2021 ANNUAL REPORT (Revision 1)

Remedial Action - Newton County Wells Site
Silver Creek and Saginaw, Missouri

Prepared for
Missouri Department of Natural Resources

On behalf of
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Joplin, Missouri

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1 INTRODUCTION

This 2021 Annual Report summarizes and documents the activities conducted by FAG Bearings, LLC (FAG Bearings) with regard to the Newton County Wells Site (NCWS) for submittal to the Missouri Department of Natural Resources (MDNR). The 2021 Annual Report was initially submitted in December 2021 and has been updated to address comments from MDNR and USEPA in a letter dated February 14, 2022. The comments with responses are provided in Appendix E.

The NCWS is located in northern Newton County in Joplin, Missouri, and is defined as the FAG Bearings property as well as portions of the aquifer beneath the Villages of Silver Creek and Saginaw, in Newton County, Missouri, where trichloroethene (TCE) and/or compounds from its ongoing degradation [primarily cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC)] have come to be located. These three parameters represent the primary compounds of concern (COCs) with respect to the NCWS. The general boundary of the NCWS based on the results from the remedial investigation are provided on Figure 1-1.

The activities described in this report were conducted during calendar year 2021 by Ramboll US Consulting, Inc. (Ramboll) on behalf of FAG Bearings and consisted primarily of completion of monitored natural attenuation (MNA) groundwater sampling of existing permanent wells and surface spring water locations which are utilized to monitor ongoing conditions with respect to the NCWS.

These activities were conducted to satisfy the requirements for implementing the MDNR-approved NCWS Remedial Action Work Plan (RAWP) dated June 2007 as revised by the MDNR-approved NCWS First and Second Amended RAWPs dated December 2015 and July 2020, respectively.

2 BACKGROUND

FAG Bearings entered into a Consent Decree with MDNR to implement the remedial action (RA) for the NCWS. The effective date of the Consent Decree was January 3, 2007. The NCWS Record of Decision (ROD) provided remedial action objectives (RAOs) and the MDNR-chosen remediation alternative, with concurrence of USEPA, consisting of:

Remedial Action Objectives

- Maintain and enforce current conditions and existing regional regulatory controls that provide protection from risk-producing exposure to the TCE and TCE degradation product impacted portions of the Mississippian Aquifer;
- Reduce the concentration of TCE and TCE degradation products in the uppermost aquifer of the NCWS to concentrations that are protective of the Mississippian Aquifer as a potable water source with respect to TCE and TCE degradation products; and
- Return the Mississippian Aquifer water quality at the NCWS to potable conditions, with respect to TCE and TCE degradation products.

Remediation Alternative

- MNA to address the uppermost groundwater and the Mississippian Aquifer.
- Implementation/enforcement of existing regional institutional controls (ICs) including:
  - Area 11 (formerly Special Area 2) as provided in the Missouri Water Well Construction Code - 10 CSR 23-3.090;
  - Monitoring usage of public water supply systems; and
  - Enforcement of prohibition on usage of impacted wells for potable purposes with subsequent connection to the public water supply system.

FAG Bearings is responsible for implementation of activities required for the MNA portion of the chosen alternative for the NCWS. As stated in the NCWS ROD, MDNR is responsible for the implementation/enforcement of the existing regional ICs (including Area 11 specified construction standards, state well plugging/abandonment rules and monitoring usage of the public water supply systems) as required by the chosen alternative.

First Five Year Period

The RAWP dated June 2007 was submitted to MDNR and USEPA by Ramboll on behalf of FAG Bearings to satisfy requirements under the governing Consent Decree and included descriptions of RA activities to be conducted for the NCWS during the first five year period.

At the conclusion of the first five year period, the First Five Year Summary Report dated August 2013 was submitted to MDNR and USEPA by Ramboll on behalf of FAG Bearings. This report presented a comprehensive analysis of the first five years of RA activities and reporting which had been conducted toward implementation of the RAWP at the NCWS.

Activities completed during this time period included:

- Abandonment of specifically identified NCWS investigative wells, northern investigative wells and residential wells; and
- Ten MNA sampling events, representing Rounds 1 through 10.

Following receipt of the First Five Year Summary Report, MDNR and USEPA completed the First Five Year Review Report for the NCWS dated April 2014 which provided a deferred protectiveness statement.

Second Five Year Period

The First Amended RAWP dated December 2015 was submitted to MDNR and USEPA by Ramboll on behalf of FAG Bearings. The First Amended RAWP addressed issues and recommendations provided in the First Five Year Review Report and provided a description of RA activities to be conducted for the NCWS during the second five year period.

At the conclusion of the second five year period, the Second Five Year Summary Report dated January 2019 was submitted to MDNR and USEPA by Ramboll on behalf of FAG Bearings. This report presented a comprehensive analysis of the second five years of RA activities and reporting which had been conducted towards implementation of the First Amended RAWP at the NCWS.

Activities completed during this time period included:

- Abandonment of specifically identified NCWS investigative wells and northern investigative wells;
- Four MNA sampling events, representing Rounds 11 through 14; and
- Four quarterly vapor intrusion air monitoring events (representing specifically identified and focused FAG Bearings facility and offsite down-gradient buildings).

Following receipt of the Second Five Year Summary Report, MDNR and USEPA completed the Second Five Year Review Report for the NCWS dated April 2019 which provided a protectiveness statement of short-term protective.

Third Five Year Period

The Second Amended RAWP for the NCWS dated July 2020 was submitted to MDNR and USEPA by Ramboll on behalf of FAG Bearings and approved in a letter from MDNR dated January 27, 2021.

Activities completed during this time period thus far consist of:

- Two MNA sampling events, representing Rounds 15 and 16 (2020 and 2021 routine annual, respectively).

The following sections of this report describe the RA activities conducted in 2021 as part of the implementation of the Second Amended RAWP at the NCWS.

3 2021 WELL INSPECTION AND MNA FIELD SAMPLING TASKS

The annual groundwater monitoring event was conducted in May 2021 which represents Round 16 of the MNA component of the NCWS RA.

All activities associated with this sampling event were conducted following the general procedures provided in the Second Amended RAWP for collection of both groundwater and surface water samples. Ongoing annual MNA sampling is planned to continue to be conducted during the first half of each calendar year as specified in the Second RAWP.

The 2021 MNA sampling conducted including inspection and any maintenance of the permanent monitoring well network are summarized below.

3.1 MONITORING WELL INSPECTION AND MAINTENANCE

Each monitoring well was visually inspected prior to sampling to confirm that the surface completions appeared to remain in sound condition. Two wells located on the FAG Bearings property were noted to have observed issues and the maintenance conducted on each is summarized as follows.

FAG-74

Uppermost groundwater well FAG-74 is located in pavement immediately to the east of the former TCE pipeline trench. The flush mount protective cover in which the well is finished and surrounding pavement were noted to have been disrupted by apparent facility traffic in this area. It was also noted that the expandable well cap had become dislodged and based on total depth measurements approximately 4.3 feet of sediment had accumulated in the base of the well.

Immediately following this observation, the well cap was replaced and facility traffic was temporarily routed around this location. Subsequently, the well was pumped and developed by surging and purging with a dedicated combination foot valve and surge block pump. A total of approximately 20 standing casing volumes of water (15 gallons) were removed from the well for redevelopment. The well purged dry several times during the redevelopment process and was allowed to recharge before surging and purging recommenced.

As redevelopment of the well progressed, the purge water was observed to become substantially clear and the final total depth measurement of this well at the conclusion of redevelopment was approximately 33.2 feet versus the recorded construction total depth of 34.8 feet. Based on the significant volume of water purged from the well, removal of much of the accumulated sediment and observed clear development water, the well was determined to be adequately redeveloped and available for sampling following the methodology provided in the RAWP.

Subsequently, a replacement traffic-rated protective cover was installed over the well and the disrupted pavement surrounding the well was replaced with reinforced concrete.

FAG-85

Uppermost groundwater well FAG-85 is located in a grass area south of the former TCE pipeline trench. As part of recent FAG Bearings facility expansion and upgrades, a stormwater retention basin was installed in a portion of this grass area. During excavation activities, the flush protective cover of the well was clipped and damaged. However, the well casing was not visibly damaged and the expandable well cap remained in place.

Total depth of this well was measured at approximately 93.7 feet versus the recorded construction total depth of 94.4 feet and subsequent bailing of the well during sampling noted a hard bottom indicating little or no silt was accumulated at the base of the well. The surface grade at the location of this well was reduced as part of construction grading activities such that an above grade protective cover with a concrete apron was installed around the existing well casing.

3.2 GROUNDWATER SAMPLE COLLECTION

3.2.1 Static Water Level Measurements

Static groundwater levels were measured on May 17, 2021, in each of the uppermost groundwater and Mississippian Aquifer monitoring wells prior to the initiation of well purging and sampling activities. Static water levels (SWLs) were measured in the 28 monitoring wells shown on Figure 3-1 (18 screened in the uppermost groundwater and 10 screened in the Mississippian Aquifer).

Monitoring wells were opened and (if necessary) allowed to equilibrate to atmospheric conditions prior to the measurement of SWLs using an electronic water level meter. The depth to SWL was measured in each well to the nearest 0.01 foot with respect to a surveyed elevation point at the top of each well casing. The water level meter probe and portions of the calibrated tape which were submerged were decontaminated prior to use and between each well following the procedures described in the RAWPs.

Static water level measurements and calculated elevations from the May 2021 sampling event are presented in Table 3-1. The uppermost groundwater and Mississippian Aquifer calculated SWL elevations are also provided in feet above mean sea level (amsl) for each well on Figures 3-2 and 3-3, respectively.

Total depth measurements were not specifically recorded from all the wells during this sampling event nor during recent routine sampling events since accumulation of silt in monitoring wells has not been observed to be an issue historically. However, total depth measurements will be collected contemporaneously with static water level measurements during each future MNA sampling event in order to provide ongoing confirmation of the total depth of each well and to compare to recorded constructed total depths.

3.2.2 Monitoring Well Purging

Each monitoring well was purged prior to sample collection to remove standing water from within the well casing in order to obtain a sample representative of the water-bearing zone.

Well purging and groundwater sample collection were performed using one of two methods; 1) a site-dedicated portable piston low-flow pump or 2) new single use polyethylene bailers. For those monitoring wells in which adequate water was present and recharge has been sufficient historically to maintain a continuous pumping rate, the piston pump was used to purge and sample the wells. If adequate water was not available in a monitoring well and/or recharge historically has not been adequate for use of the piston pump, then new bailers using new bailing cord were used to purge and sample the well.

Field-measured stabilization parameters were collected during purging and sampling activities as described in the RAWP. YSI ProQuatro multi-parameter meters were utilized to measure stabilization parameters and calibrated on a daily basis following the procedures provided in the equipment user manual. Completed summary calibration logs for this sampling event are provided in Appendix A.

The following sections describe the procedures used to purge wells with the piston pump and dedicated bailers.

3.2.2.1 Piston Pump

A total of 11 wells were purged and sampled using the site-dedicated piston pump for the 2021 MNA sampling event: Three wells screened in the uppermost groundwater (FAG-22, FAG-31 and FAG-36) and eight wells screened in the Mississippian Aquifer (FAG-AW4, FAG-05, FAG-11, RI-MW5, RI-MW6, RI-MW7, RI-MW8 and RI-MW9). Mississippian Aquifer wells FAG-88 and FAG-89 which are normally purged and sampled using the piston pump could not be accessed by the vehicle-transported pump due to heavy vegetation and muddy conditions. These two wells were alternately purged and sampled during this event using new disposable bailers and bailing cord. Methods to improve accessibility to these two wells by the vehicle-transported pump and equipment are being reviewed.

The piston pump intake was lowered to the approximate center of the screened interval of each well to be purged and sampled. If the length of the screened interval was greater than 10 feet, the pump intake was placed approximately 5 feet from the bottom of the screened interval. The water level in each well was monitored during pumping and, if possible, the pumping rate was adjusted such that the pumping rate did not exceed the well recharge rate (i.e., limited draw down of water in the well). In wells with limited recharge, care was taken to ensure that over 1 foot of water remained above the pump intake to minimize the risk of the pump suction being broken or entrainment of air in the pump and discharge tubing.

Field water quality parameters were measured continuously using a closed loop flow-through cell until stabilization of all field parameters was achieved as provided in the RAWPs. Field measurements of pH, specific conductance (SC), temperature, oxidation reduction potential (ORP) and dissolved oxygen (DO) were collected during the purging of each well to ensure that subsequent groundwater samples were representative of conditions in the monitored water bearing zone. Following stabilization and as directed in the RAWPs, specific wells were analyzed in the field using a colorimeter for the parameter ferrous iron.

Field sampling logs from this sampling event are provided in Appendix B and a summary of the final set of field measurements before sampling of each well is provided in Table 3-2.

The piston pump and tubing were decontaminated prior to use and between use at each monitoring well following the procedures described in the RAWPs. Although an equipment blank is not specifically required to be collected as part of the Quality Assurance Project Plan (QAPP), an equipment blank was collected during this event from the piston pump following decontamination and results are discussed in the data quality assessment section.

3.2.2.2 Bailer

A total of 17 monitoring wells were purged and sampled using new dedicated disposable bailers and bailing cord for the 2021 MNA sampling event: 13 wells screened in the uppermost groundwater (FAG-32, FAG-33, FAG-34, FAG-35, FAG-43, FAG-46, FAG-47, FAG-50, FAG-56, FAG-62, FAG-73, FAG-74, FAG-85, RI-MW1 and RI-MW2) and two wells screened in the Mississippian Aquifer (FAG-88 and FAG-89). As described above in Section 3.1.2.1, due to the inability to access FAG-88 and FAG-89 with the vehicle-transported piston pump during this sampling event, the two Mississippian Aquifer wells were alternately purged and sampled with dedicated bailers.

As purging of wells progressed, representative grab samples were collected on a periodic basis and field parameters (i.e., pH, SC, temperature, ORP and DO) were measured.

Wells were considered purged and ready for analytical sample collection after removal of a minimum of three times the measured casing volume, the well bailed dry and/or the field measured water quality parameters stabilized in accordance with the RAWPs. Following stabilization, specific wells were analyzed in the field using a colorimeter for the parameter ferrous iron.

Six uppermost groundwater wells (FAG-32, FAG-33, FAG-47, FAG-50, FAG-74 and RI-MW1) purged dry (i.e., insufficient recharge in the well to allow continued bailing) during this sampling event. This is similar to conditions noted during previous MNA sampling events. In all cases, sample collection was conducted once a sufficient volume of water for the required analyses recharged to the well.

Field sampling logs from this sampling event are provided in Appendix B and a summary of the final set of field measurements before sampling of each well is provided in Table 3-2.

3.2.3 Monitoring Well Sampling

After each monitoring well was determined to have been adequately purged, groundwater samples were collected for laboratory analysis. In the case of wells sampled using the piston pump, the pumping rate was the same low flow rate as had been used to purge the wells for collection of a representative sample. In the case of wells sampled using bailers, a new double-check valve bailer dedicated to each well was gently lowered into and retrieved from the water column similar to the well purging technique and a bottom-emptying device was used to produce a controlled stream of water from the bottom of the bailer.

Groundwater samples were obtained by directly filling laboratory provided sampling bottles from the bailer or piston pump discharge. Sample bottles for organic parameters were filled first followed by inorganic parameters. Quality assurance/quality control (QA/QC) samples were collected by alternately filling investigative and QA/QC sample bottles for each parameter.

A total of 28 investigative groundwater samples were collected. In addition, two field duplicate samples and two matrix spike/matrix spike duplicate samples were collected (one from an upper groundwater well and one from a Mississippian Aquifer well). All samples were placed in insulated coolers with ice and shipped under chain of custody control via overnight courier to Pace Analytical Services in Lenexa, Kansas, for analysis. Laboratory-provided trip blank samples accompanied each shipment to the laboratory.

3.3 SURFACE WATER SAMPLE COLLECTION

Surface water samples were collected at two locations for this MNA sampling event [SW-01 and RW-341A (Figure 3-1)]. Each location represents spring water produced from the Mississippian Aquifer.

Surface water sample SW-01 was collected from a pond along the eastern side of Saginaw Road near the intersection of High Street at a point where it is fed by Mississippian Aquifer springs. This sample was collected of water flowing into a culvert and to a pond on the other side of Saginaw Road. Surface water sample RW-341A was collected from Thurman Creek downstream of the Reddings Road Bridge near the western bank in a portion of the stream channel with higher flow conditions. Samples at each location were collected by submerging new dedicated sample collection containers into the water and then filling the laboratory provided sample containers (organic parameters were collected first followed by inorganic parameters).

Field water quality parameters (i.e., pH, SC, ORP, DO and temperature) were measured at the time each surface water sample was collected and no significant color/clarity nor odors were noted during sample collection. Field sampling logs are provided in Appendix B and a summary of field measurements are provided in Table 3-2.

All samples were placed in insulated coolers with ice and shipped under chain of custody control via overnight courier to Pace Analytical Services in Lenexa, Kansas for analysis.

3.4 ANALYTICAL METHODS

Consistent with the rationale for analyses as documented in the ROD for NCWS and the RAWPs, the dominant mechanisms for natural attenuation of TCE and degradation products continue to be biodegradation in the upper groundwater and hydrodynamic dispersion in the underlying Mississippian Aquifer.

Analytical methods were selected based on this rationale to monitor attenuation conditions specific to the location of individual sampling points and are summarized on Table 3-3. For identification and assessment purposes, wells have been grouped based on the geologic unit they monitor and locations relative to the identified sole source of NCWS impact – the

former TCE transfer pipeline trench located on the FAG Bearings property. Throughout the NCWS RA, wells have been grouped as follows:

Uppermost Groundwater Wells

- Northwest corner of FAG Bearings property (one well);
- Southwest of FAG Bearings Service Building and southern FAG Bearings property line (four wells);
- Village of Silver Creek (two wells);
- Adjacent to the former TCE pipeline transfer trench (six wells); and
- South of the former TCE pipeline transfer trench (four wells).

Mississippian Aquifer Wells

- On the FAG Bearings property (five wells); and
- Villages of Silver Creek and Saginaw (five wells).

These groupings are additionally provided on Figures 3-4A and 3-4B for uppermost groundwater and Mississippian Aquifer wells, respectively.

Samples were collected from the uppermost groundwater from 14 wells during this sampling event (FAG-22, FAG-31, FAG-32, FAG-33, FAG-34, FAG-35, FAG-36, FAG-47, FAG-50, FAG-56, FAG-62, FAG-73, FAG-74 and FAG-85) and analyzed for the following biodegradation parameters in accordance with the indicated laboratory methods:

- Volatile organic compounds (VOCs): SW846 5030B/8260B;
- Nitrate: EPA 353.2;
- Sulfate: EPA 300.0;
- Chloride: EPA 300.0;
- Methane: RSK 175;
- Ethane: RSK 175; and
- Ethene: RSK 175.

An additional 14 samples collected from wells screened within the uppermost groundwater (FAG-43, FAG-46, RI-MW1 and RI-MW2) and Mississippian Aquifer (FAG-AW4, FAG-05, FAG-11, FAG-88, FAG-89, RI-MW5, RI-MW6, RI-MW7, RI-MW8 and RI-MW9) were analyzed for the following hydrodynamic dispersion parameters in accordance with the indicated laboratory methods:

- VOCs: SW846 5030B/8260B; and
- Chloride: EPA 300.0.

The two spring surface water samples (SW-01 and RW-341A) were analyzed for the following hydrodynamic dispersion parameters in accordance with the indicated laboratory methods:

- VOCs: SW846 5030B/8260B; and
- Chloride: EPA 300.0.

3.5 ANALYTICAL AND FIELD-MEASURED RESULTS

A summary of analytical results for samples collected from the uppermost groundwater, Mississippian Aquifer and Mississippian Aquifer spring surface water sampling locations for this sampling event (MNA Round 16) is presented in Table 3-4. The table includes data qualifiers assigned by the laboratory or during subsequent third party data validation. The validated laboratory analytical data reports for the samples submitted for analysis from this sampling event are provided in Appendix C.

3.5.1 Uppermost Groundwater/Bedrock Interface Wells

A summary of the parameters detected in groundwater samples collected from the 18 monitoring wells screened within the uppermost groundwater is presented below.

VOC Analysis

Four VOCs were detected in more than one of the groundwater samples collected from the uppermost wells, specifically: TCE and its degradation by-products cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE) and VC. Although the parameter total dichloroethene is also provided in the laboratory reports, it merely represents the sum of trans-1,2-DCE and cis-1,2-DCE. Concentration ranges in micrograms per liter (µg/L) and the number of samples in which these four individual VOCs were detected are summarized in the following table for this sampling event:

ANALYTE	NUMBER OF DETECTIONS	DETECTED CONCENTRATION RANGE
TCE	16 of 18 samples	7.8 to 3,220 µg/L
cis-1,2-DCE	16 of 18 samples	2.0 to 248 µg/L
trans-1,2-DCE	3 of 18 samples	1.1 to 6.9 µg/L
VC	4 of 18 samples	4.2 to 37.2 µg/L

Seven of the samples from the upper groundwater required dilution by the laboratory for VOC analysis, consequently the parameters provided in the above summary table had an elevated detection limit for those wells. This includes wells; FAG-34, FAG-35 and FAG-85 (5x dilution), FAG-22, FAG-31 and FAG-36 (10x dilution) and FAG-50 (20x dilution). Although relatively lower concentration data may not be fully captured due to laboratory dilution, those compounds measured at more significant levels are still being captured and reported.

The majority of COC impact was associated with uppermost groundwater wells as summarized in the following table (with general locations of each with respect to the former TCE pipeline trench and concentrations measured during this sampling event provided):

WELL	TCE (µg/L)	CIS-1,2-DCE (µg/L)	VC (µg/L)
Adjacent to the Former TCE Transfer Pipeline Trench			
FAG-22	344	165	18.3
FAG-31	733	248	<10.0
FAG-74	201	179	18.9
South of the Former TCE Transfer Pipeline Trench			
FAG-34	462	238	<5.0
FAG-35	488	113	<5.0
FAG-36	535	240	<10.0
FAG-85	610	204	37.2
Southwest of Service Building and Southern FAG Bearings Property Line			
FAG-50	3,220	62.4	<20.0

MNA Water Quality Indicator Parameters

The field measured parameters collected and ranges at which they were measured in uppermost groundwater wells during the 2021 sampling event are summarized as follows:

- pH ranged from 5.66 to 8.61 standard units (SU) (FAG-33 and FAG-32, respectively);
- SC ranged from 0.063 to 549 microsiemens per centimeter (µS/cm) (FAG-43 and FAG-74, respectively);
- ORP ranged from -124.8 to 278.5 millivolts (mV) (FAG-73 and FAG-22, respectively);
- DO ranged from 0.46 to 8.79 milligrams per liter (mg/L) (FAG-AW4 and FAG-50, respectively);
- Ferrous Iron ranged from non-detect in FAG-56 and FAG-85 to 3.27 mg/L in well FAG-73; and
- Temperature ranged from 15.4°C to 20.8°C (FAG-50 to FAG-36, respectively).

A summary of all the final field water quality measurements prior to sampling is presented in Table 3-2.

The laboratory-measured concentration ranges and number of samples with detected concentrations in 2021 for uppermost groundwater wells are summarized in the following table:

ANALYTE	NUMBER OF DETECTIONS	DETECTED CONCENTRATION RANGE
Nitrate as N	9 of 14 samples	0.17 to 2.1 mg/L
Sulfate	14 of 14 samples	1.6 to 33.5 mg/L
Chloride	18 of 18 samples	2.3 to 25.5 mg/L
Methane	4 of 14 samples	17.1 to 1,590 µg/L

The water quality parameters ethane and ethene were not detected in any of the 14 investigative samples which were submitted for laboratory analysis.

3.5.2 Mississippian Aquifer Wells

A discussion of the parameters detected in groundwater samples collected from the ten monitoring wells screened within the deeper Mississippian Aquifer is presented below.

VOC Analysis

Three VOCs (TCE, cis-1,2-DCE and VC) were detected in at least one of the groundwater samples collected from the Mississippian Aquifer wells from the 2021 sampling event. Concentration ranges and the number of samples in which these VOCs were detected are summarized in the following table:

ANALYTE	NUMBER OF DETECTIONS	DETECTED CONCENTRATION RANGE
TCE	8 of 10 samples	2.1 to 1,150 µg/L
cis-1,2-DCE	6 of 10 samples	1.3 to 292 µg/L
VC	1 of 10 samples	24.2 µg/L

One well from the Mississippian Aquifer required dilution by the analytical laboratory for VOC analysis (FAG-AW4 had a 10x dilution); however, this did not affect the number of detections summarized in the above table since none of the compounds were non-detect due to the elevated detection limits.

The following table summarizes COC concentrations measured in Mississippian Aquifer wells from the 2021 sampling event with the general locations of each provided:

WELL	TCE (µg/L)	CIS-1,2-DCE (µg/L)	VC (µg/L)
South of the Former TCE Transfer Pipeline Trench			
FAG-AW4	1,150	292	24.2
Northwest Corner of FAG Bearings Property			
FAG-05	23.9	3.1	<1.0
FAG Bearings Southern Property Line			
FAG-88	6.5	1.6	<1.0
FAG-89	10.3	1.3	<1.0

WELL	TCE (µg/L)	CIS-1,2-DCE (µg/L)	VC (µg/L)
Offsite Wells Nearest to FAG Bearings Property			
RI-MW5	<1.0	<1.0	<1.0
RI-MW6	45.4	8.2	<1.0
RI-MW9	6.9	<1.0	<1.0
Offsite Wells Furthest from FAG Bearings Property			
RI-MW7	19.5	2.9	<1.0
RI-MW8	2.1	<1.0	<1.0

MNA Water Quality Indicator Parameters

The field measured parameters collected at the conclusion of purging and ranges at which they were measured in Mississippian Aquifer wells during the 2021 sampling event are summarized as follows:

- pH ranged from 6.92 to 7.63 SU (FAG-05 and FAG-88, respectively);
- SC ranged from 98.3 to 512 µS/cm (RI-MW5 and FAG-05, respectively);
- ORP ranged from 15.2 to 329.4 mV (RI-MW5 and FAG-05, respectively);
- DO ranged from 0.46 to 6.86 mg/L (FAG-AW4 and RI-MW8, respectively); and
- Temperature ranged from 15.1° to 21.1°C (FAG-89 and RI-MW7, respectively).

A summary of all the final field water quality measurements prior to sampling is presented in Table 3-2.

The laboratory-measured MNA parameter chloride was collected from and detected in each of the Mississippian Aquifer wells sampled with concentrations ranging from 1.5 to 33.3 mg/L (RI-MW5 and FAG-05, respectively).

3.5.3 Mississippian Aquifer Spring Surface Water Locations

A discussion of the parameters detected in the two surface water samples collected from locations slightly over 1.5 miles south of the FAG Bearings property boundary and precipitation at the time of and preceding the sampling event are presented below.

VOC Analysis

TCE was the only VOC detected in the surface water samples from the 2021 sampling event. It was measured at the laboratory reporting limit (RL) for this compound of 1.0 µg/L in RW-341A and only slightly above the RL in SW-01 (1.3 µg/L). This is generally consistent with recent historic measurements in that TCE has occasionally been detected at very low concentrations.

MNA Water Quality Indicator Parameters

The measured concentrations of field water quality parameters collected and at the two surface water sample locations for the 2021 sampling event are summarized as follows:

- pH was measured at 7.23 SU at SW-01 and 7.49 SU at RW-341A;
- SC was measured at 314.7 µS/cm at SW-01 and 377.3 µS/cm at RW-341A;
- ORP was measured at 183.5 mV at SW-01 and 134.6 mV at RW-341A;
- DO was measured at 8.93 mg/L at SW-01 and 9.31 mg/L at RW-341A; and
- temperature was measured at 14.0°C at SW-01 and 15.9°C at RW-341A.

A summary of these final field water quality measurements prior to sampling is presented in Table 3-2.

The laboratory-measured MNA parameter chloride was collected from both sampling points and measured at 8.7 mg/L in the samples from both SW-01 and RW-341A.

Precipitation

There was no observed or recorded precipitation on the day that surface water samples were collected during this sampling event (May 20, 2021). Daily precipitation totals during the ten days preceding the collection of the samples recorded at the National Weather Service station at the Joplin, Missouri Regional Airport (located approximately 9 miles north of the sampling points) are summarized in the following table.

DATE	DAILY PRECIPITATION TOTALS (inches)
5/11/21	0.08
5/12/21	0.00
5/13/21	0.00
5/14/21	0.00
5/15/21	0.00
5/16/21	0.40
5/17/21	1.21
5/18/21	0.01
5/19/21	0.04

A total of 1.89 inches of precipitation was recorded during the ten days preceding the collection of the surface water samples during the 2021 sampling event with the most significant daily total of 1.21 inches recorded three days prior to sample collection. As noted above, there was no precipitation observed or recorded during the day when samples were collected.

During the 2020 annual sampling event, there was no recorded precipitation on the day that surface water samples were collected and a total of 0.21 inches of precipitation was

recorded during the ten days preceding the collection of surface water samples with the most significant daily total of 0.13 inches recorded seven days prior to sample collection.

Analytical results for VOCs from surface water samples were very comparable between the 2021 and 2020 sampling event with only the compound TCE detected in any of the samples submitted. TCE was measured in RW-341A at its reporting limit of 1 µg/L in 2021 while it was not measured above its reporting limit in 2020 and was measured in SW-01 at 1.3 µg/L in 2021 and at 1.2 µg/L in 2020. As previously noted, these concentration levels are comparable to recent historic measurements. The differences in total precipitation preceding the 2021 and 2020 sampling events do not appear to have resulted in any significant variation in measured concentrations of TCE.

Precipitation will continue to be reviewed and assessed during future routine sampling events.

3.6 DATA QUALITY ASSESSMENT

All field and analytical data were reviewed by Ramboll, as required by the QAPP. Validation findings are summarized below. Any necessary validation reports created are maintained in the project file in the Ramboll St. Louis, Missouri, office.

3.6.1 Field Data

Field data were collected and validated according to the RAWPs, QAPP and associated standard operating procedures (SOPs). The field data and documentation were evaluated against the following criteria, as appropriate:

- Samples were collected (as possible) at the specified locations identified in the RAWPs, Newton County Wells Site, Silver Creek and Saginaw, Missouri;
- Field instrumentation calibration and QA/QC checks on equipment occurred at the intervals specified in the QAPP. Completed calibration logs from this sampling event are provided in Appendix A; and
- Sample documentation protocol and chain-of-custody protocols in the RAWPs were followed. One trip blank sample (TB-02-052021) was recorded in error on a chain of custody form. This trip blank was duplicative and unnecessary and was not actually included in the sample shipment.

3.6.2 Laboratory Analytical Data

In accordance with the Amended RAWPs, all VOC analytical results and associated laboratory data (SW846 5030B/8260B) received Stage 2A data validation by Environmental Standards, Inc. (ESI), an independent data validation firm.

During the validation process, data qualifiers assigned by the analytical laboratory were reviewed by ESI and additional data validation qualifiers were assigned to the results by ESI, as necessary. These qualifiers indicate potential limitations on use of the data. In addition, data qualifier codes and bias codes were added to the results to indicate the reason(s) for qualification and the associated bias direction, if discernible. The laboratory

qualifiers and ESI quality assurance review and validation qualifiers are included with the analytical reports package provided in Appendix C.

An equipment blank sample (EB-01-051921) was collected following decontamination of the site dedicated piston pump using laboratory supplied deionized water. The laboratory analytical results did not indicate any cross-contamination of the sampling equipment tested.

The following sections provide a summary of the validation results.

General Usability Assessment

The data quality for VOCs was generally acceptable and the analytical data generated continues to be adequate for determining NCWS conditions. During this MNA sampling event results for one specific volatile organic parameter were qualified as estimated with RLs potentially higher than reported due to associated low laboratory control sample recoveries. This single qualified parameter did not include any NCWS COCs.

The overall quality of analytical data is inferred from the quantitative and qualitative data quality indicators of RLs, accuracy, precision, completeness, representativeness and comparability. A general overall assessment of each of the data quality assurance objectives is provided in the following:

- RLs: During the sampling event, the minimum RLs required were attained on undiluted samples. Elevated target analyte concentrations necessitated dilutions for several samples. In such instances, the reviewer selected the result for each target analyte, corresponding to the analysis run with the least dilution. All other analytes were reported from the undiluted analysis. The laboratory only reported results at concentrations above RLs as specified in the QAPP. Although not specifically required by the QAPP, method detection limits (MDLs) for VOCs will be requested to be additionally provided in analytical reports during future MNA sampling events.
- Accuracy: Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recovery of laboratory control samples (LCSs), matrix spike/matrix spike duplicates (MS/MSDs) and surrogates.
- Surrogate spike recoveries, MSD and LCS results for COCs satisfied the applicable evaluation criteria for accuracy. However, low MS/MSD recoveries for one compound (hexachloro-1,3-butadiene) was outside the acceptable recovery range in one well. The RL for this compound may be higher than reported for that specific well as noted on the laboratory report.
- Precision: Precision is a measure of repeatability. The MS/MSD results for VOCs and the field duplicate relative percent difference (RPD) results satisfied applicable precision criteria. As such, the overall level of precision demonstrated is considered to be acceptable.
- Completeness: Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements to planned

measurements. All data are considered usable as qualified. As such, the completeness for the 2021 sampling event is 100%, which meets the QAPP-listed completeness requirement of 90% or greater.

- Representativeness: Representativeness is a qualitative parameter which expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point or an environmental condition. The agreement between the field duplicate results was used to assess representativeness. The duplicate results from the 2021 sampling event indicate general agreement and the samples collected are adequately representative of the medium sampled.
- Comparability: In essence, comparability was maintained by consistency in sampling conditions, selection of sampling procedures, sample preservation methods, analytical methods and data reporting units.

4 DISCUSSION OF RESULTS

This section provides a discussion of the static water levels as well as the laboratory analytical and field-measured results from samples collected in the two water bearing units and down-gradient surface water locations. Data from the 2021 monitoring event, as well as previously collected sample data have been used to evaluate COC concentration trends and attenuation.

4.1 GROUNDWATER LEVELS

A summary of static water level measurements and calculated elevations from the 2021 sampling event are provided in Table 3-1. Following is a discussion of the results for the two water-bearing units.

4.1.1 Uppermost Groundwater

SWLs ranged from approximately 16.7 feet below ground surface (bgs) in FAG-73 located adjacent to the former TCE pipeline trench to 50.7 feet bgs in FAG-47 located on the FAG Bearings property southwest of the Service Building. Groundwater elevations ranged from approximately 1,036.54 feet amsl in FAG-73 located on the FAG Bearings property adjacent to the former TCE pipeline trench to 994.59 feet amsl in FAG-47 located on the FAG Bearings property southwest of the Service Building. Groundwater elevations calculated for uppermost groundwater wells are provided on Figure 3-2.

These relative measurements are generally consistent with uppermost groundwater levels from previous sampling events and are indicative of ongoing consistent groundwater flow patterns with respect to the NCWS.

4.1.2 Mississippian Aquifer

SWLs on FAG Bearings property ranged from approximately 36.9 to 44.8 feet bgs (FAG-05 and FAG-11, respectively). This does not include the SWL measured in angled well FAG-AW4. SWLs south of the FAG Bearings property in the Villages of Silver Creek and Saginaw ranged from approximately 3.6 to 86.2 feet bgs (RI-MW-8 and RI-MW-7, respectively). Groundwater elevations ranged from 1,000.59 feet amsl in FAG-05 in the northwestern portion of the FAG Bearings property to a low of approximately 935.05 feet amsl in RI-MW8 near the intersection of Saginaw Road and South Duquesne Road in the Village of Saginaw at the southernmost boundary of the NCWS. Groundwater elevations calculated for Mississippian Aquifer wells are provided on Figure 3-3.

These relative measurements are generally consistent with Mississippian Aquifer groundwater levels from previous sampling events and are indicative of ongoing consistent groundwater flow patterns with respect to the NCWS.

4.2 COC TEMPORAL TREND ANALYSIS

Ramboll utilizes the Mann-Kendall non-parametric test (Gilbert 1987) to determine temporal trends of the measured concentrations of COCs in the water samples collected. This test evaluates whether values tend to increase or decrease over time through essentially a

monotonic trend regression analysis based on the idea that a lack of trend would fluctuate randomly about a constant mean level with no apparent upward or downward pattern.

Because Mann-Kendall is a non-parametric test, it is not dependent upon the magnitude of data, distribution of the data (does not have to have a normal distribution), missing data from a particular sampling event nor spacing of monitoring events. Mann-Kendall assesses whether a time-ordered data set exhibits an increasing or decreasing trend, at a predetermined level of significance.

Ramboll had been utilizing the 3-tiered monitoring optimization (3TMO) software tool to implement the Mann-Kendall tests and calculate temporal trends. However, the 3TMO tool is not being updated to run on modern software and is no longer being supported. In order to provide consistent trend analyses moving forward, Ramboll has transitioned to a Python software tool to calculate temporal trends using the same Mann-Kendall non-parametric test calculations which had been run by 3TMO. Datasets from previous reports were analyzed through the new tool and validated that the trend results are the same as those returned by 3TMO.

The input dataset used for calculation consists of the tabulated concentrations of the COCs (TCE, cis-1,2-DCE and VC) for each individual well in chronological order. Mann-Kendall statistical analysis is then performed on each well using these concentrations via the python tool, resulting in a temporal trend for each COC for each individual well. The temporal trends for each constituent per well are tabulated and returned as an output file.

The applicable outcomes of the temporal trend analysis performed are as follows:

- Increasing: Statistically significant increasing trend for concentrations (>95% confidence);
- Probably Increasing: Statistically significant increasing trend for concentrations (90-95% confidence);
- Stable: No statistically significant trend for concentrations along with low variability for results (Coefficient of Variance <1);
- No Trend: No statistically significant trend for concentrations along with high variability for results (Coefficient of Variance >1);
- Probably Decreasing: Statistically significant decreasing trend for concentrations (90-95% confidence);
- Decreasing: Statistically significant decreasing trend for concentrations (>95% confidence); and
- Not Detected (ND): Constituent has not been detected during the time period analyzed.

Following are summaries of the temporal trend analyses conducted for the two monitored groundwater units. The temporal trend analyses are provided for two time-frames, specifically:

- The full MNA data set for each well which commences with the 2008 sampling event. The input data set and output from this analysis are provided in Appendix D-1; and

- Recent MNA data set for each well from the eight most recent sampling events. The input data set and output from this analysis are provided in Appendix D-2.

The full MNA data set provides a summary of trends subsequent to the successful implementation of in-situ chemical oxidation (ISCO) of the identified source of impact, the former TCE pipeline trench. The smaller data set provides a review of results from a more recent time-horizon.

As described, a Python software tool is being used to calculate Mann-Kendall temporal trends and results. Temporal trends using the recent MNA data set were additionally calculated using Mann-Kendall independently configured using the Wolfram Mathematica software system in order to provide confirmation of the Python determined temporal trends. The temporal trends determined using Python and Mathematica were in alignment.

4.2.1 Full MNA Data Set

Analyses conducted of the full groundwater data set through the most recent 2021 sampling event are detailed in the following sections for uppermost groundwater and Mississippian Aquifer wells.

4.2.2 Uppermost Groundwater/Bedrock Interface Wells

The outcomes of the temporal trend analysis for COCs from the full MNA data set of uppermost groundwater wells, the relative locations of the wells and the total number of samples included for the analysis are provided in the following table:

SAMPLE LOCATION	NUMBER OF SAMPLES	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
Northwest Corner of FAG Bearings Property				
FAG-43	16	Decreasing	Decreasing	ND
Adjacent to Former TCE Transfer Pipeline Trench				
FAG-22	16	Stable	Decreasing	Decreasing
FAG-56	16	Stable	Stable	ND
FAG-31	16	Stable	Increasing	Stable
FAG-32	16	Stable	Stable	ND
FAG-73	16	Decreasing	Decreasing	Decreasing
FAG-74	16	Decreasing	Decreasing	Decreasing
South of Former TCE Transfer Pipeline Trench				
FAG-33	16	Increasing	Increasing	ND
FAG-34	16	Decreasing	Decreasing	Decreasing
FAG-35	16	Stable	Probably Decreasing	ND
FAG-36	16	Increasing	Increasing	ND

SAMPLE LOCATION	NUMBER OF SAMPLES	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
FAG-85	16	Stable	Stable	No Trend
Southwest of Facility Buildings and Near Southern FAG Bearings Property Line				
FAG-46	16	Decreasing	Decreasing	ND
FAG-47	16	Decreasing	Decreasing	ND
FAG-50	12	Stable	Stable	ND
FAG-62	13	Decreasing	No Trend	ND
Village of Silver Creek				
RI-MW1	16	Stable	Stable	ND
RI-MW2	16	ND	ND	ND

The majority of COCs detected have decreasing/probably decreasing temporal trends since MNA sampling commenced. A summary of the 54 potential outcomes of the temporal trend analysis (18 wells and three COCs) is as follows:

- Fourteen non-detect outcomes (predominately VC) or 26% of the potential outcomes;
- Two no trend outcome or 4% of the potential outcomes (5% excluding non-detect outcomes);
- Nineteen probably decreasing/decreasing trend outcomes or 37% of the potential outcomes (48% excluding non-detect outcomes);
- Fourteen stable trend outcomes or 27% of the potential outcomes (35% excluding non-detect outcomes); and
- Five probably increasing/increasing trend outcomes or 10% of the potential outcomes (12% excluding non-detect outcomes); these consist of two for TCE and three for cis-1,2-DCE.

Of the 11 wells located adjacent to or south of the former pipeline trench, two showed an increasing trend for TCE (FAG-33 and FAG-36, both located south of the former pipeline trench) and three showed an increasing trend for cis-1,2-DCE (FAG-31, located adjacent to the former pipeline trench and FAG-33 and FAG-36, located south of the former pipeline trench). These were the only wells and COCs with increasing/probably increasing trends in the uppermost groundwater wells.

Measured Concentration Changes Over Time

In addition to considering statistical temporal trends of MNA sampling, the general change in measured concentrations of TCE over time have also been reviewed. For this analysis, the maximum historic concentrations of TCE (prior to 2008) were compared to concentrations from the 2021 sampling event and the percentage change in the concentration was calculated. The percentage change in the uppermost groundwater wells were calculated for

specific areas based on their relative locations with respect to the former trench and are summarized as follows:

- Wells located adjacent to former pipeline trench; 90% overall decrease in TCE;
- Wells located south of the former pipeline trench; 42% overall decrease in TCE;
- Wells located southwest of service building and near FAG Bearings southern property line; 75% overall decrease in TCE; and
- Wells located in the Village of Silver Creek; 39% overall increase in TCE.

Significant overall percentage decreases in measured concentrations of TCE in upper groundwater has occurred since sampling commenced at the NCWS except in the Village of Silver Creek. Decreases have been most significant for wells associated with measuring conditions relative to the former TCE pipeline trench source which was subjected to significant remediation by ISCO.

FAG-32 was noted to have a significant decrease in TCE between the 2018 and 2020 sampling events (1,920 and <1.0 ug/L, respectively) while the 2021 TCE level was 183 ug/L. A specific reason for this recent decrease is not clear; however, this well did have relatively low concentrations of TCE measured prior to 2008. The ongoing level of TCE will continue to be tracked during future MNA sampling events.

4.2.3 Mississippian Aquifer Wells

The outcomes of the temporal trend analysis for COCs from the full MNA data set of Mississippian Aquifer wells, the relative locations of the wells and the total number of samples included in the analysis are provided in the following table:

SAMPLE LOCATION	NUMBER OF SAMPLES	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
FAG Bearings Property				
FAG-AW4	16	Stable	Increasing	Increasing
FAG-05	16	Decreasing	Decreasing	ND
FAG-11	16	Decreasing	Decreasing	ND
FAG-88	16	Decreasing	Decreasing	ND
FAG-89	16	Stable	Stable	ND
South of FAG Bearings Property (Villages of Silver Creek and Saginaw)				
RI-MW5	16	Stable	Stable	ND
RI-MW6	16	Decreasing	Stable	ND
RI-MW7	16	Increasing	Increasing	ND
RI-MW8	16	Decreasing	ND	ND
RI-MW9	16	Decreasing	Decreasing	ND

The majority of COCs detected have decreasing temporal trends since MNA sampling commenced. A summary of the 30 potential outcomes of the temporal trend analysis (10 wells and three COCs) is as follows:

- Ten non-detect outcomes (predominately VC) or 33% of potential outcomes.
- Ten decreasing trend outcomes or 33% of potential outcomes (50% excluding non-detect outcomes).
- Six stable trend outcomes or 20% of potential outcomes (30% excluding non-detect outcomes).
- Four increasing trend outcomes or 13% of potential outcomes (20% excluding non-detect outcomes. These consist of one for TCE, two for cis-1,2-DCE and one for VC.

Of the five wells located on the FAG Bearings property, none of the wells had an increasing trend for TCE and only one well had an increasing trend for 1,2-DCE and VC (FAG-AW4). Of the five wells located south of the FAG Bearings property, only one had an increasing trend for TCE or 1,2-DCE (RI-MW-7) and all of the wells were non-detect for VC.

Measured Concentration Changes Over Time

In addition to considering statistical temporal trends of MNA sampling, the general change in measured concentrations of TCE over time have also been reviewed. For this analysis, the maximum historic concentrations of TCE (prior to 2008) were compared to concentrations from the 2021 sampling event and the percentage change in the concentration was calculated. The percentage change in the Mississippian Aquifer wells were calculated for specific areas based on their relative locations with respect to the FAG Bearings property and are summarized as follows:

- Wells located on the FAG Bearings Property; 10% overall decrease in TCE; and
- Wells located off the FAG Bearings Property in the Villages of Silver Creek and Saginaw; 71% overall decrease in TCE.

An overall percentage decrease in measured concentrations of TCE in Mississippian Aquifer wells has occurred since sampling commenced at the NCWS, with the most significant decrease beyond the FAG property.

4.2.4 Mississippian Aquifer Spring Surface Water Locations

The outcomes of temporal trend analysis for COCs at the two surface water spring locations from the full MNA data set are provided in the following table:

SAMPLE LOCATION	NUMBER OF SAMPLES	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
SW-01	16	Stable	ND	ND
RW-341A	16	Stable	ND	ND

Of the three COCs, two (cis-1,2-DCE and VC) remain non-detect in each surface water spring location and the remaining COC (TCE) has a stable trend in each. The Mississippian Aquifer serves as the primary source for perennial water flow for these surface water sampling locations.

The only COC detected during the 2021 sampling event was TCE measured at a concentration of 1.2 µg/L in SW-01 and 1.0 µg/L in RW-341A which matches or only slightly exceeds the laboratory RL of 1 µg/L and remains below the goal concentration for its Mississippian Aquifer source of 5 µg/L.

Measured Concentration Changes Over Time

In addition to considering statistical temporal trends of MNA sampling, the general change in measured concentration of TCE over time has also been reviewed. For this analysis the maximum historic concentrations of TCE (prior to 2008) were compared to concentrations from the 2021 sampling event and the percentage change in the concentration was calculated. An 85% overall percentage decrease in TCE was calculated for the Mississippian Aquifer sourced spring water locations.

4.2.5 Recent MNA Data Set

Analyses conducted of relatively recent groundwater data, in this case consisting of the eight most recent analytical results up to and including the 2021 sampling event, are detailed in the following sections for uppermost groundwater and Mississippian Aquifer wells and surface spring water locations.

4.2.6 Uppermost Groundwater/Bedrock Interface Wells

The outcomes of the temporal trend analysis for COCs utilizing the eight most recent MNA sampling results of uppermost groundwater wells, the relative locations of the wells and the date range represented by the data sets are provided in the following table:

SAMPLE LOCATION	DATE RANGE	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
Northwest Corner of FAG Bearings Property				
FAG-43	10-12 to 5-21	No Trend	No Trend	ND
Adjacent to Former TCE Transfer Pipeline Trench				
FAG-22	10-12 to 5-21	Probably Decreasing	Decreasing	Stable
FAG-56	10-12 to 5-21	Stable	Probably Decreasing	ND
FAG-31	10-12 to 5-21	Stable	Stable	ND
FAG-32	10-12 to 5-21	Stable	Probably Decreasing	ND
FAG-73	10-12 to 5-21	Stable	Decreasing	Decreasing
FAG-74	10-12 to 5-21	Probably Decreasing	Decreasing	Decreasing

SAMPLE LOCATION	DATE RANGE	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
South of Former TCE Transfer Pipeline Trench				
FAG-33	10-12 to 5-21	Stable	Increasing	ND
FAG-34	10-12 to 5-21	Decreasing	Decreasing	Stable
FAG-35	10-12 to 5-21	Stable	Stable	ND
FAG-36	10-12 to 5-21	Stable	Stable	ND
FAG-85	10-12 to 5-21	Stable	Stable	Probably Increasing
Southwest of Facility Buildings and Near Southern FAG Bearings Property Line				
FAG-46	10-12 to 5-21	Decreasing	Stable	ND
FAG-47	10-12 to 5-21	Probably Decreasing	Stable	ND
FAG-50	4-11 to 5-21	Increasing	Increasing	ND
FAG-62	4-11 to 5-21	Probably Decreasing	No Trend	ND
Village of Silver Creek				
RI-MW1	10-12 to 5-21	Stable	Stable	ND
RI-MW2	10-12 to 5-21	ND	ND	ND

Temporal trends calculated utilizing the eight most recent data points for each well result in the majority of detected COCs being identified as stable. A summary of the 54 potential outcomes of the temporal trend analysis (18 wells and three COCs) is as follows:

- Fifteen non-detect outcomes (predominately VC) or 28% of the potential outcomes;
- Three no trend outcome or 6% of the potential outcomes (8% excluding non-detect outcomes);
- Fourteen probably decreasing/decreasing trend outcomes or 26% of the potential outcomes (36% excluding non-detect outcomes);
- Eighteen stable trend outcomes or 33% of the potential outcomes (46% excluding non-detect outcomes); and
- Four probably increasing or increasing trend outcomes or 7% of the potential outcomes (10% excluding non-detect outcomes); these consist of one for TCE, two for cis-1,2-DCE and one for VC.

Of the 11 wells located adjacent to or south of the former pipeline trench, none showed an increasing trend for TCE, one showed an increasing trend for cis-1,2-DCE (FAG-33) and one showed a probably increasing trend for VC (FAG-85).

The remaining two increasing trends were associated with FAG-50 which is located southwest of the facility buildings. This well showed increasing trends in both TCE and cis-1,2-DCE.

Measured Concentration Changes Over Time

In addition to considering statistical temporal trends of MNA sampling, the general change in measured concentrations of TCE over time have also been reviewed. For this analysis, the historic concentrations of TCE in the data set of each well representing eight sampling events prior to 2021 were compared to concentrations from the 2021 sampling event and the percentage change in the concentration was calculated. The percentage change in the uppermost groundwater wells were calculated for specific areas based on their relative locations with respect to the former trench and are summarized as follows:

- Wells located adjacent to former pipeline trench; 70% overall decrease in TCE;
- Wells located south of the former pipeline trench; 15% overall decrease in TCE;
- Wells located southwest of service building and near FAG Bearings southern property line; 148% overall increase in TCE; and
- Wells located in the Village of Silver Creek; 24% overall increase in TCE.

Overall percentage decreases in measured concentrations of TCE in upper groundwater wells have occurred at the NCWS, with the exception of the wells monitoring conditions southwest of the service building and near the FAG Bearings southern property boundary.

4.2.7 Mississippian Aquifer Wells

The outcomes of the temporal trend analysis for COCs utilizing the eight most recent MNA sampling results of Mississippian Aquifer wells, the relative locations of the wells and the date range represented by the data sets are provided in the following table:

SAMPLE LOCATION	DATE RANGE	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
FAG Bearings Property				
FAG-AW4	10-12 to 5-21	Probably Increasing	Probably Increasing	Increasing
FAG-05	10-12 to 5-21	Probably Decreasing	Probably Decreasing	ND
FAG-11	10-12 to 5-21	Decreasing	Decreasing	ND
FAG-88	10-12 to 5-21	Stable	Decreasing	ND
FAG-89	10-12 to 5-21	Stable	Stable	ND
South of FAG Bearings Property (Villages of Silver Creek and Saginaw)				
RI-MW5	10-12 to 5-21	Stable	ND	ND
RI-MW6	10-12 to 5-21	Probably Increasing	Probably Increasing	ND
RI-MW7	10-12 to 5-21	Stable	Stable	ND
RI-MW8	10-12 to 5-21	Decreasing	ND	ND
RI-MW9	10-12 to 5-21	Decreasing	Stable	ND

The majority of COCs detected have decreasing or stable temporal trends over the duration of the eight most recent MNA sampling events. A summary of the 30 potential outcomes of the temporal trend analysis (10 wells and three COCs) is as follows:

- Eleven non-detect outcomes (predominately VC) or 37% of potential outcomes;
- Seven probably decreasing/decreasing trend outcomes or 23% of potential outcomes (37% excluding non-detect outcomes);
- Seven stable trend outcomes or 23% of potential outcomes (37% excluding non-detect outcomes); and
- Five probably increasing/increasing trend outcomes or 17% of potential outcomes (26% excluding non-detect outcomes). These consist of two probably increasing for TCE and cis-DCE (FAG-AW4 and RI-MW6), and one increasing for VC (FAG-AW4).

Measured Concentration Changes Over Time

In addition to considering statistical temporal trends of MNA sampling, the general change in measured concentrations of TCE over time have also been reviewed. For this analysis, the historic concentrations of TCE in the data set of each well representing eight sampling events prior to 2021 were compared to concentrations from the 2021 sampling event and the percentage change in the concentration was calculated. The percentage change in the Mississippian Aquifer wells relative to their locations with respect to the FAG Bearings property are summarized as follows:

- Wells located on the FAG Bearings Property; 21% overall increase in TCE; and
- Wells located off the FAG Bearings Property in the Villages of Silver Creek and Saginaw; 20% overall decrease in TCE.

Overall decreases in measured concentrations of TCE in Mississippian Aquifer wells beyond the FAG Bearings property boundary have occurred while overall increases have occurred in the Mississippian Aquifer wells on the FAG Bearings property.

4.2.8 Mississippian Aquifer Spring Surface Water Locations

The outcomes of temporal trend analysis for COCs utilizing the eight most recent MNA sampling results at the two surface water spring locations and the date range represented by the data are provided in the following table:

SAMPLE LOCATION	DATE RANGE	TEMPORAL TREND		
		TCE	CIS-1,2-DCE	VC
SW-01	10-12 to 5-21	Stable	ND	ND
RW-341A	10-12 to 5-21	Stable	ND	ND

TCE has a stable temporal trend at each surface water spring location during this time-frame at concentrations that have been either non-detect or below the goal concentration for the Mississippian Aquifer while cis-1,2-DCE and VC remain non-detect. The Mississippian

Aquifer serves as the primary source for perennial water flow for these surface water sampling locations.

Measured Concentration Changes Over Time

In addition to considering statistical temporal trends of MNA sampling, the general change in measured concentrations of TCE over time have also been reviewed. For this analysis, the historic concentrations of TCE in the data set of each surface spring water location representing the eighth most recent sampling event were compared to concentrations from the 2021 sampling event and the percentage change in the concentration was calculated. A 10% overall percentage increase in TCE was calculated for the Mississippian Aquifer sourced spring water locations. It should be noted that concentrations at both locations have been either non-detect or below the goal concentration of the Mississippian Aquifer throughout this same time-frame.

4.3 MNA WATER QUALITY INDICATOR ANALYSIS

The dominant mechanism for natural attenuation of TCE is biodegradation in the uppermost groundwater in the immediate and vicinity of the former TCE pipeline trench source is biodegradation. The dominant mechanism for natural attenuation in uppermost groundwater relatively distant from the former TCE pipeline trench source and in the deeper Mississippian Aquifer is hydrodynamic dispersion.

Measurement of MNA water quality indicator parameters in uppermost groundwater wells located adjacent or in near proximity to the former TCE pipeline trench included certain biodegradation geochemical indicator parameters while uppermost groundwater wells beyond the former trench and the Mississippian Aquifer wells and spring surface water were sampled for an abbreviated list of geochemical parameters since hydrodynamic dispersion is the dominant natural attenuation mechanism. Summaries of the MNA parameter results is provided in the following sections based on the groundwater unit measured and the dominant natural attenuation process.

4.3.1 Uppermost Groundwater Wells

The MNA sampling event conducted in 2021 included 14 uppermost groundwater wells that were sampled for biodegradation parameters, (including six adjacent to the former pipeline trench, five located south of the pipeline trench, and three to the southwest of the former pipeline trench) and four sampled relative to hydrodynamic dispersion parameters.

All of the wells had field-measured well stabilization parameters recorded and the laboratory-measured parameter chloride collected while the wells most subject to biodegradation were additionally sampled for the field-measured parameter ferrous iron and the laboratory-measured parameters nitrate, sulfate, methane, ethane and ethene. Following is a summary review of the results of the field and laboratory-measured indicator parameters based on the locations of the wells relative to the former TCE pipeline trench.

Adjacent to Former Pipeline Trench (Biodegradation)

The six uppermost groundwater wells located most immediately adjacent to the former TCE pipeline trench and sampled in 2021 are FAG-22, FAG-31, FAG-32, FAG-56, FAG-73 and FAG-74.

Field-Measured Parameters

- pH was relatively neutral and ranged from 6.53 (FAG-56) to 7.14 (FAG-31 and FAG-74). A slightly elevated pH (8.61) was measured at FAG-32; however, this is less than the apparently anomalously high measurement (11.33) measured in this well during the 2020 sampling event. Neutral pH conditions are more conducive for biodegradation activities to take place.
- DO ranged from 0.64 to 6.87 mg/L (FAG-31 and FAG-74, respectively). Lower DO measurement were associated with those wells in which a closed loop flow through cell was utilized for field measurements as compared to those in which one was not used due to the purging methodology. DO levels below approximately 0.5 mg/L are more indicative of anaerobic conditions in which reductive dechlorination processes occur.
- ORP ranged from -124.8 to 278.5 mV (FAG-73 and FAG-22, respectively). Lower levels of ORP (particularly negative values) are indicative of more active biodegradation.
- Ferrous Iron ranged from 0.0 to 3.27 mg/L (FAG-56 and FAG-73, respectively). Levels above 1 mg/L are indicative of more active biodegradation processes.

Laboratory-Measured Parameters

- Nitrate remained below 1 mg/L and ranged from <0.1 to 0.87 mg/L (FAG-73/FAG-74 and FAG-31, respectively) with the exception of FAG-22 which was measured at 2.1 mg/L. It has been noted that FAG-22 typically has slightly higher nitrate measurements than the other wells in this grouping. Levels below 1 mg/L are indicative of ongoing denitrification degradation.
- Sulfate remained below 20 mg/L and ranged from 9.4 to 18.2 mg/L (FAG-31/FAG-73 and FAG-74, respectively) with the exception of FAG-56 measured at 33.5 mg/L. It has been noted that FAG-56 typically has slightly higher sulfate measurements than the other wells in this grouping. Levels below 20 mg/L are indicative of biodegradation reducing conditions.
- Chloride was relatively elevated compared to an assumed background level of approximately 2 mg/L and ranged from 8.3 to 25.5 mg/L (FAG-32 and FAG-74, respectively) while FAG-31 was measured slightly lower at a concentration of 4.5 mg/L. Elevated concentrations of chloride are indicative of active biodegradation.
- Methane remained below its RL of 10 µg/L with the exception of FAG-22, FAG-73 and FAG-74 which were measured at 17.1, 207 and 901 µg/L, respectively. Elevated concentrations of methane are indicative of active biodegradation. Methane concentrations above 500 µg/L not only indicate very active biodegradation, but also the consequent production and potential accumulation of the end stage degradation compound VC. In recent MNA sampling events, FAG-73 generally has approached

this level and FAG-74 has generally exceeded this level and during this sampling event they both had detectable concentrations of VC at relatively low concentrations (4.2 and 18.9 µg/L, respectively).

- Ethane and Ethene remained below their RLs of 10 µg/L in the wells sampled. These parameters are subject to very rapid biodegradation and their relative absence as indicator compounds is not uncommon.

South of Former Pipeline Trench (Biodegradation)

The five uppermost groundwater wells located south of the former pipeline trench and sampled for biodegradation parameters in 2021 are FAG-33, FAG-34, FAG-35, FAG-36 and FAG-85. These wells are located approximately 200 feet south of the former pipeline trench to monitor uppermost groundwater primarily in a channelized bedrock depression.

Field-Measured Parameters

- pH was relatively neutral and ranged from 6.66 to 7.06 (FAG-36 and FAG-85, respectively). A slightly low pH (5.66) was measured in FAG-33 which generally has slightly lower pH measurements relative to this grouping of wells. Neutral pH is more conducive for biodegradation activities to take place.
- DO ranged from 2.22 to 5.26 mg/L (FAG-85 and FAG-35, respectively). These levels are slightly elevated compared to those measured during recent MNA sampling events. Levels below approximately 0.5 mg/L are more indicative of anaerobic conditions in which reductive dechlorination processes occur.
- ORP was relatively elevated and ranged from 133 to 245.4 mV (FAG-35 and FAG-36, respectively) with the exception of FAG-85 which was measured at -106.9.5 mV. Lower levels of ORP (particularly negative values) are indicative of more active biodegradation.
- Ferrous Iron ranged from 0.00 to 0.76 mg/L (FAG-85 and FAG-33, respectively). Due to potential for interference by color in the sample from FAG-35, this parameter was not measured in this well during this sampling event. Levels above 1 mg/L are indicative of more active biodegradation processes.

Laboratory-Measured Parameters

- Nitrate remained below 1 mg/L and ranged from <0.1 to 0.7 mg/L (FAG-33/FAG-36 and FAG-34, respectively) with the exception of FAG-35 which was measured at 1.3 mg/L. Levels below 1 mg/L are indicative of ongoing denitrification degradation.
- Sulfate ranged from 1.6 to 16.0 mg/L (FAG-33 and FAG-85, respectively). Levels below 20 mg/L are indicative of biodegradation reducing conditions.
- Chloride was generally elevated as compared to an assumed background of approximately 2 mg/L and ranged from 10.7 to 14.6 mg/L (FAG-36 and FAG-33, respectively). Elevated concentrations of chloride are indicative of active biodegradation.
- Methane remained below its RL of 10 µg/L with the exception of FAG-85 which was measured at 1,590 µg/L. Elevated concentrations of methane are indicative of active

biodegradation. Although methane is often detected in FAG-85, this measured concentration is significantly elevated as compared to results from recent MNA sampling events. Concentrations in FAG-85 will be tracked in future sampling events to determine ongoing levels. The end stage biodegradation compound VC was measured at 37.2 µg/L which is the highest level measured in this well since monitoring commenced.

- Ethane and Ethene remained below their RLs of 10 µg/L in the wells sampled. These parameters are subject to very rapid biodegradation and their relative absence as indicator compounds is not uncommon.

Southwest of Service Building (Biodegradation)

The three uppermost groundwater wells located southwest of the Service Building and sampled for biodegradation parameters in 2021 are FAG-47, FAG-50 and FAG-62. These wells are located from approximately 500 up to 750 feet southwest of the former pipeline trench (FAG-62 and FAG-47, respectively).

Field-Measured Parameters

- pH was relatively neutral and ranged from 6.77 to 6.87 (FAG-62 and FAG-47, respectively). Neutral pH is more conducive for biodegradation activities to take place.
- DO ranged from 3.37 to 8.79 mg/L (FAG-62 and FAG-50, respectively). These levels are elevated compared to those measured during recent MNA sampling events. Levels below approximately 0.5 mg/L are more indicative of anaerobic conditions in which reductive dechlorination processes occur.
- ORP ranged from 52.5 to 89.2 mV (FAG-62 and FAG-47, respectively) which are slightly less than those measured during recent MNA sampling events. Lower levels of ORP (particularly negative values) are indicative of more active biodegradation.
- Ferrous Iron ranged from 0.0 to 0.6 mg/L (FAG-50 and FAG-47, respectively) and are generally similar to those measured during recent MNA sampling events. Levels above 1 mg/L are indicative of more active biodegradation processes.

Laboratory-Measured Parameters

- Nitrate remained below 1 mg/L and ranged from <0.1 to 0.25 mg/L (FAG-62 and FAG-50, respectively) with the exception of FAG-47 which was measured at 1.1 mg/L. Levels below 1 mg/L are indicative of ongoing denitrification degradation.
- Sulfate ranged from 6.7 to 15.2 mg/L (FAG-50 and FAG-62, respectively). Levels below 20 mg/L are indicative of biodegradation reducing conditions.
- Chloride was generally elevated as compared to an assumed background of approximately 2 mg/L and ranged from 8.1 to 16.4 mg/L (FAG-47 and FAG-62, respectively). Elevated concentrations of chloride are indicative of active biodegradation.
- Methane remained below its RL of 10 µg/L in each of the wells. Elevated concentrations of methane are indicative of active biodegradation.

- Ethane and Ethene remained below their RLs of 10 µg/L in the wells sampled. These parameters are subject to very rapid biodegradation and their relative absence as indicator compounds is not uncommon.

Wells Sampled for Hydrodynamic Dispersion

The four remaining uppermost groundwater wells were sampled for hydrodynamic dispersion parameters specifically FAG-43, FAG-46, RI-MW1 and RI-MW2. These wells are located at a more significant distance from the former TCE pipeline trench source as compared to the wells sampled for biodegradation parameters, consequently they are scheduled to be sampled only for hydrodynamic dispersion parameters. FAG-43 is located in the northwest portion of the FAG Bearings property over 2,000 feet from the former TCE pipeline trench, FAG-46 is located in the southwest portion of the FAG Bearings property near the southern property boundary over 1,250 feet from the former TCE pipeline trench and RI-MW1 and RI-MW2 are located south of FAG-46 beyond the FAG Bearings property along Moorhead Drive over 1,250 feet from the former TCE pipeline trench.

Field-Measured Parameters

- pH was generally neutral and ranged from 6.03 to 7.46 (FAG-43 and RI-MW2, respectively);
- DO was consistently elevated and ranged from 3.71 to 7.61 mg/L (RI-MW2 and RI-MW1, respectively); and
- ORP was relatively low and ranged from -115.4 to 103.7 mV (RI-MW2 and FAG-46, respectively).

Laboratory-Measured Parameter

- Chloride concentration was relatively low and ranged from 2.3 to 17.1 mg/L (FAG-43 and RI-MW2, respectively).

4.3.2 Mississippian Aquifer Wells and Spring Surface Water

The MNA sampling event conducted in 2021 included 10 Mississippian Aquifer wells and two spring surface water samples sourced from the Mississippian Aquifer all of which were sampled for hydrodynamic dispersion parameters. Five of the wells are located on the FAG Bearings property and the remaining five wells and two surface spring water sampling points are located south of the FAG Bearings property.

All of the wells had field-measured well stabilization parameters recorded and the laboratory-measured parameter chloride collected. The spring surface water samples had field-measured parameters recorded at the time of sample collection with the laboratory-measured parameter chloride also collected. Following is a summary review of the results of the field and laboratory-measured indicator parameter based on the locations and sources of the samples.

Wells on FAG Bearings Property

The five Mississippian Aquifer wells located on the FAG Bearings property and sampled in 2021 are FAG-AW4, FAG-05, FAG-11, FAG-88 and FAG-89.

Field-Measured Parameters

- pH was consistently neutral and ranged from 6.92 to 7.63 (FAG-05 and FAG-88, respectively);
- DO ranged from 0.46 to 6.82 mg/L (FAG-AW4 and FAG-89, respectively) with FAG-AW4 representing the Mississippian Aquifer well closest to the former trench location; and
- ORP ranged from 38.2 to 329.4 mV (FAG-11 and FAG-05, respectively).

Laboratory-Measured Parameter

- Chloride concentration ranged from 4.5 to 33.3 mg/L (FAG-89 and FAG-05, respectively) with the highest concentration measured in the northwest portion of the property.

Wells South of FAG Bearings Property (Villages of Silver Creek and Saginaw)

The five Mississippian Aquifer wells located off and to the south of the FAG Bearings property sampled in 2021 are RI-MW5, RI-MW6, RI-MW7, RI-MW8 and RI-MW9.

Field-Measured Parameters

- pH was consistently neutral and ranged from 7.04 to 7.41 (RI-MW8 and RI-MW7, respectively);
- DO was relatively elevated and ranged from 1.16 to 6.86 mg/L (RI-MW9 and RI-MW8, respectively) with the exception of RI-MW5 which was measured at 0.94 mg/L; and
- ORP ranged from 15.2 to 216.7 mV (RI-MW5 and RI-MW7, respectively).

Laboratory-Measured Parameter

- Chloride concentrations ranged from 1.5 to 13.8 mg/L (RI-MW5 and RI-MW9, respectively).

Surface Springs South of FAG Bearings Property

The two Mississippian Aquifer sourced surface spring water samples located off and to the south of the FAG Bearings property sampled in 2020 are SW-01 and RW-341A.

Field-Measured Parameters

- pH was relatively neutral in each (7.49 mg/L in SW-01 and 7.23 in RW-341A);
- DO was highly elevated in each (8.93 mg/L in SW-01 and 9.31 mg/L in RW-341A) and
- ORP was positive in each (183.5 mV in SW-01 and 134.6 mg/L in RW-341A).

Laboratory-Measured Parameter

- Chloride concentrations were identical in each (8.7 mg/L in both SW-01 and RW-341A).

5 SUMMARY AND CONCLUSIONS

The conclusions and recommendations for this Annual Report presented below include review and analysis of the results from 16 rounds of MNA sampling conducted with respect to the NCWS RA through calendar year 2021.

Based on a review of results documented in this Annual Report, the ongoing sampling continues to generate consistent and usable data necessary to evaluate the selected remedy and provides the following conclusions and recommendations.

Upper Groundwater Wells

- The primary natural attenuation process in the uppermost groundwater, particularly in the area adjacent to and south of the former TCE transfer pipeline trench (the identified sole source of NCWS impact) is biodegradation. Calculated tends of recent TCE concentrations in these wells remain stable or decreasing.
- Since sampling of upper groundwater wells commenced at NCWS, there have been significant overall decreases in measured TCE concentrations in the well groups monitoring conditions adjacent to and south of the former TCE pipeline trench (91% and 48%, respectively).
- Over the most recent eight MNA sampling events there have been continued overall decreases in measured TCE concentrations in the well groups monitoring conditions adjacent to and south of the former TCE pipeline trench (70% and 15%, respectively).
- Many of the MNA parameters are indicative of ongoing biodegradation conditions which are further supported by the overall reductions in measured remnant impact adjacent to and south of the former TCE pipeline trench.
- Temporal trend analysis since MNA sampling commenced identified three specific uppermost groundwater wells (out of 18 total) with statistically increasing TCE as follows:
  - The six wells adjacent to the former TCE pipeline trench had stable or decreasing TCE trends with associated trends in TCE daughter products supportive of ongoing biodegradation.
  - FAG-33 and FAG-36: Of the five wells monitoring conditions south of the former pipeline trench location, two (FAG-33 and FAG-36) had calculated statistically increasing TCE trends. Each well also had an increasing trend for the TCE daughter product cis-1,2-DCE and no detected VC.
  - The remaining uppermost wells had stable or decreasing TCE trends except one well in the Village of Silver Creek which was not detected (RI-MW2). Associated trends for the TCE daughter product cis-1,2-DCE in each well were generally similar to those calculated for TCE and the compound VC was primarily not detected or decreasing.

- Temporal trend analysis for the eight most recent MNA sampling events identified one specific uppermost groundwater well (out of 18 total) with statistically increasing TCE as follows:
  - The six wells adjacent to the former TCE pipeline trench had stable or probably decreasing TCE trends with associated trends in the TCE daughter product cis-1,2-DCE generally similar and VC generally similar or not detected.
  - The five wells monitoring conditions south of the former pipeline trench location, two (FAG-33 and FAG-36) had calculated statistically increasing TCE trends. Each well also had an increasing trend for the TCE daughter product cis-1,2-DCE and no detected VC.

The remaining uppermost wells had stable or decreasing TCE trends except one well in the Village of Silver Creek which was not detected (RI-MW1), one well in the northwest area of FAG Bearings property which had no trend (FAG-43) and one well southwest of the Service Building which had an increasing trend (FAG-50). Associated trends for the TCE daughter product cis-1,2-DCE in each well were generally similar to those calculated for TCE and the compound VC was primarily not detected.

FAG recognizes the presence of certain stable and/or increasing COC temporal trends in specific wells and will review potential options to enhance the selected natural attenuation remedy in conjunction with the updated RA MNA data set to be collected in 2022.

Mississippian Aquifer Wells

- The primary natural attenuation process in the Mississippian Aquifer continues to be hydrodynamic dispersion which serves to diminish groundwater impact within this unit.
- Since sampling of Mississippian Aquifer wells commenced at NCWS, there have been overall decreases in measured TCE concentrations in the well groups on FAG Bearings property (10% decrease) and to the south in the Villages of Silver Creek and Saginaw (71% decrease).
- Over the eight most recent sampling MNA sampling events, there has been an overall increase in measured TCE concentration in the well group on FAG Bearings property (21% increase) and an overall decrease in measured TCE concentration in the well group south in the Villages of Silver Creek and Saginaw (20% decrease).
- Temporal trend analysis since MNA sampling commenced identified two Mississippian Aquifer wells (out of 10 total) with statistically probably increasing TCE concentration trends as follows:
  - The five wells monitoring conditions on the FAG Bearings property had stable or decreasing trends for TCE. The TCE daughter product cis-1,2-DCE had generally similar trends and VC remained not detect except well FAG-AW4 had increasing trends for both cis-1,2-DCE and VC.
  - RI-MW7: Of the five wells monitoring conditions south of the FAG Bearings property in the Villages of Silver Creek and Saginaw, only RI-MW7 located approximately ½-mile from the FAG Bearings property boundary had an

increasing trend for TCE. This well also had an increasing trend for the TCE daughter product cis-1,2-DCE while VC was not detected.

  - The remaining four wells south of the FAG Bearings property had decreasing or stable TCE trends as well as stable or decreasing trends for the TCE daughter product cis-1,2-DCE (except for RI-MW8 which was not detected) while VC was not detected.

- Temporal trend analysis over the eight most recent sampling events identified two Mississippian Aquifer wells (out of 10 total) with statistically probably increasing TCE concentrations trends as follows:
  - FAG-AW4: Of the five wells monitoring conditions on the FAG Bearings property, only FAG-AW4 located slightly to the south of the former TCE pipeline trench had a probably increasing trend for TCE. The TCE daughter product cis-1,2-DCE had a probably increasing trend while VC had an increasing trend.
  - The remaining four wells on the FAG Bearings property had either decreasing, probably decreasing or stable trends for TCE with generally similar trends for the TCE daughter product cis-1,2-DCE and not detected for VC.
  - RI-MW6: Of the five wells monitoring conditions south of the FAG Bearings property in the Villages of Silver Creek and Saginaw, only RI-MW6 located approximately 800 feet from the FAG Bearings property boundary had a probably increasing trend for TCE. This well also had a probably increasing trend for the TCE daughter product cis-1,2-DCE while VC was not detected.
  - The remaining four wells south of the FAG Bearings property had decreasing or stable TCE trends as well as stable trends or not detected for the TCE daughter product cis-1,2-DCE while VC was not detected.

Mississippian Aquifer Spring Surface Water

- The primary natural attenuation process in the two Mississippian Aquifer sourced spring water locations continues to be hydrodynamic dispersion which serves to diminish groundwater impact of the source for these spring water surface discharges.
- Of the two spring water sampling points, TCE concentrations in RW-341A has always remained near or below the RL and also below the goal concentration for the source aquifer while SW-01 has remained near or below the RL and also below the goal concentration for the source aquifer for over a decade.
- Temporal trend analysis since MNA sampling commenced and for the last eight sampling events determined that TCE concentrations had a stable trend for both locations while the daughter products cis-1,2-DCE and VC remained not detected.
- The two surface water springs sampled (sourced from the Mississippian Aquifer) have achieved the remediation goal objectives for COCs.

Remedial Actions and Potential Additional Remedial Actions

As provided in the NCWS ROD, the remedial alternative selected for the NCWS to achieve remedial action objectives specified for the upper groundwater and Mississippian Aquifer are MNA and implementation/enforcement of existing regional ICs. Implementation and activities required for the MNA portion of the chosen alternative are the responsibility of FAG Bearings.

The remedial action objectives specified for MNA are to:

- Reduce the concentration of TCE and TCE degradation products in the uppermost aquifer of the NCWS to concentrations that are protective of the Mississippian Aquifer as a potable water source with respect to TCE and TCE degradation products; and
- Return the Mississippian Aquifer water quality at the NCWS to potable conditions, with respect to TCE and TCE degradation products.

Criteria for effectiveness of MNA towards achieving the objective provided in the ROD and Second Five Year Summary Report include:

- ROD: "Should no significant decreasing trend in the levels of TCE be observed in the Mississippian Aquifer during the first five years of sampling, over a consistent period of time, a contingency to use ISCO to treat contamination in the uppermost groundwater will be implemented."
- Second Five Year Report: "If MNA parameters do not appear to be occurring near the former trench and/or if a significant decreasing trend in TCE levels is not observed in the Mississippian Aquifer consider the implementation of ISCO injections."

MNA has been determined to continue to be effective with regard to the NCWS in reducing overall concentrations of groundwater impact in both the upper groundwater and Mississippian Aquifer. Decreasing/stable temporal trends of TCE are associated with the majority of wells in both the upper groundwater and Mississippian Aquifer since MNA sampling commenced and for the most recent eight sampling events.

Upper groundwater wells adjacent to the former TCE pipeline trench (the identified sole source of impact associated with the NCWS) have either stable or decreasing statistical trends since MNA sampling commenced and for the most recent eight sampling events with overall total calculated percent decreases in TCE since sampling commenced and for the last eight sampling events of 90% and 70%, respectively.

TABLES

TABLE 3-1
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS
(May 2021)
Newton County Wells Site
Villages of Silver Creek and Saginaw, Missouri

Monitoring Well Number	Ground Surface Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Static Water Level Depth (feet btoc)	Static Water Level Elevation (feet amsl)	Static Water Level Depth (feet bgs)	Total Depth (feet btoc)	Total Depth (feet bgs)
Uppermost Groundwater/Bedrock Interface Well Locations							
Northwest Corner of FAG Bearings Property							
FAG-43	1,031.08	1,030.67	16.02	1,014.65	16.43	21.30	21.71
Southwest of Service Building and Southern FAG Bearings Property Line							
FAG-46	1,049.28	1,051.51	49.45	1002.06	47.22	57.61	55.38
FAG-47	1,045.24	1,047.54	52.95	994.59	50.65	54.36	52.06
FAG-50	1,042.12	1,044.36	36.50	1007.86	34.26	39.91	37.67
FAG-62	1,047.74	1,047.41	28.05	1019.36	28.38	29.97	30.30
Village of Silver Creek							
RI-MW-1	1,042.19	1,041.64	46.85	994.79	47.40	63.31	63.86
RI-MW-2	1,036.48	1,036.06	39.44	996.62	39.86	99.79	100.21
Adjacent to the Former TCE Transfer Pipeline Trench							
FAG-22	1,055.95	1,058.45	33.95	1,024.50	31.45	97.38	94.88
FAG-56	1,055.72	1,055.46	22.40	1,033.06	22.66	31.48	31.74
FAG-31	1,054.48	1,054.05	34.90	1,019.15	35.33	83.97	84.40
FAG-32	1,054.57	1,054.08	29.45	1,024.63	29.94	63.71	64.20
FAG-74	1,053.35	1,052.69	27.79	1,024.90	28.45	34.79	35.45
FAG-73	1,052.93	1,052.34	15.80	1,036.54	16.39	30.05	30.64
South of the Former TCE Transfer Pipeline Trench							
FAG-33	1,049.63	1,051.81	34.08	1,017.73	31.90	47.51	45.33
FAG-34	1,049.52	1,051.82	31.16	1,020.66	28.86	56.48	54.18
FAG-35	1,049.63	1,051.99	32.24	1,019.75	29.88	71.74	69.38
FAG-36	1,049.84	1,052.05	34.10	1,017.95	31.89	97.55	95.34
FAG-85	1,046.81	1,046.28	28.00	1,018.28	28.53	94.41	94.94
Mississippian Aquifer Well Locations							
FAG Bearings Property							
FAG-AW4 [1]	1,051.97	1,055.62	59.95	995.67	56.31	161.52	157.88
FAG-05	1,037.50	1,037.20	36.61	1000.59	36.91	194.75	195.05
FAG-11	1,045.26	1,047.00	46.55	1000.45	44.81	194.00	192.26
FAG-88	1,038.59	1,038.59	43.00	995.59	43.00	170.00	170.00
FAG-89	1,036.35	1,038.26	40.45	997.81	38.54	175.00	173.09
Villages of Silver Creek and Saginaw							
RI-MW-9	1,041.52	1,041.21	40.92	1000.29	41.22	195.00	195.30
RI-MW-5	1,044.17	1,043.72	47.50	996.22	47.95	181.00	181.45
RI-MW-6	1,061.87	1,061.44	65.81	995.63	66.24	203.00	203.43
RI-MW-7	1,060.37	1,060.01	85.85	974.16	86.21	199.20	199.56
RI-MW-8	938.65	939.50	4.45	935.05	3.60	42.40	41.55

Notes:

1: FAG-AW4 was drilled and constructed at an angle of approximately 30 degrees from vertical
feet amsl: Feet above mean sea level
feet bgs: Feet below ground surface
feet btoc: Feet below top of well casing

RAMBOLL

TABLE 3-2
SUMMARY OF FINAL MONITORING WELL GROUNDWATER AND SPRING SURFACE WATER FIELD PARAMETER MEASUREMENTS
(MAY 2021)
Newton County Wells Site
Villages of Silver Creek and Saginaw, Missouri

Monitoring Well or Surface Water Identification	Wellhead Condition	Well Casing Diameter (inches)	Pump Type	Date Purged	Date Sampled	Static Water Level (feet btoc)	Total Depth of Well Casing (feet btoc)	Calculated Well Volume Under Static Conditions		Field Parameter Measurements										
										Time Sampled	Actual Volume of Water Purged		pH (SU)	SC (µS/cm)	ORP (mV)	Temperature		DO (mg/L)	Total Ferrous Iron (mg/L)	Analytical Parameter List
								Gallons	Liters		Gallons	Liters				(°C)	(°F)			
Uppermost Groundwater																				
Northwest Corner of FAG Bearings Property																				
FAG-43	Good	2	Bailer	5/18/2021	5/18/2021	16.02	21.30	0.86	3.26	13:42	2.50	9.46	6.03	0.063	55.2	15.8	60.4	4.08	nm	B
Southwest of Service Building and Southern FAG Bearings Property Line																				
FAG-46	Good	2	Bailer	5/18/2021	5/18/2021	49.45	57.61	1.33	5.03	14:31	4.00	15.14	6.46	0.305	103.7	16.9	62.4	6.32	0.53	B
FAG-47	Good	2	Bailer	5/18/2021	5/18/2021	52.95	54.36	0.23	0.87	15:58	0.25	0.95	6.87	0.44	89.2	16.4	61.5	4.62	0.60	A
FAG-50	Good	2	Bailer	5/18/2021	5/18/2021	36.50	39.91	0.56	2.10	12:50	1.50	5.68	6.79	139.6	84.70	15.40	59.7	8.79	0.00	A
FAG-62	Good	2	Bailer	5/18/2021	5/18/2021	28.05	29.97	0.31	1.18	12:55	1.25	4.73	6.77	0.55	52.50	18.20	64.8	3.37	0.11	A
Village of Silver Creek																				
RI-MW1	Good	2	Bailer	5/18/2021	5/18/2021	46.85	63.31	2.68	10.16	10:41	3.00	11.36	7.34	0.389	26.3	16.7	62.1	7.61	0.01	B
RI-MW2	Good	2	Bailer	5/18/2021	5/18/2021	39.44	99.79	9.84	37.23	10:45	13.00	49.21	7.46	0.496	-115.4	16.7	62.1	3.71	1.55	B
Adjacent to the Former TCE Transfer Pipeline Trench																				
FAG-22	Good	2	Piston Pump	5/20/2021	5/20/2021	33.95	97.38	10.34	39.13	10:50	6.40	24.23	7.01	525	278.5	19.9	67.8	0.70	0.40	A
FAG-56	Good	2	Bailer	5/18/2021	5/18/2021	22.40	31.48	1.48	5.60	9:07	4.75	17.98	6.53	0.426	88.9	18.4	65.1	2.87	0.00	A
FAG-31	Good	2	Piston Pump	5/20/2021	5/20/2021	34.90	83.97	8.00	30.27	8:53	9.00	34.07	7.14	393.0	176.8	19.2	66.6	0.64	0.19	A
FAG-32	Good	2	Bailer	5/19/2021	5/19/2021	29.45	63.71	5.58	21.14	12:30	12.50	47.32	8.61	244.8	-1.9	18.3	64.9	3.84	0.14	A
FAG-74	Repaired	2	Bailer	5/21/2021	5/21/2021	27.79	33.20	0.88	3.34	14:50	1.00	3.79	7.14	549.0	-17.6	18.7	65.7	6.87	0.85	A
FAG-73	Good	2	Bailer	5/19/2021	5/19/2021	15.80	30.05	2.32	8.79	9:15	3.50	13.25	7.09	507.0	-124.8	17.9	64.2	2.61	3.27	A
South of the Former TCE Transfer Pipeline Trench																				
FAG-33	Good	2	Bailer	5/18/2021	5/18/2021	34.08	47.51	2.19	8.29	8:15	4.50	17.03	5.66	0.138	135.0	15.8	60.4	3.74	0.76	A
FAG-34	Good	2	Bailer	5/19/2021	5/19/2021	31.16	56.48	4.13	15.62	8:34	10.50	39.75	6.96	389.8	140.9	16.1	61.0	3.17	0.18	A
FAG-35	Good	2	Bailer	5/18/2021	5/18/2021	32.24	71.74	6.44	24.37	15:31	11.00	41.64	7.38	0.51	133.3	16.9	62.4	5.26	nm	A
FAG-36	Good	2	Piston Pump	5/19/2021	5/19/2021	34.10	97.55	10.34	39.15	15:16	6.00	22.71	6.66	343.8	245.4	20.8	69.4	2.85	0.10	A
FAG-85	Repaired	2	Bailer	5/21/2021	5/21/2021	28.00	94.41	10.82	40.97	14:10	32.00	121.13	7.06	522.0	-106.9	16.5	61.7	2.22	0.00	A
												Minimum	**5.66**	**0.063**	**-124.8**	**15.4**	**59.7**	**0.64**	**0.00**	
												Maximum	**8.61**	**549**	**279**	**20.8**	**69.4**	**8.79**	**3.27**	
Mississippian Aquifer Well Locations																				
FAG Bearings Property																				
FAG-AW4	Good	2	Piston Pump	5/19/2021	5/19/2021	59.95	161.5	16.56	62.66	16:57	8.00	30.28	7.07	484.2	255.2	17.7	63.9	0.46	nm	B
FAG-05	Good	2	Piston Pump	5/19/2021	5/19/2021	36.61	194.8	25.78	97.57	9:00	4.22	15.97	6.92	512	329.4	17.3	63.1	4.58	nm	B
FAG-11	Good	2	Piston Pump	5/19/2021	5/19/2021	46.55	194.0	24.03	90.97	10:48	9.00	34.07	7.06	479	38.2	17.9	64.2	1.29	nm	B
FAG-88	Good	4	Bailer [1]	5/19/2021	5/19/2021	43.00	170.0	82.93	313.89	13:40	8.50	32.18	7.63	320.4	69.8	15.4	59.7	4.34	nm	B
FAG-89	Good	4	Bailer [1]	5/20/2021	5/20/2021	40.45	175.0	87.86	332.55	8:50	10.50	39.75	7.32	363.8	170.6	15.1	59.2	6.82	nm	B
Villages of Silver Creek and Saginaw																				
RI-MW5	Good	4	Piston Pump	5/18/2021	5/18/2021	24.65	181.0	102.10	386.44	11:54	7.00	26.50	7.10	98.3	15.2	21.0	69.8	0.94	nm	B
RI-MW6	Good	4	Piston Pump	5/18/2021	5/18/2021	65.81	203.0	89.59	339.08	16:35	10.00	37.85	7.37	335.3	46.9	20.7	69.3	3.46	nm	B
RI-MW7	Good	4	Piston Pump	5/18/2021	5/18/2021	85.85	199.2	74.02	280.16	14:55	11.00	41.64	7.41	347.2	216.7	21.1	70.0	5.23	nm	B
RI-MW8	Good	4	Piston Pump	5/18/2021	5/18/2021	4.45	42.4	24.78	93.80	9:38	5.00	18.93	7.04	402.9	185.9	18.9	66.0	6.86	nm	B
RI-MW9	Good	4	Piston Pump	5/19/2021	5/19/2021	40.92	195.0	100.61	380.82	12:28	10.00	37.85	7.21	417.4	74.4	17.8	64.0	1.16	nm	B
												Minimum	**6.92**	**98.3**	**15.2**	**15.1**	**59.2**	**0.46**	**nm**	
												Maximum	**7.63**	**512**	**329.4**	**21.1**	**70.0**	**6.86**	**nm**	
Mississippian Aquifer Spring Surface Water Sample Locations																				
Village of Saginaw																				
SW-01	na	na	na	na	5/20/2021	na	na	na	na	11:30	na	na	7.49	314.7	183.5	14.0	57.2	8.93	nm	B
RW-341A	na	na	na	na	5/20/2021	na	na	na	na	11:20	na	na	7.23	377.3	134.6	15.9	60.6	9.31	nm	B
												Minimum	**7.23**	**314.7**	**134.6**	**14.0**	**57.2**	**8.93**	**nm**	
												Maximum	**7.49**	**377.3**	**183.5**	**15.9**	**60.6**	**9.31**	**nm**	

Notes:

feet btoc: Feet below top of well casing
SC: Specific conductivity
ORP: Oxidation reduction potential
DO: Dissolved oxygen
SI: Standard international units
µS/cm: Microsiemens per centimeter

°F: Degrees Fahrenheit
°C: Degrees Celsius
mV: Millivolts
mg/L: Milligrams per liter
nm: Not measured
na: Not applicable

A: **Parameter A (biodegradation):** Laboratory VOCs, Nitrate, Sulfate, Chloride, Methane, Ethane, Ethene
Parameter A (biodegradation): Field Oxidation Reduction Potential, Specific Conductance, Dissolved Oxygen, pH, Temperature, Ferrous Iron
B: **Parameter B (hydrodynamic dispersion):** Laboratory VOCs, Chloride
Parameter B (hydrodynamic dispersion): Field Oxidation Reduction Potential, Specific Conductance, Dissolved Oxygen, pH, and Temperature
DNS: Did not sample; inadequate water column in the well during this sampling event.
1: FAG-88 and FAG-89 were purged using a bailer due to muddy terrain impeding access with piston pump.

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TABLE 3-3
GROUNDWATER AND SURFACE WATER SAMPLE LOCATIONS AND LIST OF PARAMETERS TO SUPPORT MONITORED NATURAL ATTENUATION (MNA) FOR REMEDIAL ACTION ACTIVITIES
Newton County Wells Site
Villages of Silver Creek and Saginaw, Missouri

Sampling Location	Parameter List-A (biodegradation)	Parameter List-B (hydrodynamic dispersion)
Uppermost Groundwater Well Locations		
Northwest Corner of FAG Bearings Property		
FAG-43		X
Southwest of Service Building and Southern FAG Bearings Property Line		
FAG-46		X
FAG-47	X	
FAG-50	X	
FAG-62	X	
Village of Silver Creek		
RI-MW1		X
RI-MW2		X
Adjacent to the Former TCE Transfer Pipeline Trench		
FAG-22	X	
FAG-56	X	
FAG-31	X	
FAG-32	X	
FAG-74	X	
FAG-73	X	
South of the Former TCE Transfer PipelineTrench		
FAG-33	X	
FAG-34	X	
FAG-35	X	
FAG-36	X	
FAG-85	X	
Mississippian Aquifer Wells		
FAG Bearings Property		
FAG-AW4		X
FAG-05		X
FAG-11		X
FAG-88		X
FAG-89		X
Villages of Silver Creek and Saginaw		
RI-MW9		X
RI-MW5		X
RI-MW6		X
RI-MW7		X
RI-MW8		X
Mississippian Aquifer Spring Surface Water Sample Locations		
Village of Saginaw		
SW-01		X
RW-341A		X

Notes:
Parameter List-A (biodegradation):
- **Laboratory;** Volatile Organic Compounds, Nitrate, Sulfate, Chloride, Methane, Ethane, Ethene
- **Field;** Oxidation Reduction Potential, Specific Conductance, Dissolved Oxygen, pH, Temperature and Ferrous Iron

Parameter List-B (hydrodynamic dispersion):
- **Laboratory;** Volatile Organic Compounds and Chloride
- **Field;** Oxidation Reduction Potential Specific Conductance, Dissolved Oxygen, pH and Temperature

TABLE 3-4
SUMMARY OF LABORATORY MONITORED NATURAL ATTENUATION PARAMETERS AND DETECTED VOLATILE ORGANIC COMPOUNDS
(MAY 2021)
Newton County Wells Site
Villages of Silver Creek and Saginaw, Missouri

Analyte	Units	Uppermost Groundwater Wells																			Minimum Detection	Maximum Detection	Total Detections	Total Investigative Samples
		FAG-22	FAG-31	FAG-32	FAG-32-FD	FAG-33	FAG-34	FAG-35	FAG-36	FAG-43	FAG-46	FAG-47	FAG-50	FAG-56	FAG-62	FAG-73	FAG-74	FAG-85	RI-MW1	RI-MW2				
		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result				
Volatile Organic Compounds																								
1,1-Dichloroethene	µg/L	<10.0	<10.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10.0	<1.0	<1.0	<1.0	<20.0	<1.0	<1.0	1.5	<1.0	<5.0	<1.0	<1.0	1.5	1.5	1	18
1,2-Dichloroethene (Total)	µg/L	168	252	44.2	39.7	4.4	243	115	244	<1.0	4.0	5.9	62.4	77.9	13.8	49.6	186	207	2.0	<1.0	2.0	252	16	18
cis-1,2-Dichloroethene	µg/L	165	248	43.7	39.3	4.4	238	113	240	<1.0	4.0	5.9	62.4	76.8	13.8	45.8	179	204	2.0	<1.0	2.0	248	16	18
trans-1,2-Dichloroethene	µg/L	<10.0	<10.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10.0	<1.0	<1.0	<1.0	<20.0	1.1	<1.0	3.8	6.9	<5.0	<1.0	<1.0	1.1	6.9	3	18
Trichloroethene	µg/L	344	733	183	167	28.9	462	488	535	<1.0	27.7	55.4	3,220	7.8	23.9	18.8	201	610	68.3	<1.0	7.8	3,220	16	18
Vinyl chloride	µg/L	18.3	<10.0	<1.0	<1.0	<1.0	<5.0	<5.0	<10.0	<1.0	<1.0	<1.0	<20.0	<1.0	<1.0	4.2	18.9	37.2	<1.0	<1.0	4.2	37.2	4	18
Monitored Natural Attenuation Parameters (Laboratory)																								
Nitrate as N	mg/L	2.1	0.87	0.28	0.25	<0.10	0.17	1.3	<0.10	NA	NA	1.1	0.25	0.59	<0.10	<0.10	<0.10	0.65	NA	NA	0.17	2.1	9	14
Sulfate	mg/L	16.5	9.4	12.8	12.8	1.6	10.9	15.3	9.7	NA	NA	9.7	6.7	33.5	15.2	9.4	18.2	16.0	NA	NA	1.6	33.5	14	14
Chloride	mg/L	21.5	4.5	8.3	8.3	14.6	12.3	14.5	10.7	2.3	4.5	8.1	9.0	14.8	16.4	15.1	25.5	13.1	9.7	17.1	2.3	25.5	18	18
Methane	ug/L	17.1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	<10.0	<10.0	<10.0	<10.0	207	901.0	1,590	NA	NA	17.1	1,590	4	14
Ethane	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	not detected		0	14
Ethene	µg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	not detected		0	14

Analyte	Units	Mississippian Aquifer Groundwater Wells											Minimum Detection	Maximum Detection	Total Detections	Total Investigative Samples
		FAG-05	FAG-05-FD	FAG-88	FAG-11	FAG-89	FAG-AW4	RI-MW5	RI-MW6	RI-MW7	RI-MW8	RI-MW9				
		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result				
Volatile Organic Compounds																
1,2-Dichloroethene (Total)	µg/L	3.1	3.3	1.6	<1.0	1.3	297	<1.0	8.2	2.9	<1.0	<1.0	1.3	297	6	10
cis-1,2-Dichloroethene	µg/L	3.1	3.3	1.6	<1.0	1.3	292	<1.0	8.2	2.9	<1.0	<1.0	1.3	292	6	10
Trichloroethene	µg/L	23.9	23.5	6.5	<1.0	10.3	1,150	<1.0	45.4	19.5	2.1	6.9	2.1	1,150	8	10
Vinyl Chloride	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	24.2	<1.0	<1.0	<1.0	<1.0	<1.0	24.2	24.2	1	10
Monitored Natural Attenuation Parameter (Laboratory)																
Chloride	mg/L	33.3	33.1	5.9	24.9	4.5	14.1	1.5	8.0	6.2	8.7	13.8	1.5	33.3	10	10

Analyte	Units	Spring Surface Water		Minimum Detection	Maximum Detection	Total Detections	Total Investigative Samples
		RW-341A	SW-01				
		Result	Result				
Volatile Organic Compounds							
Trichloroethene	µg/L	1.0	1.3	1.0	1.3	2	2
Monitored Natural Attenuation Parameter (Laboratory)							
Chloride	mg/L	8.7	8.7	8.7	8.7	2	2

Notes:
mg/L: Milligrams per liter
µg/L: Micrograms per liter
NA: Not analyzed
<: Not detected above the indicated concentration
FD: Field Duplicate

= Parameter List A (biodegradation) Laboratory Parameters: VOCs, Nitrate, Sulfate, Chloride, Methane, Ethane, Ethene

= Parameter List B (hydrodynamic dispersion) Laboratory Parameters: VOCs and Chloride

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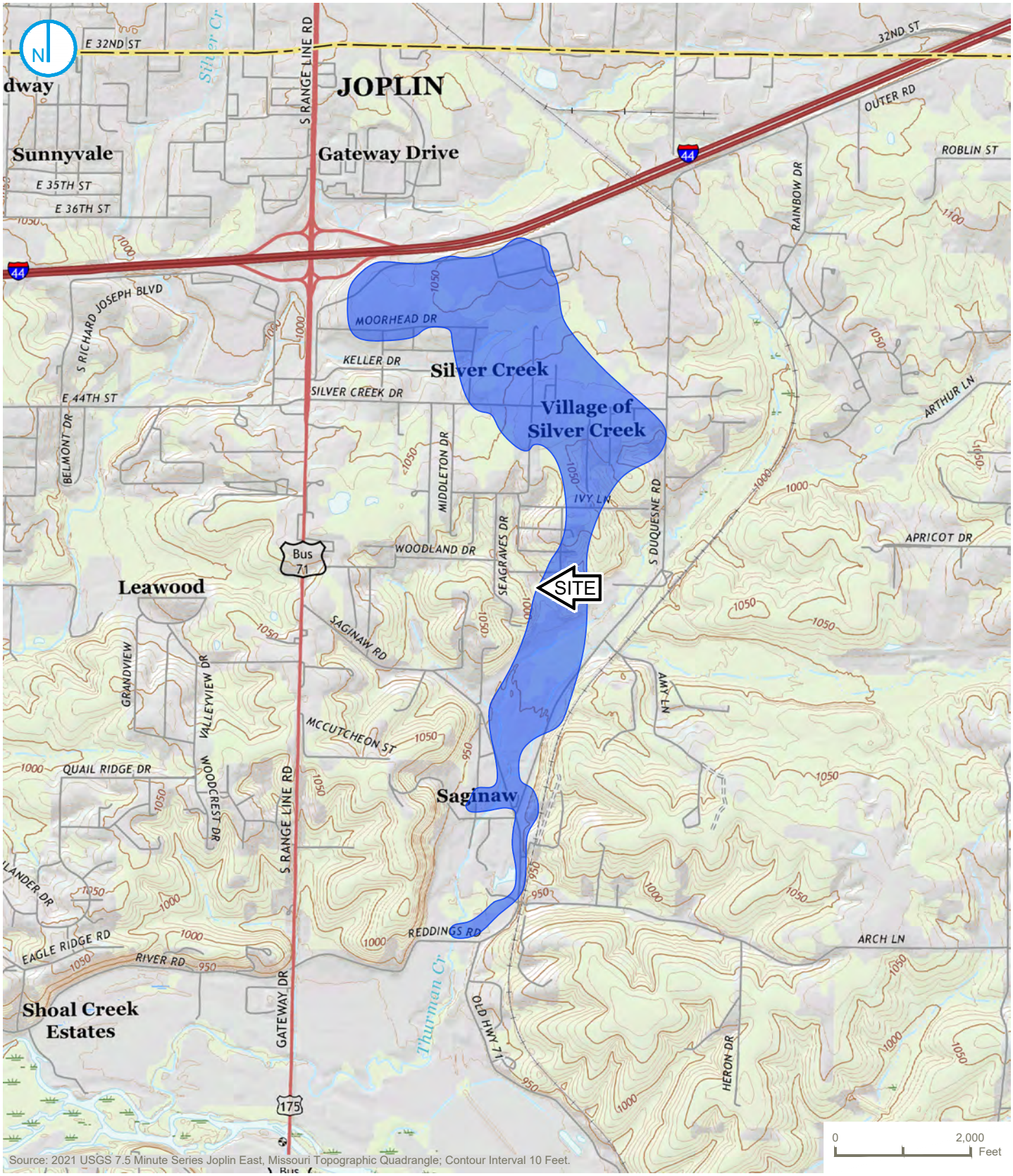
FIGURES



Map Scale: 1:24,000 | Map Center: 37°1'59.0511", -94°28'7.2214"

L:\Loop Project Files_CAD\1690004605_FAG Bearings_2021\1-1_Site Location Map.dwg

PROJECT: 1690004605 DATED: 9/1/2021 DESIGNER: CKL

SITE LOCATION MAP

FIGURE 1-1

KEY MAP

SITE BOUNDARY BASED ON REMEDIAL INVESTIGATION

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

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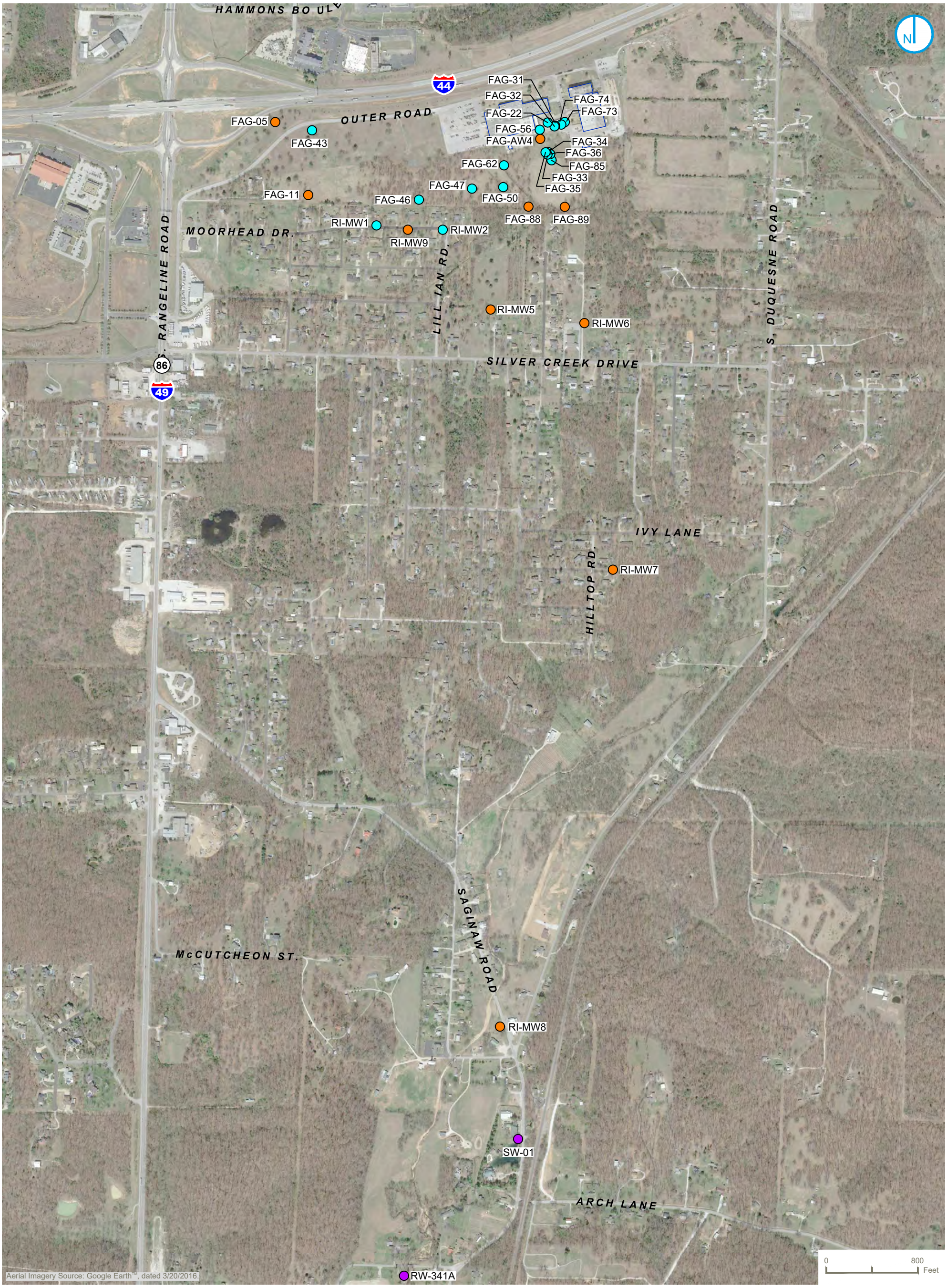

- SURFACE WATER
- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER

SURFACE WATER, UPPERMOST GROUNDWATER AND MISSISSIPPIAN AQUIFER WELL LOCATIONS

FIGURE 3-1

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

RAMBOLL US CONSULTING, INC.
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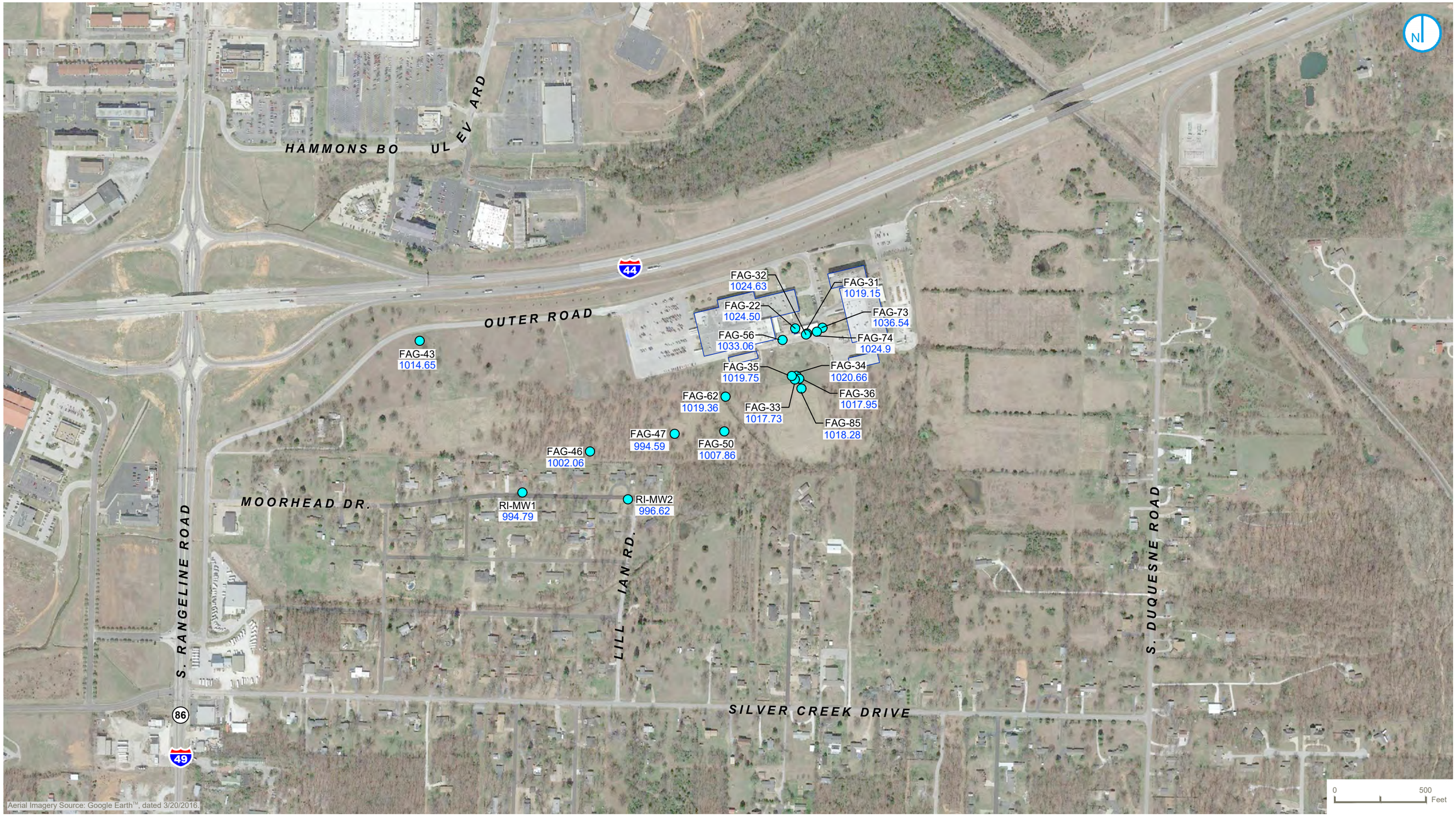


PROJECT: 1690004605 DATED: 9/15/2021 DESIGNER: CKL

L:\Loop Project Files_CAD\1690004605_FAG Bearings_20213-2_UM GW_Static Water Elev (May 17 2021).dwg

UPPERMOST GROUNDWATER

1019.36 WATER ELEVATION (FEET ABOVE SEA LEVEL)

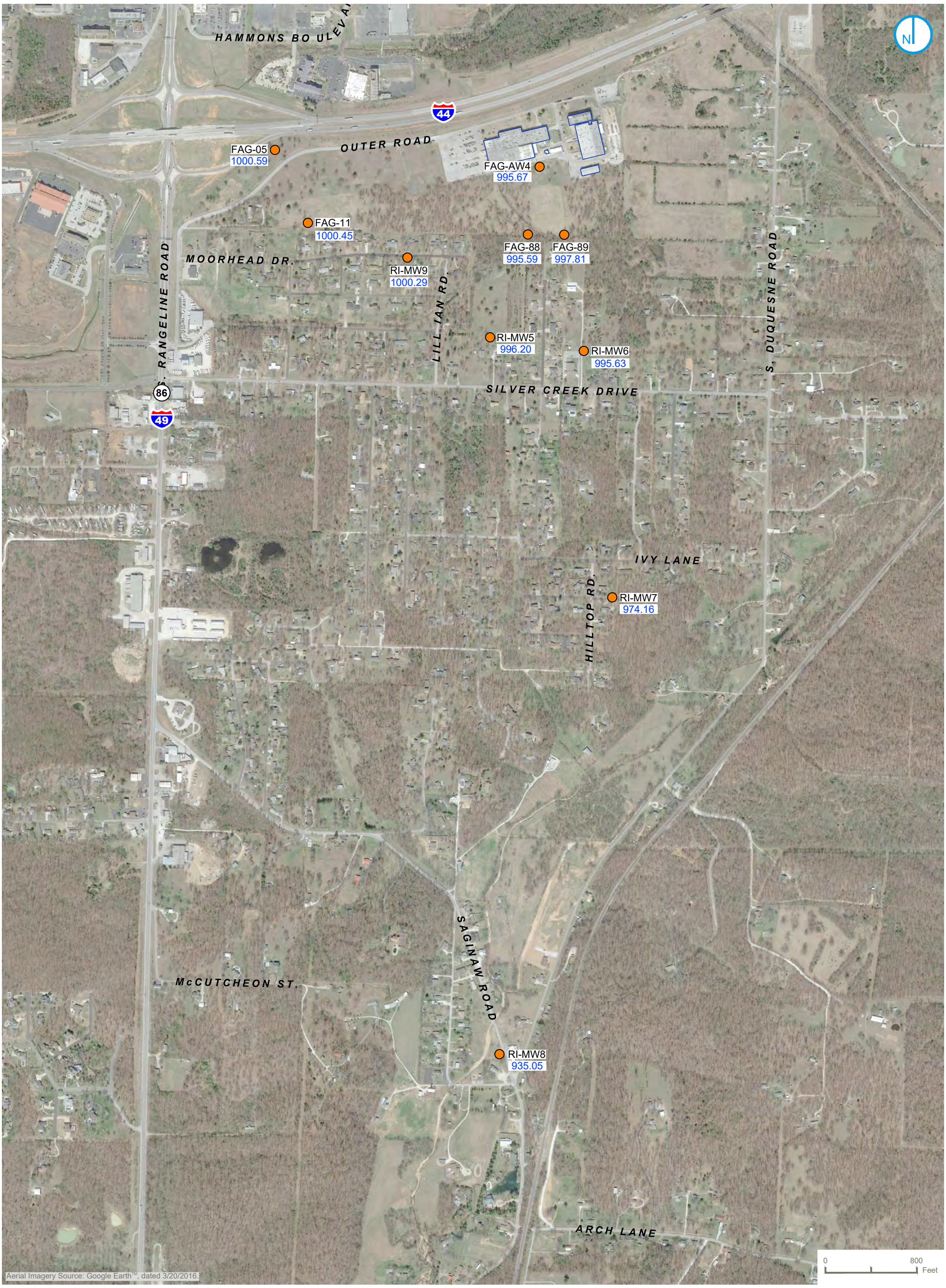
UPPERMOST GROUNDWATER WELLS STATIC WATER ELEVATIONS MEASURED ON MAY 17, 2021

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 3-2

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL



MISSISSIPPIAN AQUIFER

988.02 WATER ELEVATION (FEET ABOVE SEA LEVEL)

MISSISSIPPIAN AQUIFER WELLS STATIC WATER ELEVATIONS MEASURED ON MAY 17, 2021

FIGURE 3-3

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

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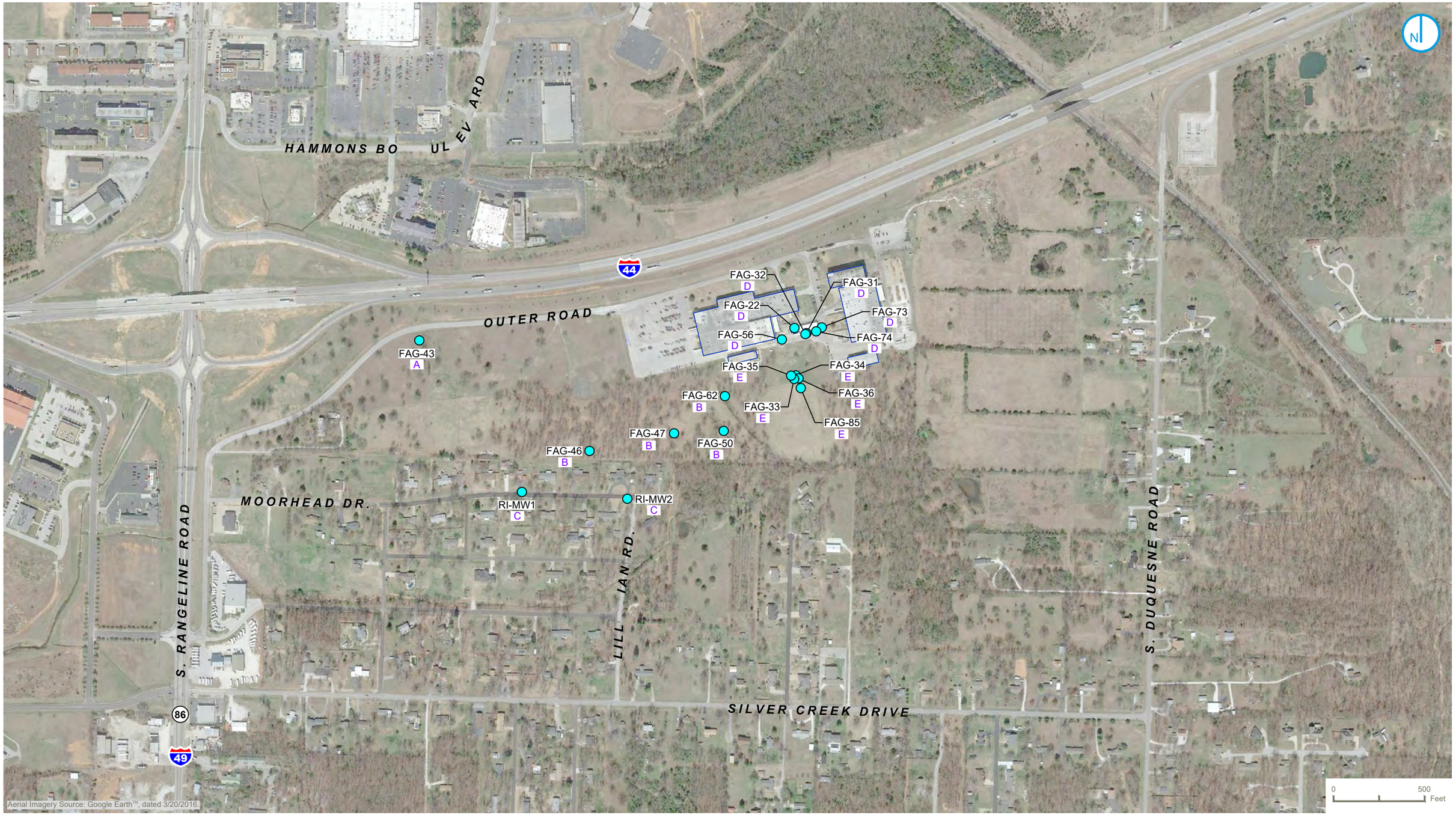

L:\Loop Project Files_CAD\1690004605_FAG Bearings_2022\3-4A_UM GW Wells General Groupings.dwg

PROJECT: 1690004605 DATED: 4/11/2022 DESIGNER: CKL

- UPPERMOST GROUNDWATER
- A WELL LOCATED AT THE NORTHWEST CORNER OF THE FAG BEARINGS PROPERTY
- B WELLS LOCATED SOUTHWEST OF SERVICE BUILDING AND SOUTHERN FAG BEARINGS PROPERTY LINE
- C WELLS LOCATED IN THE VILLAGE OF SILVER CREEK
- D WELLS LOCATED ADJACENT TO THE FORMER TRICHLOROETHENE (TCE) TRANSFER PIPELINE TRENCH
- E WELLS LOCATED SOUTH OF THE FORMER TCE TRANSFER PIPELINE TRENCH

UPPERMOST GROUNDWATER WELLS GENERAL GROUPINGS

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 3-4A

RAMBOLL US CONSULTING, INC.
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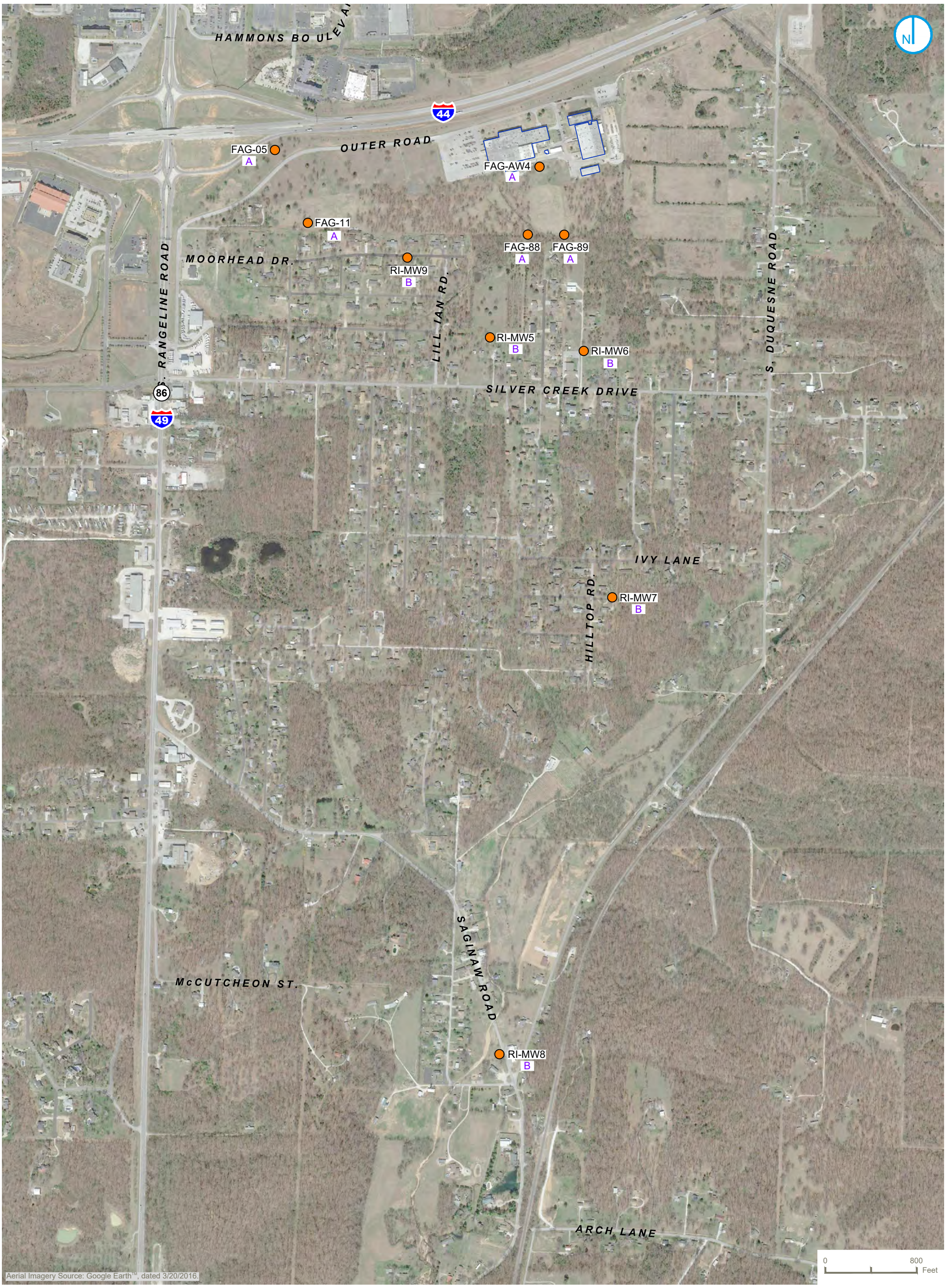

- MISSISSIPPIAN AQUIFER
- A WELLS LOCATED ON THE FAG BEARINGS PROPERTY
- B WELLS LOCATED IN THE VILLAGES OF SILVER CREEK AND SAGINAW

MISSISSIPPIAN AQUIFER WELLS GENERAL GROUPINGS

FIGURE 3-4B

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

RAMBOLL US CONSULTING, INC.
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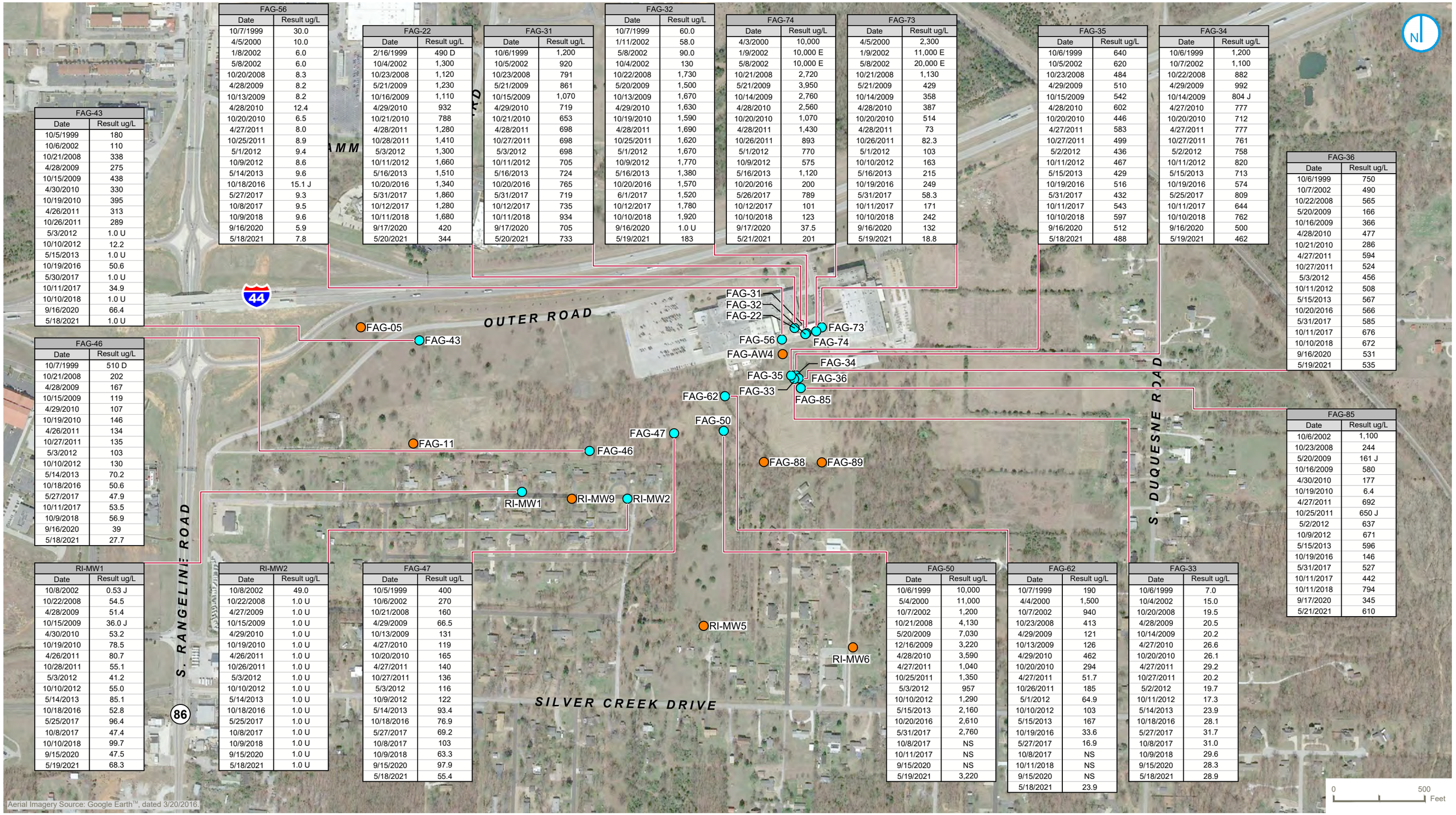
RAMBOLL



FAG-56	
Date	Result ug/L
10/7/1999	30.0
4/5/2000	10.0
1/8/2002	6.0
5/8/2002	6.0
10/20/2008	8.3
4/28/2009	8.2
10/13/2009	8.2
4/28/2010	12.4
10/20/2010	6.5
4/27/2011	8.0
10/25/2011	8.9
5/1/2012	9.4
10/9/2012	8.6
5/14/2013	9.6
10/18/2016	15.1 J
5/27/2017	9.3
10/8/2017	9.5
10/9/2018	9.6
9/16/2020	5.9
5/18/2021	7.8

FAG-22	
Date	Result ug/L
2/16/1999	490 D
10/4/2002	1,300
10/23/2008	1,120
5/21/2009	1,230
10/16/2009	1,110
4/29/2010	932
10/21/2010	788
4/28/2011	1,280
10/28/2011	1,410
5/3/2012	1,300
10/11/2012	1,660
5/16/2013	1,510
10/20/2016	1,340
5/31/2017	1,860
10/12/2017	1,280
10/11/2018	1,680
9/17/2020	420
5/20/2021	344

FAG-31	
Date	Result ug/L
10/6/1999	1,200
10/5/2002	920
10/23/2008	791
5/21/2009	861
10/15/2009	1,070
4/29/2010	719
10/21/2010	653
4/28/2011	698
10/27/2011	698
5/3/2012	698
10/11/2012	705
5/16/2013	724
10/20/2016	765
5/31/2017	719
10/12/2017	735
10/11/2018	934
9/17/2020	705
5/20/2021	733

FAG-32	
Date	Result ug/L
10/7/1999	60.0
1/11/2002	58.0
5/8/2002	90.0
10/4/2002	130
10/22/2008	1,730
5/20/2009	1,500
10/13/2009	1,670
4/29/2010	1,630
10/19/2010	1,590
4/28/2011	1,690
10/25/2011	1,620
5/1/2012	1,670
10/9/2012	1,770
5/16/2013	1,380
10/20/2016	1,570
6/1/2017	1,520
10/12/2017	1,780
10/10/2018	1,920
9/16/2020	1.0 U
5/19/2021	183

FAG-74	
Date	Result ug/L
4/3/2000	10,000
1/9/2002	10,000 E
5/8/2002	10,000 E
10/21/2008	2,720
5/21/2009	3,950
10/14/2009	2,760
4/28/2010	2,560
10/20/2010	1,070
4/28/2011	1,430
10/26/2011	893
5/1/2012	770
10/9/2012	575
5/16/2013	1,120
10/20/2016	200
5/26/2017	789
10/12/2017	101
10/10/2018	123
9/17/2020	37.5
5/21/2021	201

FAG-73	
Date	Result ug/L
4/5/2000	2,300
1/9/2002	11,000 E
5/8/2002	20,000 E
10/21/2008	1,130
5/21/2009	429
10/14/2009	358
4/28/2010	387
10/20/2010	514
4/28/2011	73
10/26/2011	82.3
5/1/2012	103
10/10/2012	163
5/16/2013	215
10/19/2016	249
5/31/2017	58.3
10/11/2017	171
10/10/2018	242
9/16/2020	132
5/19/2021	18.8

FAG-35	
Date	Result ug/L
10/6/1999	640
10/5/2002	620
10/23/2008	484
4/29/2009	510
10/15/2009	542
4/28/2010	602
10/20/2010	446
4/27/2011	583
10/27/2011	499
5/2/2012	436
10/11/2012	467
5/15/2013	429
10/19/2016	516
5/31/2017	432
10/11/2017	543
10/10/2018	597
9/16/2020	512
5/18/2021	488

FAG-34	
Date	Result ug/L
10/6/1999	1,200
10/7/2002	1,100
10/22/2008	882
4/29/2009	992
10/14/2009	804 J
4/27/2010	777
10/20/2010	712
4/27/2011	777
10/27/2011	761
5/2/2012	758
10/11/2012	820
5/15/2013	713
10/19/2016	574
5/25/2017	809
10/11/2017	644
10/10/2018	762
9/16/2020	500
5/19/2021	462

FAG-36	
Date	Result ug/L
10/6/1999	750
10/7/2002	490
10/22/2008	565
5/20/2009	166
10/16/2009	366
4/28/2010	477
10/21/2010	286
4/27/2011	594
10/27/2011	524
5/3/2012	456
10/11/2012	508
5/15/2013	567
10/20/2016	566
5/31/2017	585
10/11/2017	676
10/10/2018	672
9/16/2020	531
5/19/2021	535

FAG-43	
Date	Result ug/L
10/5/1999	180
10/6/2002	110
10/21/2008	338
4/28/2009	275
10/15/2009	438
4/30/2010	330
10/19/2010	395
4/26/2011	313
10/26/2011	289
5/3/2012	1.0 U
10/10/2012	12.2
5/15/2013	1.0 U
10/19/2016	50.6
5/30/2017	1.0 U
10/11/2017	34.9
10/10/2018	1.0 U
9/16/2020	66.4
5/18/2021	1.0 U

FAG-46	
Date	Result ug/L
10/7/1999	510 D
10/21/2008	202
4/28/2009	167
10/15/2009	119
4/29/2010	107
10/19/2010	146
4/26/2011	134
10/27/2011	135
5/3/2012	103
10/10/2012	130
5/14/2013	70.2
10/18/2016	50.6
5/27/2017	47.9
10/11/2017	53.5
10/9/2018	56.9
9/16/2020	39
5/18/2021	27.7

FAG-85	
Date	Result ug/L
10/6/2002	1,100
10/23/2008	244
5/20/2009	161 J
10/16/2009	580
4/30/2010	177
10/19/2010	6.4
4/27/2011	692
10/25/2011	650 J
5/2/2012	637
10/9/2012	671
5/15/2013	596
10/19/2016	146
5/31/2017	527
10/11/2017	442
10/11/2018	794
9/17/2020	345
5/21/2021	610

RI-MW1	
Date	Result ug/L
10/8/2002	0.53 J
10/22/2008	54.5
4/28/2009	51.4
10/15/2009	36.0 J
4/30/2010	53.2
10/19/2010	78.5
4/26/2011	80.7
10/28/2011	55.1
5/3/2012	41.2
10/10/2012	55.0
5/14/2013	85.1
10/18/2016	52.8
5/25/2017	96.4
10/8/2017	47.4
10/10/2018	99.7
9/15/2020	47.5
5/19/2021	68.3

RI-MW2	
Date	Result ug/L
10/8/2002	49.0
10/22/2008	1.0 U
4/27/2009	1.0 U
10/15/2009	1.0 U
4/29/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/26/2011	1.0 U
5/3/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

FAG-47	
Date	Result ug/L
10/5/1999	400
10/6/2002	270
10/21/2008	160
4/29/2009	66.5
10/13/2009	131
4/27/2010	119
10/20/2010	165
4/27/2011	140
10/27/2011	136
5/3/2012	116
10/9/2012	122
5/14/2013	93.4
10/18/2016	76.9
5/27/2017	69.2
10/8/2017	103
10/9/2018	63.3
9/15/2020	97.9
5/18/2021	55.4

FAG-50	
Date	Result ug/L
10/6/1999	10,000
5/4/2000	11,000
10/7/2002	1,200
10/21/2008	4,130
5/20/2009	7,030
12/16/2009	3,220
4/28/2010	3,590
4/27/2011	1,040
10/25/2011	1,350
5/3/2012	957
10/10/2012	1,290
5/15/2013	2,160
10/20/2016	2,610
5/31/2017	2,760
10/8/2017	NS
10/11/2017	NS
9/15/2020	NS
5/19/2021	3,220

FAG-62	
Date	Result ug/L
10/7/1999	190
4/4/2000	1,500
10/7/2002	940
10/23/2008	413
4/29/2009	121
10/13/2009	126
4/29/2010	462
10/20/2010	294
4/27/2011	51.7
10/26/2011	185
5/1/2012	64.9
10/10/2012	103
5/15/2013	167
10/19/2016	33.6
5/27/2017	16.9
10/8/2017	NS
10/11/2018	NS
9/15/2020	NS
5/18/2021	23.9

FAG-33	
Date	Result ug/L
10/6/1999	7.0
10/4/2002	15.0
10/20/2008	19.5
4/28/2009	20.5
10/14/2009	20.2
4/27/2010	26.6
10/20/2010	26.1
4/27/2011	29.2
10/27/2011	20.2
5/2/2012	19.7
10/11/2012	17.3
5/14/2013	23.9
10/18/2016	28.1
5/27/2017	31.7
10/8/2017	31.0
10/9/2018	29.6
9/15/2020	28.3
5/18/2021	28.9

- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER
- E = EXCEEDS CALIBRATION RANGE
- J = ESTIMATED CONCENTRATION
- D = DILUTED
- U = NOT DETECTED
- NS = NOT SAMPLED; INSUFFICIENT WATER

UPPERMOST GROUNDWATER ANALYTICAL RESULTS TRICHLOROETHENE (TCE) 1999 TO 2021

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 4-1A

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

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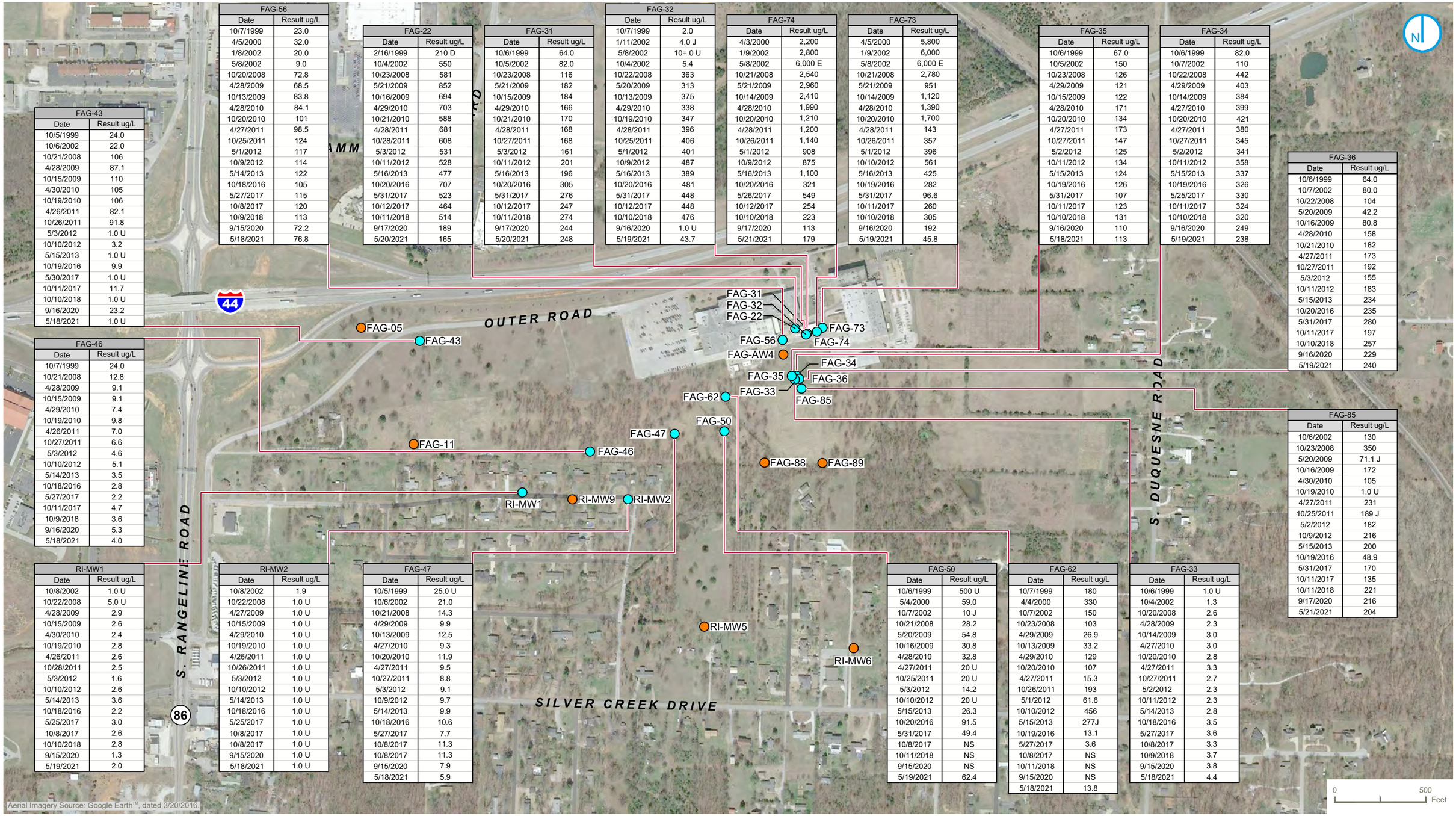
DESIGNER: CKL
DATED: 9/1/2021
PROJECT: 1690004605



FAG-56	
Date	Result ug/L
10/7/1999	23.0
4/5/2000	32.0
1/8/2002	20.0
5/8/2002	9.0
10/20/2008	72.8
4/28/2009	68.5
10/13/2009	83.8
4/28/2010	84.1
10/20/2010	101
4/27/2011	98.5
10/25/2011	124
5/1/2012	117
10/9/2012	114
5/14/2013	122
10/18/2016	105
5/27/2017	115
10/8/2017	120
10/9/2018	113
9/15/2020	72.2
5/18/2021	76.8

FAG-22	
Date	Result ug/L
2/16/1999	210 D
10/4/2002	550
10/23/2008	581
5/21/2009	852
10/16/2009	694
4/29/2010	703
10/21/2010	588
4/28/2011	681
10/28/2011	608
5/3/2012	531
10/11/2012	528
5/16/2013	477
10/20/2016	707
5/31/2017	523
10/12/2017	464
10/11/2018	514
9/17/2020	189
5/20/2021	165

FAG-31	
Date	Result ug/L
10/6/1999	64.0
10/5/2002	82.0
10/23/2008	116
5/21/2009	182
10/15/2009	184
4/29/2010	166
10/21/2010	170
4/28/2011	168
10/27/2011	168
5/3/2012	161
10/11/2012	201
5/16/2013	196
10/20/2016	305
5/31/2017	276
10/12/2017	247
10/11/2018	274
9/17/2020	244
5/20/2021	248

FAG-32	
Date	Result ug/L
10/7/1999	2.0
1/11/2002	4.0 J
5/8/2002	10=.0 U
10/4/2002	5.4
10/22/2008	363
5/20/2009	313
10/13/2009	375
4/29/2010	338
10/19/2010	347
4/28/2011	396
10/25/2011	406
5/1/2012	401
10/9/2012	487
5/16/2013	389
10/20/2016	481
5/31/2017	448
10/12/2017	448
10/10/2018	476
9/16/2020	1.0 U
5/19/2021	43.7

FAG-74	
Date	Result ug/L
4/3/2000	2,200
1/9/2002	2,800
5/8/2002	6,000 E
10/21/2008	2,540
5/21/2009	2,960
10/14/2009	2,410
4/28/2010	1,990
10/20/2010	1,210
4/28/2011	1,200
10/26/2011	1,140
5/1/2012	908
10/9/2012	875
5/16/2013	1,100
10/20/2016	321
5/26/2017	549
10/12/2017	254
10/10/2018	223
9/17/2020	113
5/21/2021	179

FAG-73	
Date	Result ug/L
4/5/2000	5,800
1/9/2002	6,000
5/8/2002	6,000 E
10/21/2008	2,780
5/21/2009	951
10/14/2009	1,120
4/28/2010	1,390
10/20/2010	1,700
4/28/2011	143
10/26/2011	357
5/1/2012	396
10/10/2012	561
5/16/2013	425
10/19/2016	282
5/31/2017	96.6
10/11/2017	260
10/10/2018	305
9/16/2020	192
5/19/2021	45.8

FAG-35	
Date	Result ug/L
10/6/1999	67.0
10/5/2002	150
10/23/2008	126
4/29/2009	121
10/15/2009	122
4/28/2010	171
10/20/2010	134
4/27/2011	173
10/27/2011	147
5/2/2012	125
10/11/2012	134
5/15/2013	124
10/19/2016	126
5/31/2017	107
10/11/2017	123
10/10/2018	131
9/16/2020	110
5/18/2021	113

FAG-34	
Date	Result ug/L
10/6/1999	82.0
10/7/2002	110
10/22/2008	442
4/29/2009	403
10/14/2009	384
4/27/2010	399
10/20/2010	421
4/27/2011	380
10/27/2011	345
5/2/2012	341
10/11/2012	358
5/15/2013	337
10/19/2016	326
5/25/2017	330
10/11/2017	324
10/10/2018	320
9/16/2020	249
5/19/2021	238

FAG-36	
Date	Result ug/L
10/6/1999	64.0
10/7/2002	80.0
10/22/2008	104
5/20/2009	42.2
10/16/2009	80.8
4/28/2010	158
10/21/2010	182
4/27/2011	173
10/27/2011	192
5/3/2012	155
10/11/2012	183
5/15/2013	234
10/20/2016	235
5/31/2017	280
10/11/2017	197
10/10/2018	257
9/16/2020	229
5/19/2021	240

FAG-43	
Date	Result ug/L
10/5/1999	24.0
10/6/2002	22.0
10/21/2008	106
4/28/2009	87.1
10/15/2009	110
4/30/2010	105
10/19/2010	106
4/26/2011	82.1
10/26/2011	91.8
5/3/2012	1.0 U
10/10/2012	3.2
5/15/2013	1.0 U
10/19/2016	9.9
5/30/2017	1.0 U
10/11/2017	11.7
10/10/2018	1.0 U
9/16/2020	23.2
5/18/2021	1.0 U

FAG-46	
Date	Result ug/L
10/7/1999	24.0
10/21/2008	12.8
4/28/2009	9.1
10/15/2009	9.1
4/29/2010	7.4
10/19/2010	9.8
4/26/2011	7.0
10/27/2011	6.6
5/3/2012	4.6
10/10/2012	5.1
5/14/2013	3.5
10/18/2016	2.8
5/27/2017	2.2
10/11/2017	4.7
10/9/2018	3.6
9/16/2020	5.3
5/18/2021	4.0

FAG-85	
Date	Result ug/L
10/6/2002	130
10/23/2008	350
5/20/2009	71.1 J
10/16/2009	172
4/30/2010	105
10/19/2010	1.0 U
4/27/2011	231
10/25/2011	189 J
5/2/2012	182
10/9/2012	216
5/15/2013	200
10/19/2016	48.9
5/31/2017	170
10/11/2017	135
10/11/2018	221
9/17/2020	216
5/21/2021	204

RI-MW1	
Date	Result ug/L
10/8/2002	1.0 U
10/22/2008	5.0 U
4/28/2009	2.9
10/15/2009	2.6
4/30/2010	2.4
10/19/2010	2.8
4/26/2011	2.6
10/28/2011	2.5
5/3/2012	1.6
10/10/2012	2.6
5/14/2013	3.6
10/18/2016	2.2
5/25/2017	3.0
10/8/2017	2.6
10/10/2018	2.8
9/15/2020	1.3
5/19/2021	2.0

RI-MW2	
Date	Result ug/L
10/8/2002	1.9
10/22/2008	1.0 U
4/27/2009	1.0 U
10/15/2009	1.0 U
4/29/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/26/2011	1.0 U
5/3/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/8/2017	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

FAG-47	
Date	Result ug/L
10/5/1999	25.0 U
10/6/2002	21.0
10/21/2008	14.3
4/29/2009	9.9
10/13/2009	12.5
4/27/2010	9.3
10/20/2010	11.9
4/27/2011	9.5
10/27/2011	8.8
5/3/2012	9.1
10/9/2012	9.7
5/14/2013	9.9
10/18/2016	10.6
5/27/2017	7.7
10/8/2017	11.3
10/8/2017	11.3
9/15/2020	7.9
5/18/2021	5.9

FAG-50	
Date	Result ug/L
10/6/1999	500 U
5/4/2000	59.0
10/7/2002	10 J
10/21/2008	28.2
5/20/2009	54.8
10/16/2009	30.8
4/28/2010	32.8
4/27/2011	20 U
10/25/2011	20 U
5/3/2012	14.2
10/10/2012	20 U
5/15/2013	26.3
10/20/2016	91.5
5/31/2017	49.4
10/8/2017	NS
10/11/2018	NS
9/15/2020	NS
5/19/2021	62.4

FAG-62	
Date	Result ug/L
10/7/1999	180
4/4/2000	330
10/7/2002	150
10/23/2008	103
4/29/2009	26.9
10/13/2009	33.2
4/29/2010	129
10/20/2010	107
4/27/2011	15.3
10/26/2011	193
5/1/2012	61.6
10/10/2012	456
5/15/2013	277J
10/19/2016	13.1
5/27/2017	3.6
10/8/2017	NS
10/11/2018	NS
9/15/2020	NS
5/18/2021	13.8

FAG-33	
Date	Result ug/L
10/6/1999	1.0 U
10/4/2002	1.3
10/20/2008	2.6
4/28/2009	2.3
10/14/2009	3.0
4/27/2010	3.0
10/20/2010	2.8
4/27/2011	3.3
10/27/2011	2.7
5/2/2012	2.3
10/11/2012	2.3
5/14/2013	2.8
10/18/2016	3.5
5/27/2017	3.6
10/8/2017	3.3
10/9/2018	3.7
9/15/2020	3.8
5/18/2021	4.4

- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER
- E = EXCEEDS CALIBRATION RANGE
- J = ESTIMATED CONCENTRATION
- D = DILUTED
- U = NOT DETECTED
- NS = NOT SAMPLED; INSUFFICIENT WATER

UPPERMOST GROUNDWATER ANALYTICAL RESULTS CIS-1,2-DICHLOROETHENE (DCE) 1999 TO 2021

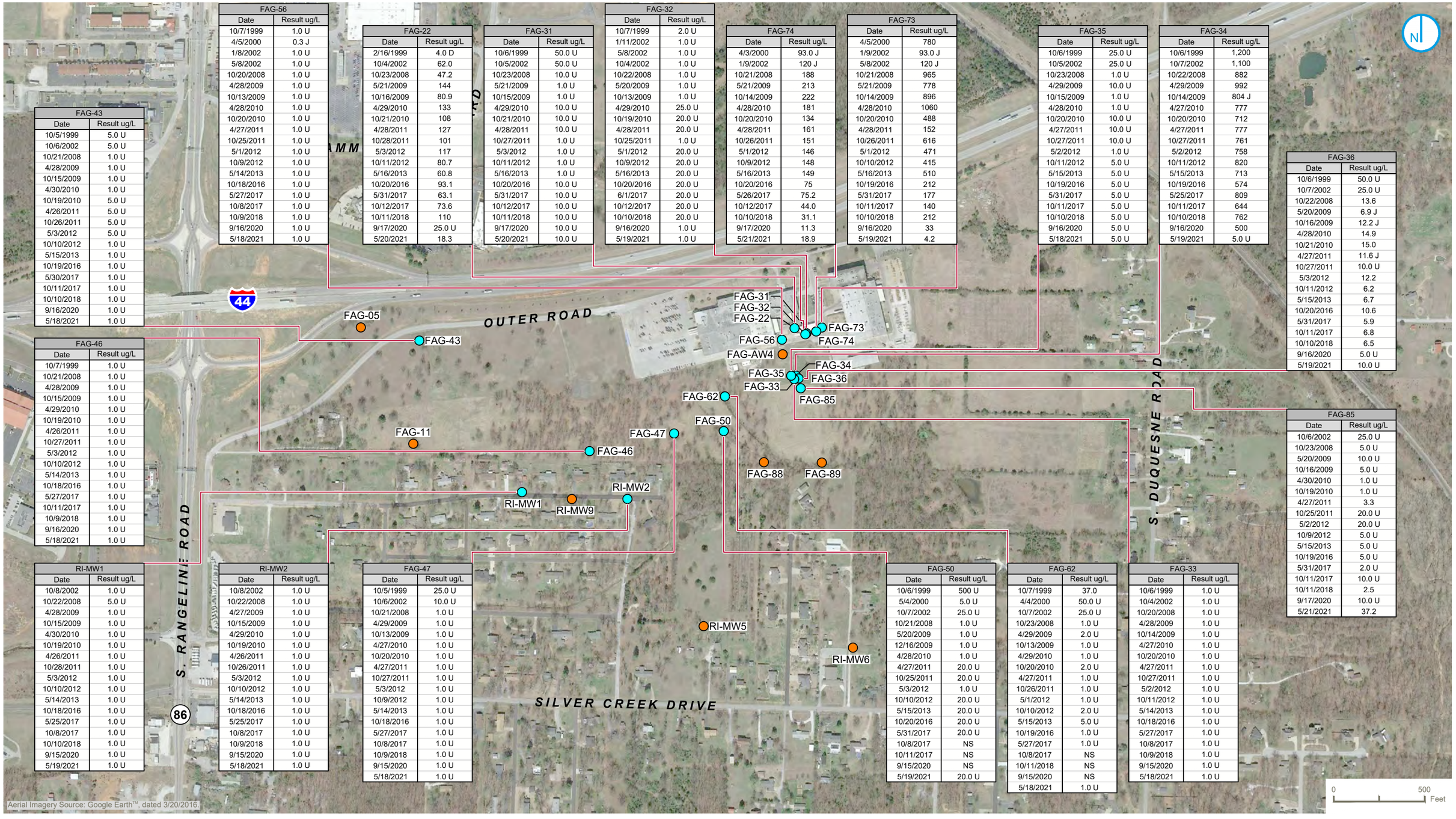
NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 4-1B

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

PROJECT: 1690004605 DATED: 9/1/2021 DESIGNER: CKL
L:\Loop Project Files_CAD\1690004605_FAG Bearings_202114-1B_UM GW Analytical Results-DCE.dwg



FAG-56	
Date	Result ug/L
10/7/1999	1.0 U
4/5/2000	0.3 J
1/8/2002	1.0 U
5/8/2002	1.0 U
10/20/2008	1.0 U
4/28/2009	1.0 U
10/13/2009	1.0 U
4/28/2010	1.0 U
10/20/2010	1.0 U
4/27/2011	1.0 U
10/25/2011	1.0 U
5/1/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/27/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/16/2020	1.0 U
5/18/2021	1.0 U

FAG-22	
Date	Result ug/L
2/16/1999	4.0 D
10/4/2002	62.0
10/23/2008	47.2
5/21/2009	144
10/16/2009	80.9
4/29/2010	133
10/21/2010	108
4/28/2011	127
10/28/2011	101
5/3/2012	117
10/11/2012	80.7
5/16/2013	60.8
10/20/2016	93.1
5/31/2017	63.1
10/12/2017	73.6
10/11/2018	110
9/17/2020	25.0 U
5/20/2021	18.3

FAG-31	
Date	Result ug/L
10/6/1999	50.0 U
10/5/2002	50.0 U
10/23/2008	10.0 U
5/21/2009	1.0 U
10/15/2009	1.0 U
4/29/2010	10.0 U
10/21/2010	10.0 U
4/28/2011	10.0 U
10/27/2011	1.0 U
5/3/2012	1.0 U
10/11/2012	1.0 U
5/16/2013	1.0 U
10/20/2016	10.0 U
5/31/2017	10.0 U
10/12/2017	10.0 U
10/11/2018	10.0 U
9/17/2020	10.0 U
5/20/2021	10.0 U

FAG-32	
Date	Result ug/L
10/7/1999	2.0 U
1/11/2002	1.0 U
5/8/2002	1.0 U
10/4/2002	1.0 U
10/22/2008	1.0 U
5/20/2009	1.0 U
10/13/2009	1.0 U
4/29/2010	25.0 U
10/19/2010	20.0 U
4/28/2011	20.0 U
10/25/2011	1.0 U
5/1/2012	20.0 U
10/9/2012	20.0 U
5/16/2013	20.0 U
10/20/2016	20.0 U
6/1/2017	20.0 U
10/12/2017	20.0 U
10/10/2018	20.0 U
9/16/2020	1.0 U
5/19/2021	1.0 U

FAG-74	
Date	Result ug/L
4/3/2000	93.0 J
1/9/2002	120 J
10/21/2008	188
5/21/2009	213
10/14/2009	222
4/28/2010	181
10/20/2010	134
4/28/2011	161
10/26/2011	151
5/1/2012	146
10/9/2012	148
5/16/2013	149
10/20/2016	75
5/26/2017	75.2
10/12/2017	44.0
10/10/2018	31.1
9/17/2020	11.3
5/21/2021	18.9

FAG-73	
Date	Result ug/L
4/5/2000	780
1/9/2002	93.0 J
5/8/2002	120 J
10/21/2008	965
5/21/2009	778
10/14/2009	896
4/28/2010	1060
10/20/2010	488
4/28/2011	152
10/26/2011	616
5/1/2012	471
10/10/2012	415
5/16/2013	510
10/19/2016	212
5/31/2017	177
10/11/2017	140
10/10/2018	212
9/16/2020	33
5/19/2021	4.2

FAG-35	
Date	Result ug/L
10/6/1999	25.0 U
10/5/2002	25.0 U
10/23/2008	1.0 U
4/29/2009	10.0 U
10/15/2009	1.0 U
4/28/2010	1.0 U
10/20/2010	10.0 U
4/27/2011	10.0 U
10/27/2011	10.0 U
5/2/2012	1.0 U
10/11/2012	5.0 U
5/15/2013	5.0 U
10/19/2016	5.0 U
5/31/2017	5.0 U
10/11/2017	5.0 U
10/10/2018	5.0 U
9/16/2020	5.0 U
5/18/2021	5.0 U

FAG-34	
Date	Result ug/L
10/6/1999	1,200
10/7/2002	1,100
10/22/2008	882
4/29/2009	992
10/14/2009	804 J
4/27/2010	777
10/20/2010	712
4/27/2011	777
10/27/2011	761
5/2/2012	758
10/11/2012	820
5/15/2013	713
10/19/2016	574
5/25/2017	809
10/11/2017	644
10/10/2018	762
9/16/2020	500
5/19/2021	5.0 U

FAG-36	
Date	Result ug/L
10/6/1999	50.0 U
10/7/2002	25.0 U
10/22/2008	13.6
5/20/2009	6.9 J
10/16/2009	12.2 J
4/28/2010	14.9
10/21/2010	15.0
4/27/2011	11.6 J
10/27/2011	10.0 U
5/3/2012	12.2
10/11/2012	6.2
5/15/2013	6.7
10/20/2016	10.6
5/31/2017	5.9
10/11/2017	6.8
10/10/2018	6.5
9/16/2020	5.0 U
5/19/2021	10.0 U

FAG-85	
Date	Result ug/L
10/6/2002	25.0 U
10/23/2008	5.0 U
5/20/2009	10.0 U
10/16/2009	5.0 U
4/30/2010	1.0 U
10/19/2010	1.0 U
4/27/2011	3.3
10/25/2011	20.0 U
5/2/2012	20.0 U
10/9/2012	5.0 U
5/15/2013	5.0 U
10/19/2016	5.0 U
5/31/2017	2.0 U
10/11/2017	10.0 U
10/11/2018	2.5
9/17/2020	10.0 U
5/21/2021	37.2

FAG-43	
Date	Result ug/L
10/5/1999	5.0 U
10/6/2002	5.0 U
10/21/2008	1.0 U
4/28/2009	1.0 U
10/15/2009	1.0 U
4/30/2010	1.0 U
10/19/2010	5.0 U
4/26/2011	5.0 U
10/26/2011	5.0 U
5/3/2012	5.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/19/2016	1.0 U
5/30/2017	1.0 U
10/11/2017	1.0 U
10/10/2018	1.0 U
9/16/2020	1.0 U
5/18/2021	1.0 U

FAG-46	
Date	Result ug/L
10/7/1999	1.0 U
10/21/2008	1.0 U
4/28/2009	1.0 U
10/15/2009	1.0 U
4/29/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/27/2011	1.0 U
5/3/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/27/2017	1.0 U
10/11/2017	1.0 U
10/9/2018	1.0 U
9/16/2020	1.0 U
5/18/2021	1.0 U

RI-MW1	
Date	Result ug/L
10/8/2002	1.0 U
10/22/2008	5.0 U
4/28/2009	1.0 U
10/15/2009	1.0 U
4/30/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/28/2011	1.0 U
5/3/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/10/2018	1.0 U
9/15/2020	1.0 U
5/19/2021	1.0 U

RI-MW2	
Date	Result ug/L
10/8/2002	1.0 U
10/22/2008	1.0 U
4/27/2009	1.0 U
10/15/2009	1.0 U
4/29/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/26/2011	1.0 U
5/3/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

FAG-47	
Date	Result ug/L
10/5/1999	25.0 U
10/6/2002	10.0 U
10/21/2008	1.0 U
4/29/2009	1.0 U
10/13/2009	1.0 U
4/27/2010	1.0 U
10/20/2010	1.0 U
4/27/2011	1.0 U
10/27/2011	1.0 U
5/3/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/27/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

FAG-50	
Date	Result ug/L
10/6/1999	500 U
5/4/2000	5.0 U
10/7/2002	25.0 U
10/21/2008	1.0 U
5/20/2009	1.0 U
12/16/2009	1.0 U
4/28/2010	1.0 U
4/27/2011	20.0 U
10/25/2011	20.0 U
5/3/2012	1.0 U
10/10/2012	20.0 U
5/15/2013	20.0 U
10/20/2016	20.0 U
5/31/2017	20.0 U
10/8/2017	NS
10/11/2017	NS
9/15/2020	NS
5/19/2021	20.0 U

FAG-62	
Date	Result ug/L
10/7/1999	37.0
4/4/2000	50.0 U
10/7/2002	25.0 U
10/23/2008	1.0 U
4/29/2009	2.0 U
10/13/2009	1.0 U
4/29/2010	1.0 U
10/20/2010	2.0 U
4/27/2011	1.0 U
10/26/2011	1.0 U
5/1/2012	1.0 U
10/10/2012	2.0 U
5/15/2013	5.0 U
10/19/2016	1.0 U
5/27/2017	1.0 U
10/8/2017	NS
10/11/2018	NS
9/15/2020	NS
5/18/2021	1.0 U

FAG-33	
Date	Result ug/L
10/6/1999	1.0 U
10/4/2002	1.0 U
10/20/2008	1.0 U
4/28/2009	1.0 U
10/14/2009	1.0 U
4/27/2010	1.0 U
10/20/2010	1.0 U
4/27/2011	1.0 U
10/27/2011	1.0 U
5/2/2012	1.0 U
10/11/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/27/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER
- J = ESTIMATED CONCENTRATION
- U = NOT DETECTED
- NS = NOT SAMPLED; INSUFFICIENT WATER

UPPERMOST GROUNDWATER ANALYTICAL RESULTS VINYL CHLORIDE (VC) 1999 TO 2021

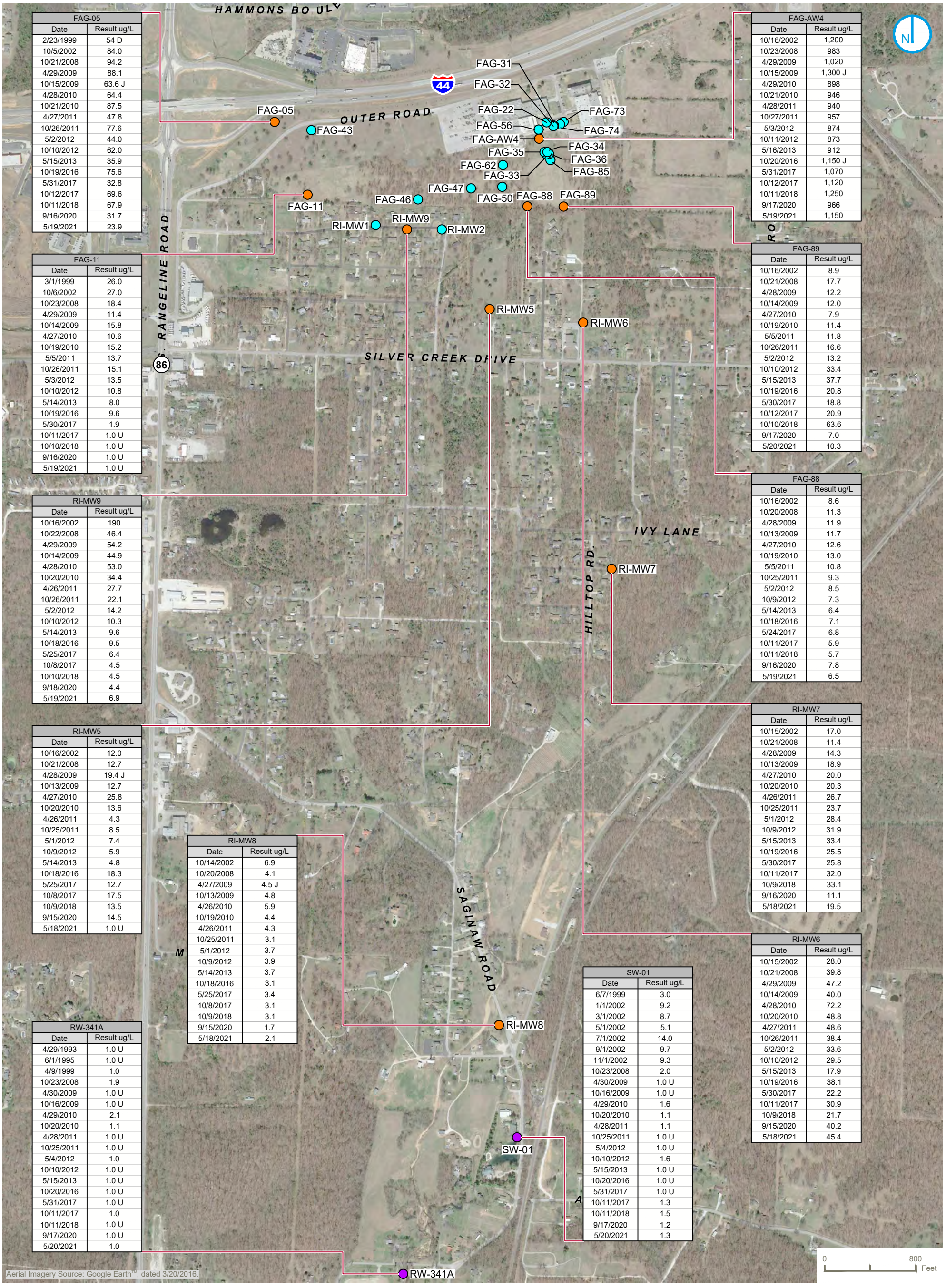
NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 4-1C

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

PROJECT: 169000460S DATED: 9/1/2021 DESIGNER: CKL
L:\Loop Project Files_CAD\169000460S_FAG Bearings_202114-1C_UM GW Analytical Results-VC.dwg



FAG-05	
Date	Result ug/L
2/23/1999	54 D
10/5/2002	84.0
10/21/2008	94.2
4/29/2009	88.1
10/15/2009	63.6 J
4/28/2010	64.4
10/21/2010	87.5
4/27/2011	47.8
10/26/2011	77.6
5/2/2012	44.0
10/10/2012	62.0
5/15/2013	35.9
10/19/2016	75.6
5/31/2017	32.8
10/12/2017	69.6
10/11/2018	67.9
9/16/2020	31.7
5/19/2021	23.9

FAG-11	
Date	Result ug/L
3/1/1999	26.0
10/6/2002	27.0
10/23/2008	18.4
4/29/2009	11.4
10/14/2009	15.8
4/27/2010	10.6
10/19/2010	15.2
5/5/2011	13.7
10/26/2011	15.1
5/3/2012	13.5
10/10/2012	10.8
5/14/2013	8.0
10/19/2016	9.6
5/30/2017	1.9
10/11/2017	1.0 U
10/10/2018	1.0 U
9/16/2020	1.0 U
5/19/2021	1.0 U

RI-MW9	
Date	Result ug/L
10/16/2002	190
10/22/2008	46.4
4/29/2009	54.2
10/14/2009	44.9
4/28/2010	53.0
10/20/2010	34.4
4/26/2011	27.7
10/26/2011	22.1
5/2/2012	14.2
10/10/2012	10.3
5/14/2013	9.6
10/18/2016	9.5
5/25/2017	6.4
10/8/2017	4.5
10/10/2018	4.5
9/18/2020	4.4
5/19/2021	6.9

RI-MW5	
Date	Result ug/L
10/16/2002	12.0
10/21/2008	12.7
4/28/2009	19.4 J
10/13/2009	12.7
4/27/2010	25.8
10/20/2010	13.6
4/26/2011	4.3
10/25/2011	8.5
5/1/2012	7.4
10/9/2012	5.9
5/14/2013	4.8
10/18/2016	18.3
5/25/2017	12.7
10/8/2017	17.5
10/9/2018	13.5
9/15/2020	14.5
5/18/2021	1.0 U

RW-341A	
Date	Result ug/L
4/29/1993	1.0 U
6/1/1995	1.0 U
4/9/1999	1.0
10/23/2008	1.9
4/30/2009	1.0 U
10/16/2009	1.0 U
4/29/2010	2.1
10/20/2010	1.1
4/28/2011	1.0 U
10/25/2011	1.0 U
5/4/2012	1.0
10/10/2012	1.0 U
5/15/2013	1.0 U
10/20/2016	1.0 U
5/31/2017	1.0 U
10/11/2017	1.0
10/11/2018	1.0 U
9/17/2020	1.0 U
5/20/2021	1.0

RI-MW8	
Date	Result ug/L
10/14/2002	6.9
10/20/2008	4.1
4/27/2009	4.5 J
10/13/2009	4.8
4/26/2010	5.9
10/19/2010	4.4
4/26/2011	4.3
10/25/2011	3.1
5/1/2012	3.7
10/9/2012	3.9
5/14/2013	3.7
10/18/2016	3.1
5/25/2017	3.4
10/8/2017	3.1
10/9/2018	3.1
9/15/2020	1.7
5/18/2021	2.1

SW-01	
Date	Result ug/L
6/7/1999	3.0
1/1/2002	9.2
3/1/2002	8.7
5/1/2002	5.1
7/1/2002	14.0
9/1/2002	9.7
11/1/2002	9.3
10/23/2008	2.0
4/30/2009	1.0 U
10/16/2009	1.0 U
4/29/2010	1.6
10/20/2010	1.1
4/28/2011	1.1
10/25/2011	1.0 U
5/4/2012	1.0 U
10/10/2012	1.6
5/15/2013	1.0 U
10/20/2016	1.0 U
5/31/2017	1.0 U
10/11/2017	1.3
10/11/2018	1.5
9/17/2020	1.2
5/20/2021	1.3

FAG-AW4	
Date	Result ug/L
10/16/2002	1,200
10/23/2008	983
4/29/2009	1,020
10/15/2009	1,300 J
4/29/2010	898
10/21/2010	946
4/28/2011	940
10/27/2011	957
5/3/2012	874
10/11/2012	873
5/16/2013	912
10/20/2016	1,150 J
5/31/2017	1,070
10/12/2017	1,120
10/11/2018	1,250
9/17/2020	966
5/19/2021	1,150

FAG-89	
Date	Result ug/L
10/16/2002	8.9
10/21/2008	17.7
4/28/2009	12.2
10/14/2009	12.0
4/27/2010	7.9
10/19/2010	11.4
5/5/2011	11.8
10/26/2011	16.6
5/2/2012	13.2
10/10/2012	33.4
5/15/2013	37.7
10/19/2016	20.8
5/30/2017	18.8
10/12/2017	20.9
10/10/2018	63.6
9/17/2020	7.0
5/20/2021	10.3

FAG-88	
Date	Result ug/L
10/16/2002	8.6
10/20/2008	11.3
4/28/2009	11.9
10/13/2009	11.7
4/27/2010	12.6
10/19/2010	13.0
5/5/2011	10.8
10/25/2011	9.3
5/2/2012	8.5
10/9/2012	7.3
5/14/2013	6.4
10/18/2016	7.1
5/24/2017	6.8
10/11/2017	5.9
10/11/2018	5.7
9/16/2020	7.8
5/19/2021	6.5

RI-MW7	
Date	Result ug/L
10/15/2002	17.0
10/21/2008	11.4
4/28/2009	14.3
10/13/2009	18.9
4/27/2010	20.0
10/20/2010	20.3
4/26/2011	26.7
10/25/2011	23.7
5/1/2012	28.4
10/9/2012	31.9
5/15/2013	33.4
10/19/2016	25.5
5/30/2017	25.8
10/11/2017	32.0
10/9/2018	33.1
9/16/2020	11.1
5/18/2021	19.5

RI-MW6	
Date	Result ug/L
10/15/2002	28.0
10/21/2008	39.8
4/29/2009	47.2
10/14/2009	40.0
4/28/2010	72.2
10/20/2010	48.8
4/27/2011	48.6
10/26/2011	38.4
5/2/2012	33.6
10/10/2012	29.5
5/15/2013	17.9
10/19/2016	38.1
5/30/2017	22.2
10/11/2017	30.9
10/9/2018	21.7
9/15/2020	40.2
5/18/2021	45.4

- SURFACE WATER
- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER

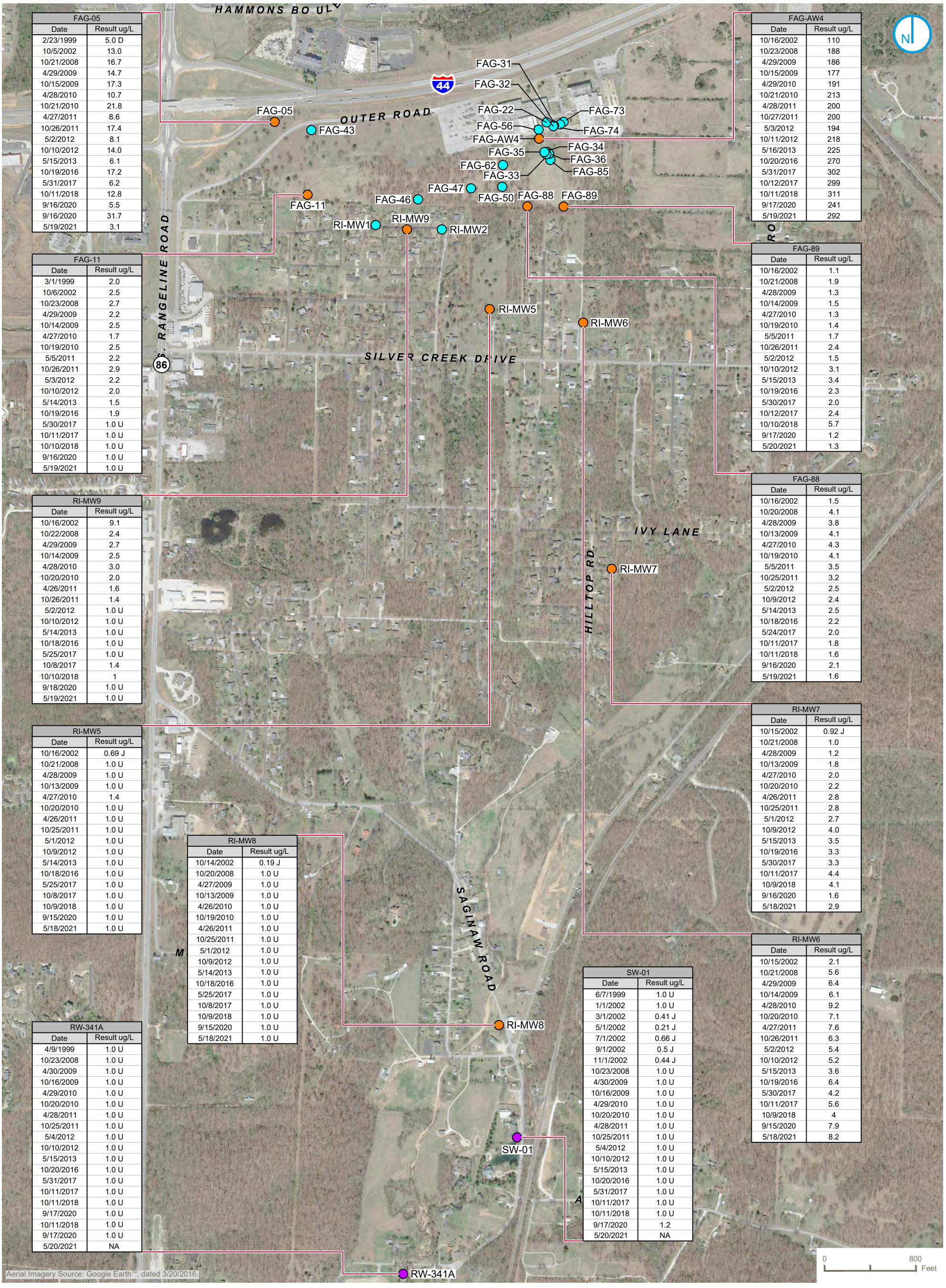
E = EXCEEDS CALIBRATION RANGE
J = ESTIMATED CONCENTRATION
D = DILUTED
U = NOT DETECTED
NS = NOT SAMPLED; INSUFFICIENT WATER

SPRING WATER AND MISSISSIPPIAN AQUIFER ANALYTICAL RESULTS TRICHLOROETHENE (TCE) - 1999 TO 2021

FIGURE 4-2A

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



FAG-05	
Date	Result ug/L
2/23/1999	5.0 D
10/5/2002	13.0
10/21/2008	16.7
4/29/2009	14.7
10/15/2009	17.3
4/28/2010	10.7
10/21/2010	21.8
4/27/2011	8.6
10/26/2011	17.4
5/2/2012	8.1
10/10/2012	14.0
5/15/2013	6.1
10/19/2016	17.2
5/31/2017	6.2
10/11/2018	12.8
9/16/2020	5.5
9/16/2020	31.7
5/19/2021	3.1

FAG-AW4	
Date	Result ug/L
10/16/2002	110
10/23/2008	188
4/29/2009	186
10/15/2009	177
4/29/2010	191
10/21/2010	213
4/28/2011	200
10/27/2011	200
5/3/2012	194
10/11/2012	218
5/16/2013	225
10/20/2016	270
5/31/2017	302
10/12/2017	299
10/11/2018	311
9/17/2020	241
5/19/2021	292

FAG-11	
Date	Result ug/L
3/1/1999	2.0
10/6/2002	2.5
10/23/2008	2.7
4/29/2009	2.2
10/14/2009	2.5
4/27/2010	1.7
10/19/2010	2.5
5/5/2011	2.2
10/26/2011	2.9
5/3/2012	2.2
10/10/2012	2.0
5/14/2013	1.5
10/19/2016	1.9
5/30/2017	1.0 U
10/11/2017	1.0 U
10/10/2018	1.0 U
9/16/2020	1.0 U
5/19/2021	1.0 U

FAG-89	
Date	Result ug/L
10/16/2002	1.1
10/21/2008	1.9
4/28/2009	1.3
10/14/2009	1.5
4/27/2010	1.3
10/19/2010	1.4
5/5/2011	1.7
10/26/2011	2.4
5/2/2012	1.5
10/10/2012	3.1
5/15/2013	3.4
10/19/2016	2.3
5/30/2017	2.0
10/12/2017	2.4
10/10/2018	5.7
9/17/2020	1.2
5/20/2021	1.3

RI-MW9	
Date	Result ug/L
10/16/2002	9.1
10/22/2008	2.4
4/29/2009	2.7
10/14/2009	2.5
4/28/2010	3.0
10/20/2010	2.0
4/26/2011	1.6
10/26/2011	1.4
5/2/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.4
10/10/2018	1
9/18/2020	1.0 U
5/19/2021	1.0 U

FAG-88	
Date	Result ug/L
10/16/2002	1.5
10/20/2008	4.1
4/28/2009	3.8
10/13/2009	4.1
4/27/2010	4.3
10/19/2010	4.1
5/5/2011	3.5
10/25/2011	3.2
5/2/2012	2.5
10/9/2012	2.4
5/14/2013	2.5
10/18/2016	2.2
5/24/2017	2.0
10/11/2017	1.8
10/11/2018	1.6
9/16/2020	2.1
5/19/2021	1.6

RI-MW5	
Date	Result ug/L
10/16/2002	0.69 J
10/21/2008	1.0 U
4/28/2009	1.0 U
10/13/2009	1.0 U
4/27/2010	1.4
10/20/2010	1.0 U
4/26/2011	1.0 U
10/25/2011	1.0 U
5/1/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

RI-MW7	
Date	Result ug/L
10/15/2002	0.92 J
10/21/2008	1.0
4/28/2009	1.2
10/13/2009	1.8
4/27/2010	2.0
10/20/2010	2.2
4/26/2011	2.8
10/25/2011	2.8
5/1/2012	2.7
10/9/2012	4.0
5/15/2013	3.5
10/19/2016	3.3
5/30/2017	3.3
10/11/2017	4.4
10/9/2018	4.1
9/16/2020	1.6
5/18/2021	2.9

RI-MW8	
Date	Result ug/L
10/14/2002	0.19 J
10/20/2008	1.0 U
4/27/2009	1.0 U
10/13/2009	1.0 U
4/26/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/25/2011	1.0 U
5/1/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

RI-MW6	
Date	Result ug/L
10/15/2002	2.1
10/21/2008	5.6
4/29/2009	6.4
10/14/2009	6.1
4/28/2010	9.2
10/20/2010	7.1
4/27/2011	7.6
10/26/2011	6.3
5/2/2012	5.4
10/10/2012	5.2
5/15/2013	3.6
10/19/2016	6.4
5/30/2017	4.2
10/11/2017	5.6
10/9/2018	4
9/15/2020	7.9
5/18/2021	8.2

SW-01	
Date	Result ug/L
6/7/1999	1.0 U
1/1/2002	1.0 U
3/1/2002	0.41 J
5/1/2002	0.21 J
7/1/2002	0.66 J
9/1/2002	0.5 J
11/1/2002	0.44 J
10/23/2008	1.0 U
4/30/2009	1.0 U
10/16/2009	1.0 U
4/29/2010	1.0 U
10/20/2010	1.0 U
4/28/2011	1.0 U
10/25/2011	1.0 U
5/4/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/20/2016	1.0 U
5/31/2017	1.0 U
10/11/2017	1.0 U
10/11/2018	1.0 U
9/17/2020	1.2
5/20/2021	NA

RW-341A	
Date	Result ug/L
4/9/1999	1.0 U
10/23/2008	1.0 U
4/30/2009	1.0 U
10/16/2009	1.0 U
4/29/2010	1.0 U
10/20/2010	1.0 U
4/28/2011	1.0 U
10/25/2011	1.0 U
5/4/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/20/2016	1.0 U
5/31/2017	1.0 U
10/11/2017	1.0 U
10/11/2018	1.0 U
9/17/2020	1.0 U
10/11/2018	1.0 U
9/17/2020	1.0 U
5/20/2021	NA

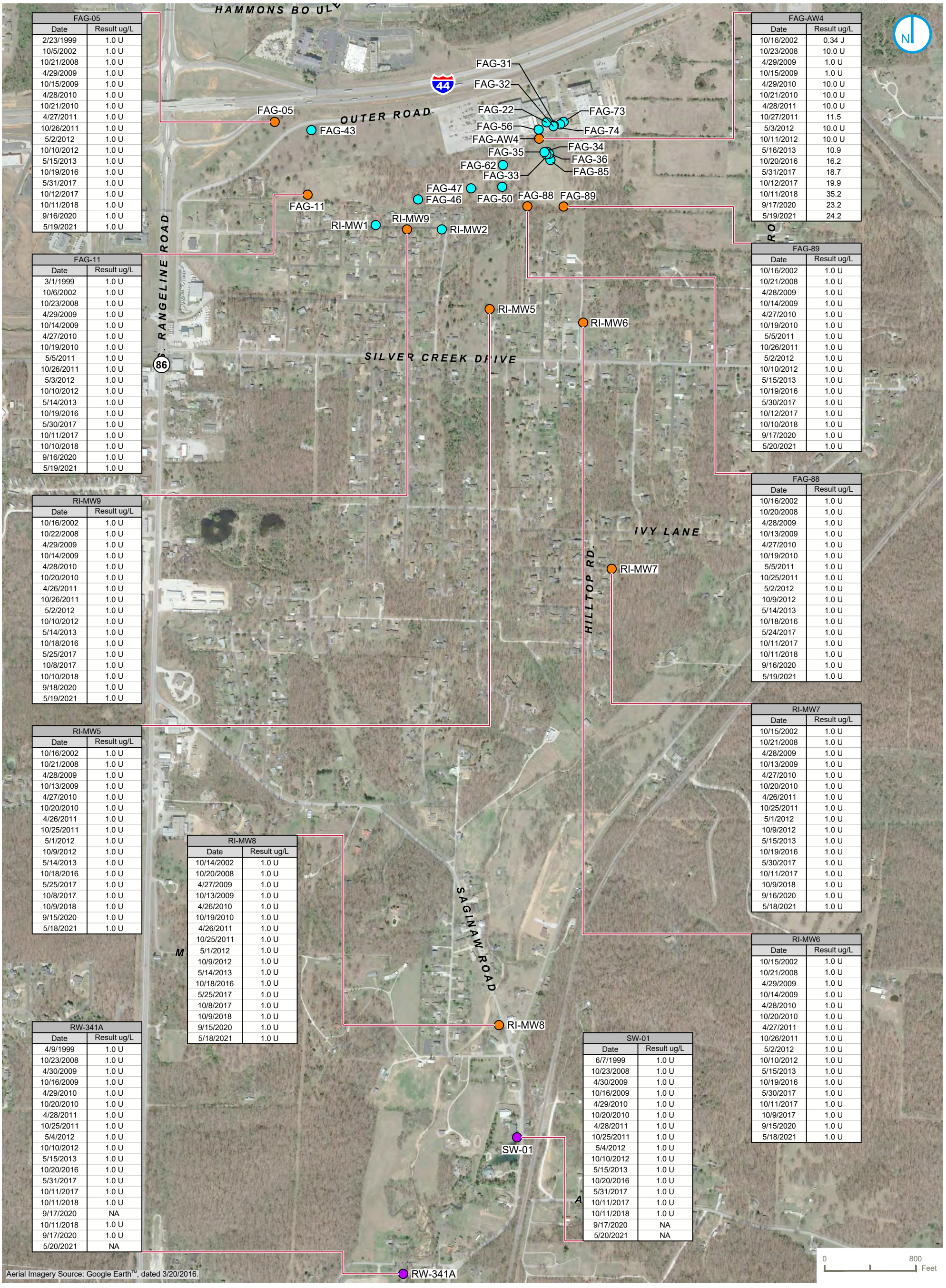
- SURFACE WATER
- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER
- E = EXCEEDS CALIBRATION RANGE
- J = ESTIMATED CONCENTRATION
- D = DILUTED
- U = NOT DETECTED
- NA = NOT ANALYZED

SPRING WATER AND MISSISSIPPIAN AQUIFER ANALYTICAL RESULTS CIS-1,2-DICHLOROETHENE (DCE) - 1999 TO 2021

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 4-2B

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



FAG-05	
Date	Result ug/L
2/23/1999	1.0 U
10/5/2002	1.0 U
10/21/2008	1.0 U
4/29/2009	1.0 U
10/15/2009	1.0 U
4/28/2010	1.0 U
10/21/2010	1.0 U
4/27/2011	1.0 U
10/26/2011	1.0 U
5/2/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/19/2016	1.0 U
5/31/2017	1.0 U
10/12/2017	1.0 U
10/11/2018	1.0 U
9/16/2020	1.0 U
5/19/2021	1.0 U

FAG-11	
Date	Result ug/L
3/1/1999	1.0 U
10/6/2002	1.0 U
10/23/2008	1.0 U
4/29/2009	1.0 U
10/14/2009	1.0 U
4/27/2010	1.0 U
10/19/2010	1.0 U
5/5/2011	1.0 U
10/26/2011	1.0 U
5/3/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/19/2016	1.0 U
5/30/2017	1.0 U
10/11/2017	1.0 U
10/10/2018	1.0 U
9/16/2020	1.0 U
5/19/2021	1.0 U

RI-MW9	
Date	Result ug/L
10/16/2002	1.0 U
10/22/2008	1.0 U
4/29/2009	1.0 U
10/14/2009	1.0 U
4/28/2010	1.0 U
10/20/2010	1.0 U
4/26/2011	1.0 U
10/26/2011	1.0 U
5/2/2012	1.0 U
10/10/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/10/2018	1.0 U
9/18/2020	1.0 U
5/19/2021	1.0 U

RI-MW5	
Date	Result ug/L
10/16/2002	1.0 U
10/21/2008	1.0 U
4/28/2009	1.0 U
10/13/2009	1.0 U
4/27/2010	1.0 U
10/20/2010	1.0 U
4/26/2011	1.0 U
10/25/2011	1.0 U
5/1/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

RW-341A	
Date	Result ug/L
4/9/1999	1.0 U
10/23/2008	1.0 U
4/30/2009	1.0 U
10/16/2009	1.0 U
4/29/2010	1.0 U
10/20/2010	1.0 U
4/28/2011	1.0 U
10/25/2011	1.0 U
5/4/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/20/2016	1.0 U
5/31/2017	1.0 U
10/11/2017	1.0 U
10/11/2018	1.0 U
9/17/2020	NA
10/11/2018	1.0 U
9/17/2020	1.0 U
5/20/2021	NA

RI-MW8	
Date	Result ug/L
10/14/2002	1.0 U
10/20/2008	1.0 U
4/27/2009	1.0 U
10/13/2009	1.0 U
4/26/2010	1.0 U
10/19/2010	1.0 U
4/26/2011	1.0 U
10/25/2011	1.0 U
5/1/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/25/2017	1.0 U
10/8/2017	1.0 U
10/9/2018	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

SW-01	
Date	Result ug/L
6/7/1999	1.0 U
10/23/2008	1.0 U
4/30/2009	1.0 U
10/16/2009	1.0 U
4/29/2010	1.0 U
10/20/2010	1.0 U
4/28/2011	1.0 U
10/25/2011	1.0 U
5/4/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/20/2016	1.0 U
5/31/2017	1.0 U
10/11/2017	1.0 U
10/11/2018	1.0 U
9/17/2020	NA
5/20/2021	NA

FAG-AW4	
Date	Result ug/L
10/16/2002	0.34 J
10/23/2008	10.0 U
4/29/2009	1.0 U
10/15/2009	1.0 U
4/29/2010	10.0 U
10/21/2010	10.0 U
4/28/2011	10.0 U
10/27/2011	11.5
5/3/2012	10.0 U
10/11/2012	10.0 U
5/16/2013	10.9
10/20/2016	16.2
5/31/2017	18.7
10/12/2017	19.9
10/11/2018	35.2
9/17/2020	23.2
5/19/2021	24.2

FAG-89	
Date	Result ug/L
10/16/2002	1.0 U
10/21/2008	1.0 U
4/28/2009	1.0 U
10/14/2009	1.0 U
4/27/2010	1.0 U
10/19/2010	1.0 U
5/5/2011	1.0 U
10/26/2011	1.0 U
5/2/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/19/2016	1.0 U
5/30/2017	1.0 U
10/12/2017	1.0 U
10/10/2018	1.0 U
9/17/2020	1.0 U
5/20/2021	1.0 U

FAG-88	
Date	Result ug/L
10/16/2002	1.0 U
10/20/2008	1.0 U
4/28/2009	1.0 U
10/13/2009	1.0 U
4/27/2010	1.0 U
10/19/2010	1.0 U
5/5/2011	1.0 U
10/25/2011	1.0 U
5/2/2012	1.0 U
10/9/2012	1.0 U
5/14/2013	1.0 U
10/18/2016	1.0 U
5/24/2017	1.0 U
10/11/2017	1.0 U
10/11/2018	1.0 U
9/16/2020	1.0 U
5/19/2021	1.0 U

RI-MW7	
Date	Result ug/L
10/15/2002	1.0 U
10/21/2008	1.0 U
4/28/2009	1.0 U
10/13/2009	1.0 U
4/27/2010	1.0 U
10/20/2010	1.0 U
4/26/2011	1.0 U
10/25/2011	1.0 U
5/1/2012	1.0 U
10/9/2012	1.0 U
5/15/2013	1.0 U
10/19/2016	1.0 U
5/30/2017	1.0 U
10/11/2017	1.0 U
10/9/2018	1.0 U
9/16/2020	1.0 U
5/18/2021	1.0 U

RI-MW6	
Date	Result ug/L
10/15/2002	1.0 U
10/21/2008	1.0 U
4/29/2009	1.0 U
10/14/2009	1.0 U
4/28/2010	1.0 U
10/20/2010	1.0 U
4/27/2011	1.0 U
10/26/2011	1.0 U
5/2/2012	1.0 U
10/10/2012	1.0 U
5/15/2013	1.0 U
10/19/2016	1.0 U
5/30/2017	1.0 U
10/11/2017	1.0 U
10/9/2017	1.0 U
9/15/2020	1.0 U
5/18/2021	1.0 U

- SURFACE WATER
- UPPERMOST GROUNDWATER
- MISSISSIPPIAN AQUIFER

E = EXCEEDS CALIBRATION RANGE
J = ESTIMATED CONCENTRATION
D = DILUTED
U = NOT DETECTED
NA = NOT ANALYZED

SPRING WATER AND MISSISSIPPIAN AQUIFER ANALYTICAL RESULTS VINYL CHLORIDE (VC) - 1999 TO 2021

NEWTON COUNTY WELLS SITE
VILLAGES OF SILVER CREEK AND SAGINAW, MISSOURI

FIGURE 4-2C

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

APPENDIX A

Field Instrument Calibration Logs (May 2021)

Field Equipment Calibration Checklist

Date: 5/18/21

Calibrated by: IM

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: ~~Initial time: _____ + 10min = _____~~
2. Enter the local barometric pressure.

   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)

   ~~_____ in. x 25.4 = _____ mmHg - 15.169 =~~ 29.92 ~~mmHg~~ inHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA 82505

1. Specific Conductance: 7.007 mS/cm
2. ORP: 235.5 mV
3. pH:
   - Point 1: 4.05
   - Point 2: 7.13
   - Point 3: 10.11
4. DO: 94%

Field Equipment Calibration Checklist

Date: 5/19/21

Calibrated by: IM

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: ~~Initial time: _____ + 10min = _____~~
2. Enter the local barometric pressure.

   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)

   ~~_____ in. x 25.4 = _____ mmHg - 15.169 =~~ 29.92 ~~mmHg~~ inHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA#02502

1. Specific Conductance: 7000 mS/cm
2. ORP: 238.8
3. pH:
   - Point 1: 4.04
   - Point 2: 7.00
   - Point 3: 10.03
4. DO: 97%

Field Equipment Calibration Checklist

Date: 5/20/21

Calibrated by: IM

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: ~~Initial time: _____ + 10min = _____~~
2. Enter the local barometric pressure.

   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)

   ~~_____ in. x 25.4 = _____ mmHg - 15.169 =~~ 29.92 ~~mmHg~~ inHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: #02502

1. Specific Conductance: 7mS/cm
2. ORP: 234.9 mV
3. pH:
   - Point 1: 6.98
   - Point 2: 4.01
   - Point 3: 9.98
4. DO: 98%

Field Equipment Calibration Checklist

Date: 5/18/21

Calibrated by: CAC

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: ~~Initial time: _____ + 10min = _____~~
2. Enter the local barometric pressure.

   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)

   ~~_____ in. x 25.4 = _____ mmHg - 15.169 =~~ 29.92 ~~mmHg~~ in Hg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA003312

1. Specific Conductance: 7.261 mS/cm
2. ORP: 230.00 mV
3. pH:
   - Point 1: 7.06
   - Point 2: 4.11
   - Point 3: 10.02
4. DO: 94%

Field Equipment Calibration Checklist

Date: 5/19/21

Calibrated by: CAV

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: ~~Initial time: _____ + 10min = _____~~
2. Enter the local barometric pressure.

   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)

   ~~_____ in. x 25.4 = _____ mmHg - 15.169 =~~ 29.92 ~~mmHg~~ inHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

~~Turbidity calibration:~~

1. ~~Select "measure" on the main menu, then "Turbidity – With Blank"~~
2. ~~Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"~~
3. ~~Scan a sample using the 10 NTU standard. "Scan Sample"~~
4. ~~Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).~~

Field Notebook calibration entry:

YSI – Serial Number: FA003312

1. Specific Conductance: 6.99 mS/cm
2. ORP: 230.4 mV
3. pH:
   - Point 1: 6.97
   - Point 2: 4.01
   - Point 3: 10.00
4. DO: 97%

Field Equipment Calibration Checklist

Date: 5/20/21

Calibrated by: CAU

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** NA **Exp:** NA

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** NA **Exp:** NA
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: ~~Initial time: _____ + 10min = _____~~
2. Enter the local barometric pressure.

   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)

   ~~_____ in. x 25.4 = _____ mmHg - 15.169 = _____ mmHg~~ 29.92 in Hg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

~~Turbidity calibration:~~

1. ~~Select "measure" on the main menu, then "Turbidity – With Blank"~~
2. ~~Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"~~
3. ~~Scan a sample using the 10 NTU standard. "Scan Sample"~~
4. ~~Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).~~

Field Notebook calibration entry:

YSI – Serial Number: FA603312

1. Specific Conductance: 6.92 mS/cm
2. ORP: 223.6 mV
3. pH:
   - Point 1: 7.02
   - Point 2: 4.01
   - Point 3: 10.00
4. DO: 98%

APPENDIX B

Groundwater and Surface Water Sampling Logs (May 2021)

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-AW4

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/19/21	Well Construction	2" pvc angled stick up
Time	1605	Total Volume Purged (gal)	8 gal
Sampler	IM + JZ	Pump is set at (ft)	156.5
Water Level (ft)	58.91	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	161.52	Well Purge Equipment	piston pump
Screen Length (ft)	10.4		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1610	nm	18.4	487.0	0.46	7.16	397.4	nm	600
1615		18.7	486.7	0.30	7.13	375.2		500
1620		18.7	484.6	1.69	7.13	345.0		500
1625		18.9	486.5	2.38	7.11	318.6		500
1630		18.3	481.0	0.98	7.10	287.8		500
1635		18.3	484.3	0.87	7.09	281.0		500
1640		18.4	486.2	1.09	7.09	268.2		500
1645		18.0	481.6	0.47	7.08	263.1		500
1650		17.9	481.4	0.47	7.08	258.4		500
1655		17.7	484.2	0.46	7.07	255.2		500

SAMPLE COLLECTION DATA

Date:	1657	Odor:	None
Time:	5/19/21	Color:	clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	n/a

WEATHER

Sunny (Cloudy) Partly Cloudy

Wind Direction: SE

Wind Speed (mph) <0-10 10-25 >25

Temperature: 73°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-05

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/19/21	Well Construction	2" pvc flush
Time	0808	Total Volume Purged (gal)	
Sampler	IM + JZ	Pump is set at (ft)	185
Water Level (ft)	36.47	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	194.75'	Well Purge Equipment	piston pump
Screen Length (ft)	20'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0813	36.49	18.7	354.5	7.23	7.50	451.2	nm	200
0818	36.49	17.7	351.6	9.36	7.75	449.1		600
0823	36.49	17.8	418.6	9.50	7.53	456.8		300
0828	36.51	17.7	504.0	6.93	6.97	420.6		300
0833	36.51	17.3	502.0	5.68	6.94	394.2		300
0838	36.52	17.2	508	5.11	6.92	377.1		300
0843	36.52	17.2	511	4.82	6.92	354.1		300
0848	36.52	17.4	512	4.71	6.92	338.1		300
0853	36.52	17.3	512	4.67	6.92	332.1		300
0858	36.52	17.3	512	4.58	6.92	329.4		300

SAMPLE COLLECTION DATA

Date:	5/19/21	Odor:	
Time:	0900	Color:	clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	Chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	nm

WEATHER

Sunny (Cloudy) Partly Cloudy

Wind Direction: SE

Wind Speed (mph) (0-10) 10-25 >25

Temperature: 66°

COMMENTS

Collected List B FD @ 0900

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-11

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/19/21	Well Construction	2" pvc stick up
Time	1001	Total Volume Purged (gal)	9
Sampler	IM + JZ	Pump is set at (ft)	184'
Water Level (ft)	46.44	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	194'	Well Purge Equipment	piston pump
Screen Length (ft)	20		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1006	46.44	20.6	327.1	8.70	7.91	435.9	nm	400
1011	46.46	18.8	324.2	9.37	7.94	444.6		400
1016	46.47	19.8	476.4	5.27	7.22	389.4		400
1021	46.47	20.4	519	4.21	7.11	348.1		400
1026	46.47	18.4	530	2.17	7.05	114.0		500
1031	46.46	18.3	517	1.48	7.04	59.5		500
1036	46.47	17.9	496	1.27	7.05	37.5		400
1041	46.46	17.7	477	1.25	7.06	35.7		400
1046	46.46	17.9	479	1.29	7.06	38.2		400

SAMPLE COLLECTION DATA

Date: 5/19/21	Odor:
Time: 1048	Color:

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic			--
				--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	n/a

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 72°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-22

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/20/21	Well Construction	2" pvc flush
Time	0945	Total Volume Purged (gal)	
Sampler	IM/SZ	Pump is set at (ft)	92'
Water Level (ft)	33.96'	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	97.38'	Well Purge Equipment	piston pump
Screen Length (ft)	10'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0950	34.18	19.2	414.3	0.20	7.64	445.9	nm	400
0955	34.48	18.9	526	1.05	7.07	410.3		400
~~0~~ 1000	34.34	18.8	517	0.34	7.01	379.6		400
1005	34.27	19.0	524	0.26	7.00	364.5		400
1010	34.27	19.2	526	0.20	7.00	342.2		400
1015	34.27	19.4	526	0.17	7.00	329.[illegible]		400
1020	34.25	19.5	524	0.47	7.01	316.3		400
1025	34.25	19.6	525	0.60	7.01	305.0		400
1030	34.25	19.8	526	0.66	7.01	295.9		400
1035	34.25	19.8	528	0.68	7.02	286.1		400
1040	34.25	19.8	527	0.64	7.01	281.9		400
1045	34.24	19.9	525	0.70	7.01	278.5		400

SAMPLE COLLECTION DATA

Date:	5/20/21	Odor:	none
Time:	1050	Color:	clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL VOA	none	methane / ethane / ethene	--
1	250 mL plastic	none	sulfate / nitrate / chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.40 mg/L

WEATHER

Sunny (Cloudy) Partly Cloudy

Wind Direction: SE

Wind Speed (mph) (0-10) 10-25 >25

Temperature: 71°

COMMENTS

drizzle

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-31

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/20/21	Well Construction	2" pvc flush
Time	0735	Total Volume Purged (gal)	
Sampler	IM / JZ	Pump is set at (ft)	79'
Water Level (ft)	34.40	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	83.97	Well Purge Equipment	Piston pump
Screen Length (ft)	10'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0740	33.71	19.6	343.3	7.70	7.23	448.1	nm	200
0745	34.65	19.8	341.7	7.69	7.39	452.3		200
0750	36.60	19.5	382.5	8.31	7.28	454.5		400
0755	39.35	19.0	402.2	5.68	7.14	400.6		500
0800	41.59	18.6	401.8	1.81	7.13	372.8		500
0805	41.74	18.7	400.5	1.94	7.13	352.0		500
0810	41.72	18.7	399.8	1.26	7.12	328.2		500
0815	41.76	18.8	398.6	0.92	7.11	304.6		500
0820	nm	18.8	397.3	0.77	7.11	247.7		500
0825	nm	18.8	396.0	0.74	7.12	222.5		500
0830	nm	18.9	395.3	0.73	7.12	212.2		500
0835	41.48	18.9	394.5	0.70	7.12	197.7		500
0840	41.48	19.1	394.4	0.69	7.12	186.4		500
0845	41.42	19.2	393.9	0.65	7.14	180.4		500
0850	41.34	19.2	393.0	0.64	7.14	176.8		500

SAMPLE COLLECTION DATA

Date:	5/20/21	Odor:	None
Time:	0853	Color:	Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	chloride / nitrate / sulfate	--
3	40 mL VOA	none	methane / ethane / ethene	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.19

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 74°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-32

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/19/2021	Well Construction	2" PVC Flush
Time	0941	Total Volume Purged (gal)	12.5
Sampler	MS/CC	Pump is set at (ft)	—
Water Level (ft)	29.5	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	63.71	Well Purge Equipment	Bailer
Screen Length (ft)	—		

FIELD PARAMETERS

Purge Time (~~5 min Δ~~) gal.	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		19.0	226.2	4.14	9.00	-79.9		
2		19.1	224.2	5.18	9.27	-84.6		
~~4~~ 3		18.6	226.1	5.01	9.38	-75.0		
5		18.6	226.4	8.10	9.38	-39.1		
7		18.3	238.8	3.75	9.07	-20.3		
9		18.3	243.9	2.97	8.70	-5.7		
11		18.3	244.8	3.84	8.61	-1.9		
13			Dry at ~12.5 gallons					
				MAC				

SAMPLE COLLECTION DATA

Date:	5/19/21	Odor:	none
Time:	1230	Color:	brown/murky

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL Glass	None	Methane, ethane, ethene	--
1	250 mL	None	Sulfate, chloride, nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.14

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: —

Wind Speed (mph) 0-10 10-25 >25

Temperature: 65°F

COMMENTS

List A FD taken @ 1230

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-33

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/18/21	Well Construction	2" PVC stickup
Time	0759	Total Volume Purged (gal)	4.5 gal
Sampler	JE/MS	Pump is set at (ft)	bailing
Water Level (ft)	32.05	Well Measurement Technique	~~Electronic Water Level Meter~~ bail
Total Depth (ft)	47.51	Well Purge Equipment	bailer, double valve
Screen Length (ft)			

15.46

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		16.1	0.165	5.63	5.66	170.3		
2		15.7	0.140	5.39	5.71	163.0		
4		15.8	0.138	3.74	5.66	135.0		
			baited dry at 4.5 gal 0810					

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: none
Time: 0815	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL glass	None	methane/Ethane/Ethane	--
1	250 mL plastic	None	sulfate/chloride/nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.76

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 64°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-34

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/19/2021	Well Construction	2" PV
Time	0730	Total Volume Purged (gal)	10.5
Sampler	MS/CC	Pump is set at (ft)	—
Water Level (ft)	35.5	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	56.48	Well Purge Equipment	Bailer
Screen Length (ft)			

FIELD PARAMETERS

Purge Time (~~5 min Δ~~)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
~~0~~		~~15.7~~		~~[illegible]~~				
0		15.7	0.388	7.31	7.41	93.8	n/a	n/a
2		15.7	387.4	7.26	7.28	115.1		
4		15.9	382.5	6.91	7.26	130.7		
6		15.9	381.5	5.36	7.15	136.9		
8		15.9	384.9	4.62	7.07	140.5		
10		16.1	387.8	3.17	6.96	140.9		

MS

SAMPLE COLLECTION DATA

Date: 5/19/2021	Odor: None
Time: 0834	Color: Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL Glass	None	Methane, ethane, ethene	--
1	250 ml Plastic	None	chloride, sulfate, nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.18

WEATHER

Sunny ~~Cloudy~~ Partly Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature: 65° F

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	WELL NUMBER: FAG-35
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5-18-21	Well Construction	2" PVC stickup
Time	14.59	Total Volume Purged (gal)	11 gal
Sampler	JZ/MS	Pump is set at (ft)	—
Water Level (ft)	32.24	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	21.74	Well Purge Equipment	Bailer
Screen Length (ft)			

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		17.6	0.501	8.13	7.40	181.4		
2		17.8	0.507	6.92	7.49	155.8		
4		17.6	0.509	6.14	7.47	148.0		
6		16.9	0.510	5.59	7.42	141.3		
8		16.8	0.509	5.19	7.40	136.0		
10		16.9	0.510	5.26	7.38	133.3		

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: none
Time: 1531	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL VOA	none	methane / ethane / ethene	--
1	250 mL Plastic	none	chloride / sulfate / nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	—

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SW

Wind Speed (mph) 0-10 10-25 >25

Temperature: 80°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-22

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/14/21	Well Construction	2" PVC Stickup
Time	1429	Total Volume Purged (gal)	6
Sampler	IM/JT	Pump is set at (ft)	92.5
Water Level (ft)	28.49	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	97.55	Well Purge Equipment	piston pump
Screen Length (ft)	10'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1434	33.98	21.0	342.3	5.88	7.41	427.1	nm	600
1439	34.99	20.6	344.2	3.21	6.82	368.2		600
1444	35.60	21.4	344.2	2.94	6.74	319.1		600
1449	38.88	19.7	340.8	1.40	6.69	292.0		200
1454	39.21	20.6	342.7	3.11	6.72	268.3		200
1459	39.85	20.2	342.7	3.37	6.68	262.7		400
1504	40.82	20.2	342.4	3.07	6.66	254.7		400
1509	41.50	20.5	342.9	2.96	6.66	249.5		400
1514	42.01	20.8	343.8	2.85	6.66	245.4		400

SAMPLE COLLECTION DATA

Date:	5/19/21	Odor:	None
Time:	1516	Color:	Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	~~all~~ VOCs	--
3	40 mL VOA	none	~~chloride, sulfate, nitrate~~ MGE	--
1	250 mL plastic	none	chloride, sulfate, nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.1 mg/L

WEATHER

Sunny **Cloudy** Partly Cloudy

Wind Direction: ESE

Wind Speed (mph) **0-10** 10-25 >25

Temperature: 72°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-43

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5-18-20	Well Construction	2" PVC flush
Time	1325	Total Volume Purged (gal)	2.5 gal
Sampler	JZ/MS	Pump is set at (ft)	—
Water Level (ft)	16.02	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	21.3	Well Purge Equipment	Bailer
Screen Length (ft)			

5.01
0.82
2.45

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (±0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		16.0	0.062	4.35	6.02	30.0		
2		15.8	0.063	4.08	6.03	55.2		

JZ

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: None
Time: 1342	Color: Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	—	Chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	—

WEATHER

(Sunny) Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) (0-10) 10-25 >25

Temperature: 80°

COMMENTS

well surrounded by mud + surface water. Needed to remove from well vault.

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-46

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5-18-21	Well Construction	2" PVC stickup
Time	1400	Total Volume Purged (gal)	4 gal
Sampler	JZ/MS	Pump is set at (ft)	—
Water Level (ft)	49.45	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	57.61	Well Purge Equipment	Bailer
Screen Length (ft)			

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		16.8	0.187	5.24	6.16	100.6		
2		17.8	0.241	5.22	6.27	104.0		
4		16.9	0.305	6.32	6.46	103.7		

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: none
Time: 1431	Color: gray

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.53

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 80°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-47

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5-18-20	Well Construction	2"
Time	0930	Total Volume Purged (gal)	~0.25
Sampler	RMS	Pump is set at (ft)	—
Water Level (ft)	42.95	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	54.36	Well Purge Equipment	bailer
Screen Length (ft)			

11.41

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		16.4	0.440	4.62	6.87	89.2		
			Bailed	dry ~0.25 gallons				
				MS				

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: none
Time: 1558	Color: orange/rust brown

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL Glass	—	methane/ethane/ethene	--
1	250 mL Plastic	—	chloride/sulfate/nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.60

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 80°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG - 50

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/18/2021	Well Construction	2" PVC
Time	1211	Total Volume Purged (gal)	1.5
Sampler	UKU / MS	Pump is set at (ft)	—
Water Level (ft)	36.50	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	39.91	Well Purge Equipment	Bailer
Screen Length (ft)	—		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		16.5	131.5	9.06	7.75	48.6	n/a	n/a
1		15.4	139.6	8.79	6.79	84.7		
~~[illegible]~~								
			well	dry ~ 1.5 gallons				
				MS				

SAMPLE COLLECTION DATA

Date: 5/18/2021	Odor: none
Time: 1250	Color: brown

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40 mL Glass	none	methane, ethane, ethene	--
1	250 ml Plastic	"	sulfate, chloride, nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.0

WEATHER

Sunny Cloudy (Partly) Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature:

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** FAG-56

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5-18-21	Well Construction	2" PVC flush
Time	0845	Total Volume Purged (gal)	~ 4.75 gal
Sampler	JE/MS	Pump is set at (ft)	Bailing
Water Level (ft)	21.80	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	31.48	Well Purge Equipment	disposable bailer
Screen Length (ft)			

9.68

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		18.6	0.365	3.71	6.16	93.7		
2		18.4	0.400	3.05	6.34	89.6		
4		18.4	0.426	2.87	6.53	88.9		

JE

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: none
Time: 0907	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	glass 40mL	none	methane, ethane, ethene	--
1	250mL plastic	none	chloride, sulfide, nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.00

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 65°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** FAG-62
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5-18-21	Well Construction	2" PVC Mon.
Time	1245	Total Volume Purged (gal)	1.25 gal
Sampler	JZ/MS	Pump is set at (ft)	—
Water Level (ft)	28.05	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	29.97	Well Purge Equipment	Bailer
Screen Length (ft)			

1.92

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		18.2	0.549	3.37	6.77	52.5		

SAMPLE COLLECTION DATA

Date: 5-18-21	Odor: none
Time: 1255	Color: reddish brown

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.11

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 75°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** FAG-73
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/19/21	Well Construction	2" PVC, flush
Time	0900	Total Volume Purged (gal)	3.5
Sampler	CAC / MS	Pump is set at (ft)	—
Water Level (ft)	CAC ~~23.13~~ 23.02	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	30.05	Well Purge Equipment	disposable bailer
Screen Length (ft)	—		

FIELD PARAMETERS

~~Purge Time (5 min Δ)~~ gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
~~1050~~	NM	17.8	508	1.99	7.14	-132.1	NM	NM
2	NM	17.9	508	3.01	7.12	-126.9	NM	NM
3.5	NM	17.9	507	2.61	7.09	-124.8	NM	NM

CAC

SAMPLE COLLECTION DATA

Date: 5/19/21	Odor: none
Time: 915	Color: brown, turbid

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40mL glass	none	methane, ethane, ethene	--
1	250mL plastic	none	chloride, sulfate, nitrate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	3.27

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature:

COMMENTS

MS, MSD taken @ 915

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** FA6-74
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/21/21	Well Construction	2" pvc FWSL
Time	1427	Total Volume Purged (gal)	1 gal
Sampler	IM/CAC	Pump is set at (ft)	—
Water Level (ft)	27.79'	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	33.2'	Well Purge Equipment	disposable bailer
Screen Length (ft)	—		

FIELD PARAMETERS

Purge ~~Time~~ (~~5 min Δ~~) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0	nm	18.9	547	5.32	7.08	-17.3	nm	~~NM~~
0.75	NM	18.5	549	5.91	7.07	-16.5	NM	NM
1	NM	18.7	549	6.87	7.14	-17.6	NM	NM
well	went	dry at	1 gallon.					

IM/CAC

SAMPLE COLLECTION DATA

Date: 5/21/21	Odor: none
Time: 1460	Color: light brown

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
3	40mL glass	none	methane, ethane, ethene	--
1	250mL plastic	none	chloride, nitrate, sulfate	--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.85

WEATHER

Sunny (Cloudy) Partly Cloudy

Wind Direction: SE

Wind Speed (mph) (0-10) 10-25 >25

Temperature: 69°

COMMENTS

15 gal purged prior for redevelopment

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	WELL NUMBER: FAG-88
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/19/21	Well Construction	4" PVC, stick-up
Time	1319	Total Volume Purged (gal)	8.5gal
Sampler	CRC/MS	Pump is set at (ft)	—
Water Level (ft)	50.55	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	170	Well Purge Equipment	Bailer
Screen Length (ft)	—		

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0	nm	15.9	323.1	4.31	7.42	86.1	nm	nm
2	nm	15.7	321.6	4.94	7.55	78.6	nm	nm
4	nm	15.6	320.7	4.48	7.61	74.8	nm	nm
6	nm	15.4	320.9	4.30	7.61	72.4	nm	nm
8	nm	15.4	320.4	4.34	7.63	69.8	nm	nm
				CRC				

SAMPLE COLLECTION DATA

Date: 5/19/21	Odor: none
Time: 1340	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250mL plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	nm

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature:

COMMENTS

Sampled list B MS, MSD.

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** FAG-89
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/20/21	Well Construction	4" PVC stick-up
Time	740	Total Volume Purged (gal)	10.5 gal
Sampler	CAC/MS	Pump is set at (ft)	—
Water Level (ft)	28.71	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	175	Well Purge Equipment	disposable bailer
Screen Length (ft)	—		

FIELD PARAMETERS

~~Purge Time~~ (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0	NM	14.9	387.3	5.74	6.32	206.8	NM	NM
2	NM	14.9	365.9	6.48	6.75	191.3	NM	NM
4	NM	14.8	361.3	6.63	7.06	181.3	NM	NM
6	NM	14.9	366.7	6.47	7.20	176.6	NM	NM
8	NM	14.9	363.5	6.74	7.29	172.2	NM	NM
10	NM	15.1	363.8	6.82	7.32	170.6	NM	NM

CAC

SAMPLE COLLECTION DATA

Date: 5/20/21	Odor: none
Time: 850	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	25mL plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	NM

WEATHER

Sunny Cloudy (Partly) Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature:

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** RI- MW-1

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5-18-21	Well Construction	2" PVC Flush
Time	1110	Total Volume Purged (gal)	3 gal
Sampler	JZ-MS	Pump is set at (ft)	—
Water Level (ft)	46.85	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	63.31	Well Purge Equipment	Bailer
Screen Length (ft)			

16.46

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (±0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		16.9	0.354	6.97	7.55	-5.0		
2		16.7	0.389	7.61	7.34	26.3		
			Bailed dry at 3 gal purged					

JZ

SAMPLE COLLECTION DATA

Date: ~~5-18-21~~ 5/19/21	Odor: none
Time: 1041	Color: ~~Clear~~ JZ orange/tan

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250ml plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	0.01

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: SE

Wind Speed (mph) 0-10 10-25 >25

Temperature: 70°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** RI-MW2
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5-18-21	Well Construction	2" PVC flush
Time	0950	Total Volume Purged (gal)	13 gal
Sampler	SF/MS	Pump is set at (ft)	—
Water Level (ft)	37.30	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	99.79	Well Purge Equipment	bailer
Screen Length (ft)			

FIELD PARAMETERS

Purge Time (5 min Δ) gal	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0		17.5	0.495	3.35	7.05	-12.9		
2		16.9	0.481	4.81	7.27	-78.4		
4		17.4	0.496	4.02	7.27	-94.9		
6		17.5	0.498	4.68	7.28	-79.2		
8		16.7	0.499	3.94	7.36	-110.9		
10		16.8	0.501	3.67	7.37	-110.9		
12		16.7	0.496	3.71	7.46	-115.4		
			well	stabilized				
			MS					

SAMPLE COLLECTION DATA

Date:	5/18/2021	Odor:	none
Time:	10:45	Color:	Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL Plastic	—	Chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	1.55

WEATHER

~~Sunny~~ Cloudy Partly Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature:

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** R1-MW5
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/18/21	Well Construction	4" pvc Flush
Time	1052	Total Volume Purged (gal)	7
Sampler	IM / CC	Pump is set at (ft)	171'
Water Level (ft)	47.50	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	181'	Well Purge Equipment	piston pump
Screen Length (ft)	20'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1057	47.51	21.7	324.8	7.59	7.75	403.5	nm	400
1102	47.51	21.9	325.2	9.01	7.77	420.5		400
1107	47.52	21.2	144.3	7.90	7.86	356.3		300
1112	47.51	20.6	98.8	4.83	7.51	208.3		300
1117	47.51	21.0	98.3	3.48	7.30	129.5		300
1122	47.51	20.5	98.1	2.63	7.22	95.8		300
1127	47.51	20.5	97.9	2.09	7.18	70.6		300
1132	47.51	20.8	97.9	1.57	7.13	44.2		300
1137	47.51	20.9	98.0	1.26	7.11	32.6		300
1142	47.51	20.6	98.1	1.03	7.11	23.0		300
1147	47.51	20.8	98.2	0.97	7.10	17.4		300
1152	47.51	21.0	98.3	0.94	7.10	15.2		80

SAMPLE COLLECTION DATA

Date: 5/18/21	Odor: none
Time: 1154	Color: Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250mL plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	ns

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction: N

Wind Speed (mph) 0-10 10-25 >25

Temperature: 76°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** R1-MW6
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/18/21	Well Construction	4" PVC Flush
Time	1535	Total Volume Purged (gal)	10 gal
Sampler	IM + CC	Pump is set at (ft)	193'
Water Level (ft)	65.84	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	203'	Well Purge Equipment	piston pump
Screen Length (ft)	20'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1540	65.65	23.2	333.8	8.23	7.88	423.3	NM	400
1545	65.65	23.3	333.4	10.05	7.90	432.0	NM	400
1550	65.62	22.8	339.0	6.26	7.53	286.0	NM	400
1555	65.65	22.6	339.3	4.99	7.46	214.5	NM	300
1600	65.66	22.6	337.7	4.68	7.44	198.4	NM	300
1605	65.66	23.6	339.9	4.63	7.43	176.7	NM	300
1610	65.66	22.8	341.9	4.38	7.40	98.5	NM	300
1615	65.66	19.4	334.1	3.58	7.37	68.4	NM	300
1620	65.66	20.0	335.5	3.53	7.35	42.0	NM	300
1625	65.66	20.7	334.4	3.49	7.37	49.2	NM	300
1630	65.66	20.7	335.3	3.46	7.37	46.9	NM	300

CAC

SAMPLE COLLECTION DATA

Date: 5/18/2021	Odor: none
Time: 1635	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	NM

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature:

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** R1-MW7

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/18/21	Well Construction	4" pvc flush
Time	~~1400~~ 1405	Total Volume Purged (gal)	11 gal
Sampler	IM / CC	Pump is set at (ft)	189'
Water Level (ft)	85.80	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	199.2'	Well Purge Equipment	Piston pump
Screen Length (ft)	20'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1410	85.81	25.5	331.7	8.55	7.85	395.8	NM	300
1415	85.82	22.9	333.8	9.90	7.90	407.2	NM	600
1420	85.86	17.4	342.3	3.34	7.45	318.1	NM	600
1425	85.88	17.1	340.7	3.31	7.39	282.3	NM	600
1430	85.84	18.0	341.1	3.86	7.36	249.9	NM	600
1435	85.84	19.4	344.6	4.75	7.38	237.7	NM	500
1440	85.82	20.1	345.5	4.95	7.39	227.1	NM	400
1445	85.84	21.0	346.4	5.20	7.40	219.1	NM	400
1450	85.84	21.1	347.2	5.23	7.41	216.7	NM	400
				CMC				

SAMPLE COLLECTION DATA

Date: 5/18/2021	Odor: none
Time: 1455	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	Chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	N/A

WEATHER

Sunny Cloudy Partly Cloudy

Wind Direction:

Wind Speed (mph) 0-10 10-25 >25

Temperature: 80

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** R1-MW8

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/18/21	Well Construction	4" pvc flush
Time	0900	Total Volume Purged (gal)	5
Sampler	IM + CC	Pump is set at (ft)	37.4
Water Level (ft)	4.39	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	42.40	Well Purge Equipment	piston pump
Screen Length (ft)	20		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0905	4.36	17.6	406.2	6.36	7.02	191.7	NM	100
0910	4.38	18.7	406.4	6.58	6.97	191.8		200
0915	4.36	18.9	405.8	6.66	6.96	191.9		200
0920	4.33	18.7	405.1	6.80	7.00	188.0		100
0925	4.41	18.8	404.5	6.81	7.00	189.3		300
0930	4.37	18.9	403.2	6.83	7.02	188.6		300
0935	4.36	18.9	402.9	6.86	7.04	185.9		200

SAMPLE COLLECTION DATA

Date: 5/18/21	Odor:
Time: 0938	Color: Clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	Chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	NM

WEATHER

Sunny (Cloudy) Partly Cloudy

Wind Direction:

Wind Speed (mph) (0-10) 10-25 >25

Temperature: 70°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605 | **WELL NUMBER:** RI-MW 9

PROJECT NAME: NCWS FAG

WELL PURGE DATA

Date	5/19/21	Well Construction	4" pvc FCSL
Time	1140	Total Volume Purged (gal)	50 gal
Sampler	MA JZ	Pump is set at (ft)	185'
Water Level (ft)	40.81	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	195'	Well Purge Equipment	piston pump
Screen Length (ft)	20'		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
1145	40.83	19.2	319.8	9.98	7.97	440.4	nm	300
1150	40.82	20.0	423.2	5.58	7.40	375.5		300
1155	40.81	20.3	434.5	3.57	7.28	256.3		600
1200	40.82	17.8	427.3	1.94	7.26	210.6		500
1205	40.82	17.8	424.7	1.38	7.25	138.3		500
1210	40.83	17.6	421.9	1.27	7.23	99.2		500
1215	40.85	17.7	420.0	1.24	7.22	83.8		500
1220	40.85	17.8	417.2	1.20	7.22	78.6		500
1225	40.85	17.8	417.4	1.16	7.21	74.4		300

SAMPLE COLLECTION DATA

Date:	5/19/21	Odor:	none
Time:	1228	Color:	clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none	chloride	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	n/a

WEATHER

Sunny (Cloudy) Partly Cloudy

Wind Direction: SE

Wind Speed (mph) (0-10) 10-25 >25

Temperature: 73°

COMMENTS

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** SW-01
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/20/21	Well Construction	n/a
Time	1125	Total Volume Purged (gal)	n/a
Sampler	LM + JZ	Pump is set at (ft)	n/a
Water Level (ft)	n/a	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	n/a	Well Purge Equipment	n/a
Screen Length (ft)	n/a		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
n/a	n/a	14.0	314.7	8.93	7.49	183.5	n/a	n/a

SAMPLE COLLECTION DATA

Date: 5/20/21	Odor:
Time: 1130	Color:

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	250 mL plastic	none		--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	

WEATHER	COMMENTS
Sunny (Cloudy) Partly Cloudy	
Wind Direction: SE	
Wind Speed (mph) (0-10) 10-25 >25	
Temperature: 71°	

Ramboll - GROUND WATER SAMPLING LOG

PROJECT NUMBER: 1690004605	**WELL NUMBER:** RW-341A
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/20/21	Well Construction	N/A
Time	1115	Total Volume Purged (gal)	n/a
Sampler	IM/JZ	Pump is set at (ft)	n/a
Water Level (ft)	n/a	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	n/a	Well Purge Equipment	n/a
Screen Length (ft)	n/a		

FIELD PARAMETERS

Purge Time (5 min Δ)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
n/a	n/a	15.9	377.3	9.31	7.23	134.6	n/a	n/a

SAMPLE COLLECTION DATA

Date: 5/20/21	Odor: none
Time: 1120	Color: clear

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
				--
				--
				--
				--
				--
				--
				--
				--
				--
				--
1	Hach Ampule	None	Ferrous Iron	

WEATHER	COMMENTS
Sunny Cloudy Partly Cloudy	
Wind Direction:	
Wind Speed (mph) 0-10 10-25 >25	
Temperature:	

Ramboll - GROUND WATER SAMPLING LOG

*See back for persulfate testing instructions.

PROJECT NUMBER: 1690004605	**WELL NUMBER: FAG- 85**
PROJECT NAME: NCWS FAG	

WELL PURGE DATA

Date	5/21/21	Well Construction	2 in PVC
Time	1243	Total Volume Purged (gal)	32 gal
Sampler	CAC	Pump is set at (ft)	NA- Well bailed
Water Level (ft)	NM	Well Measurement Technique	Electronic Water Level Meter
Total Depth (ft)	See Parameter Table or WL Log for TD 94.41	Well Purge Equipment	Plastic bailer
Screen Length (ft)	See Parameter Table or WL Log for SL	Persulfate Approx. Result (ppm)*	NM

FIELD PARAMETERS

Purge (gallons)	DTW Feet (± 0.1)	Temp °C (±1)	Spec Cond uS/cm (± 3%)	DO mg/L (± 10% or under 0.2)	pH (±0.1)	ORP mV (± 10)	Turbidity NTUs (± 10% or under 10)	Flow (mL/min, ≤100)
0	X	16.5	338.3	6.93	11.31	-1.2	X	X
2	X	15.9	357.8	7.15	11.51	-14.7	X	X
4	X	15.9	359.2	6.93	11.54	-23.4	X	X
6	X	16.7	311.4	6.38	11.39	-27.3	X	X
8	X	16.3	335.9	5.11	9.42	-26.4	X	X
10	X	15.9	399.3	3.96	8.46	-72.0	X	X
12	X	16.2	486.8	3.65	7.80	-98.0	X	X
14	X	16.2	512.0	3.61	7.61	-109.5	X	X
16	X	16.5	424.2	4.71	7.85	-114.4	X	X
18	X	16.8	516.0	3.57	7.44	-109.6	X	X
20	X	16.2	531.0	3.09	7.36	-115.3	X	X
22	X	16.7	529.0	3.78	7.30	-102.5	X	X
24	X	16.5	543.0	4.81	7.36	-74.6	X	X
26	X	16.5	557.0	3.62	7.21	-100.6	X	X
28	X	16.6	563.0	3.52	7.09	-105.0	X	X
30	X	16.8	561.0	3.21	7.09	-107.6	X	X
32	X	16.5	592.0	2.22	7.06	-106.9	X	X

SAMPLE COLLECTION DATA

Date: 5/21/21	Odor: none
Time:14:10	Color: cloudy

ANALYSES

# of Containers	Size/Type	Preservative	Analysis	Result
3	40 mL VOA	Hydrochloric (HCL)	VOCs	--
1	Hach Ampule	None	Ferrous Iron	0.00

WEATHER	COMMENTS
Sunny Cloudy Partly Cloudy	
Wind Direction:	
Wind Speed (mph) 0-10 10-25 >25	
Temperature:	

APPENDIX C
Validated Analytical Laboratory Data Reports (May 2021)

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

June 30, 2021

Mr. Doug Burge, RG, PG
Ramboll Environ
Senior Manager
1807 Park 270 Drive, Suite 450
Saint Louis, MO 63146

Dear Mr. Burge:

Enclosed is the quality assurance review of the analytical data for 42 aqueous samples (including quality control samples) collected on May 18, 19, 20, and 21, 2021, at the Fischers Aktien-Gesellschaft Bearings Corporation Newton County Wells Site. Based on this quality assurance review, one result was qualified as estimated due to low matrix spike/matrix spike duplicate recoveries.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

Erin E Rodgers

Erin E. Rodgers
Principal Chemist/
Project Manager

EER:nd
Enc.

Copy to: Caroline Chavers – Ramboll Environ

1140 Valley Forge Road P.O. Box 810 Valley Forge, PA 19482 Tel: 610.935.5577 Fax: 610.935.5583 Web: www.envstd.com

ENVIRONMENTAL STANDARDS
Setting the Standards for Innovative Environmental Solutions

QUALITY ASSURANCE REVIEW

OF THE AQUEOUS SAMPLES COLLECTED AT THE

FISCHERS AKTIEN-GESELLSCHAFT BEARINGS CORPORATION

NEWTON COUNTY WELLS SITE

ON MAY 18, 19, 20, AND 21, 2021

June 30, 2021

Prepared for:

RAMBOLL ENVIRON
1807 Park 270 Drive, Suite 320
Saint Louis, MO 63146

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

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D. Pace Project Number 60370145

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B. Pace Project Number 60369924

C. Pace Project Number 60370012

D. Pace Project Number 60370145

Section 4 Project Chain-of-Custody Records

Introduction

This quality assurance (QA) review is based upon an examination of data generated from the analyses of the 42 groundwater samples (including quality control [QC] samples) that were collected on May 18, 19, 20, and 21, 2021, by Ramboll Environ in association with the Fischers Aktien-Gesellschaft (FAG) Bearings Corporation Newton County Wells Site. The analytical data for the aqueous samples in Pace Analytical Services, LLC (Pace) Project Numbers 60369753, 60369924, 60370012, and 60370145 underwent Stage 2A validation (batch QC summary form review only) as indicated on Table 1.

This Limited review has been performed with guidance from the “National Functional Guidelines for Organic Data Review” (US EPA, October 1999). This document was used to aid the data reviewer in the interpretation of the QC analysis results and in the overall evaluation of the sample data deliverables.

The reported analytical results are presented in Section 2. Data were examined to determine the usability of the analytical results and the compliance relative to the requirements specified in the published analytical method and Appendix A Addendum to September 2001 Remedial Investigation Sampling and Analysis Plan and June 2007 Remedial Action Work Plan (December 2015).

Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed. Details of this QA review are presented in Section 1 of this report. This report was prepared to provide a review of the laboratory analyses and reported analytical results.
QA reviews of laboratory-generated data routinely identify various problems associated with analytical measurements, even from the most experienced and capable laboratories.

TABLE 1

SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Ramboll Environ Sample Identification	Laboratory Sample Identification	Pace Project Number	Matrix	Date Sample Collected	Parameter Examined
FAG-33-W-16	60369753001	60369753	Aq	5/18/21	V
FAG-56-W-16	60369753002	60369753	Aq	5/18/21	V
R1-MW8-W-16	60369753003	60369753	Aq	5/18/21	V
R1-MW2-W-16	60369753004	60369753	Aq	5/18/21	V
R1-MW5-W-16	60369753005	60369753	Aq	5/18/21	V
FAG-62-W-16	60369753006	60369753	Aq	5/18/21	V
FAG-43-W-16	60369753007	60369753	Aq	5/18/21	V
R1-MW7-W-16	60369753008	60369753	Aq	5/18/21	V
FAG-35-W-16	60369753009	60369753	Aq	5/18/21	V
FAG-47-W-16	60369753010	60369753	Aq	5/18/21	V
R1-MW6-W-16	60369753011	60369753	Aq	5/18/21	V
FAG-46-W-16	60369753012	60369753	Aq	5/18/21	V
TB-01-051821 (Trip Blank)	60369753013	60369753	Aq	5/18/21	V
FAG-34-W-16	60369924001	60369924	Aq	5/19/21	V
FAG-05-W-16	60369924002	60369924	Aq	5/19/21	V
LIST B FD (Field Duplicate of FAG-05-W-16)	60369924003	60369924	Aq	5/19/21	V
FAG-73-W-16	60369924004	60369924	Aq	5/19/21	V
FAG-73-W-16MS (Matrix Spike)	2908222	60369924	Aq	5/19/21	V
FAG-73-W-16MSD (Matrix Spike Duplicate)	2908223	60369924	Aq	5/19/21	V
R1-MW1-W-16	60369924005	60369924	Aq	5/19/21	V
FAG-11-W-16	60369924006	60369924	Aq	5/19/21	V
R1-MW9-W-16	60369924007	60369924	Aq	5/19/21	V
FAG-50-W-16	60369924008	60369924	Aq	5/19/21	V
FAG-88-W-16	60369924009	60369924	Aq	5/19/21	V
FAG-88-W-16MS (Matrix Spike)	2905695	60369924	Aq	5/19/21	V
FAG-88-W-16MSD (Matrix Spike Duplicate)	2905696	60369924	Aq	5/19/21	V

TABLE 1 (Cont.)

Ramboll Environ Sample Identification	Laboratory Sample Identification	Pace Project Number	Matrix	Date Sample Collected	Parameter Examined
FAG-32-W-16	60369924010	60369924	Aq	5/19/21	V
LIST A FD (Field Duplicate of FAG-32-W-16)	60369924011	60369924	Aq	5/19/21	V
FAG-36-W-16	60369924012	60369924	Aq	5/19/21	V
EB-01-051921 (Equipment Blank)	60369924013	60369924	Aq	5/19/21	V
FAG-AW4-W-16	60369924014	60369924	Aq	5/19/21	V
TB-01-051921 (Trip Blank)	60369924015	60369924	Aq	5/19/21	V
TB-02-051921 (Trip Blank)	60369924016	60369924	Aq	5/19/21	V
FAG-89-W-16	60370012001	60370012	Aq	5/20/21	V
FAG-31-W-16	60370012002	60370012	Aq	5/20/21	V
FAG-22-W-16	60370012003	60370012	Aq	5/20/21	V
RW-341A-W-16	60370012004	60370012	Aq	5/20/21	V
SW-01-W-16	60370012005	60370012	Aq	5/20/21	V
TB-01-052021 (Trip Blank)	60370012006	60370012	Aq	5/20/21	V
FAG-85-W-16	60370145001	60370145	Aq	5/21/21	V
FAG-74-W-16	60370145002	60370145	Aq	5/21/21	V
TB-01-052121 (Trip Blank)	60370145003	60370145	Aq	5/21/21	V

NOTE:

V - Volatile Organic Compounds by SW-846 Method 8260. (42 analyses)

Section 1 Quality Assurance Review

A. Organic Data

The organic analyses of 42 aqueous samples (including QC samples) were performed by Pace in Lenexa, Kansas. All samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260 and were validated as indicated on Table 1. Reduced data package deliverables, which allowed for a Limited, third-party validation, were provided.

The findings offered in this report are based on a review of the holding times, condition of samples upon laboratory receipt, laboratory and field blank results, field duplicate precision, laboratory control sample (LCS) recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision, and surrogate recoveries.

Issues are typically presented in two categories - reporting issues and procedural issues. Reporting issues are data deliverable issues that can easily be corrected and that may or may not impact the usability of the reported results. Procedural issues are issues that cannot be corrected and address method compliance issues; these issues may or may not impact the usability of the reported results. No reporting and procedural issues were identified in this QA review. The data reviewer has included copies of QC forms and other documentation needed to support any changes made to the data package in the Organic Data Support Documentation (Section 3) of this report.

Reporting Issue

- No reporting issues were observed for this QA review.

Procedural Issue

- No procedural issues were observed for this QA review.

Comments

1. For Pace Project Number 60370012, the Chain-of-Custody Record lists client sample identification TB-02-052021; however, according to the Sample Condition Upon Receipt form, this trip blank was not received by the laboratory. VOC results were not reported for this sample.

2. The following field duplicate pairs were submitted and analyzed for VOCs with these data sets. Acceptable precision and sample representativeness (*i.e.,* the relative percent difference between results was ≤ 20% when both results were ≥ 5× the reporting limit [RL], or the difference between the results was ≤ the RL when at least one result was < 5× the RL) were demonstrated between the reported results in the duplicate samples. Complete comparisons of the field duplicate positive results are included in Section 3.

Pace Project Number	Parent Sample	Field Duplicate Sample
60369924	FAG-05-W-16	LIST B-FD
60369924	FAG-32-W-16	LIST A-FD

3. The laboratory analyzed the samples on the table below at initial dilutions for the analyses indicated. The RLs for all target analytes were raised based on the dilution performed, and “not-detected” results were reported at elevated detection limits.

Pace Project Number	Sample(s)	Dilution Factor
60369753	FAG-35-W-16	5-fold
60369924	FAG-34-W-16	5-fold
60369924	FAG-36-W-16 and FAG-AW4-W-16	10-fold
60369924	FAG-50-W-16	20-fold
60370012	FAG-31-W-16 and FAG-22-W-16	10-fold
60370145	FAG-85-W-16	5-fold

4. The samples in the data packages provided for review were collectively analyzed for VOCs, gases (specifically ethane, ethene, and methane), and/or anions (specifically, chloride, sulfate, and nitrate). Per Ramboll Environ’s previous request, data validation was performed on the VOC data only.

With regard to data usability, the principal area of concern is low MS/MSD recoveries. Based on a review of the data provided, the following organic data qualifier is offered. The following organic data usability issue represents an interpretation of the QC results obtained for the project samples. Accordingly, the following data usability issue should not necessarily be construed as an indication of laboratory performance.

Organic Data Qualifier

- The RL for hexachloro-1,3-butadiene in Pace Project Number 60369924 sample FAG-73-W-16 may be higher than reported, and the “not-detected” result has been flagged “UJ” on the Analytical Results forms. Low recoveries (< the laboratory lower acceptance limit) were observed for this compound in the associated MS/MSD analyses.

B. Conclusions

This QA review has identified one aspect of the data that required qualification. The analytical data should be considered acceptable for use unless otherwise indicated in the QA review. In order to use any of the data, the data user should understand the qualifications and limitations specified in this QA review. The Analytical Results are presented in Section 2. The Organic Data Support Documentation is presented in Section 3, and the Project Chain-of-Custody Records are presented in Section 4.

Report Prepared by,

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Senior Quality Assurance Chemist

Report Reviewed and Approved by

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Date: 6/30/21

SECTION 2

ANALYTICAL RESULTS

ORGANIC DATA QUALIFIERS

U	This compound was not detected at or above the associated reporting limit.
U*	This compound should be considered “not-detected” because it was detected in an associated blank at a similar level.
J	Quantitation is approximate due to limitations identified during the quality assurance review (data validation).
UR	Unusable practical quantitation limit; compound may or may not be present in this sample.
R	Unusable positive result; compound may or may not be present in this sample.
UJ	This compound was not detected, but the practical quantitation limit is probably higher due to a low bias identified during the quality assurance review.
N	This result should be considered a tentative qualitative identification.

A. PACE PROJECT NUMBER 60369753

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-33-W-16 **Lab ID: 60369753001** Collected: 05/18/21 08:15 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/23/21 00:37	74-84-0	
Ethene	ND	ug/L	10.0	1		05/23/21 00:37	74-85-1	
Methane	ND	ug/L	10.0	1		05/23/21 00:37	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 17:10	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 17:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 17:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 17:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 17:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 17:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 17:10	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 17:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 17:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 17:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 17:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:10	107-06-2	
1,2-Dichloroethene (Total)	**4.4**	ug/L	1.0	1		05/25/21 17:10	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:10	75-35-4	
cis-1,2-Dichloroethene	**4.4**	ug/L	1.0	1		05/25/21 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-33-W-16 **Lab ID: 60369753001** Collected: 05/18/21 08:15 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 17:10	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 17:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 17:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 17:10	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 17:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 17:10	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 17:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 17:10	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:10	79-00-5	
Trichloroethene	**28.9**	ug/L	1.0	1		05/25/21 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 17:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 17:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 17:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/25/21 17:10	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		05/25/21 17:10	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/25/21 17:10	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 17:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**14.6**	mg/L	1.0	1		06/01/21 15:39	16887-00-6	
Sulfate	**1.6**	mg/L	1.0	1		06/01/21 15:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/19/21 14:44		
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/19/21 14:44	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 14:44	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-56-W-16 **Lab ID: 60369753002** Collected: 05/18/21 09:07 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/23/21 00:56	74-84-0	
Ethene	ND	ug/L	10.0	1		05/23/21 00:56	74-85-1	
Methane	ND	ug/L	10.0	1		05/23/21 00:56	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 17:26	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 17:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 17:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 17:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 17:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 17:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 17:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 17:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 17:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 17:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 17:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 17:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 17:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 17:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 17:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 17:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 17:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 17:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:26	107-06-2	
1,2-Dichloroethene (Total)	**77.9**	ug/L	1.0	1		05/25/21 17:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:26	75-35-4	
cis-1,2-Dichloroethene	**76.8**	ug/L	1.0	1		05/25/21 17:26	156-59-2	
trans-1,2-Dichloroethene	**1.1**	ug/L	1.0	1		05/25/21 17:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-56-W-16 **Lab ID: 60369753002** Collected: 05/18/21 09:07 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 17:26	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 17:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 17:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 17:26	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 17:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 17:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 17:26	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 17:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 17:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 17:26	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 17:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:26	79-00-5	
Trichloroethene	**7.8**	ug/L	1.0	1		05/25/21 17:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 17:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 17:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 17:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 17:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		05/25/21 17:26	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		05/25/21 17:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/25/21 17:26	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 17:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**14.8**	mg/L	1.0	1		06/01/21 16:11	16887-00-6	
Sulfate	**33.5**	mg/L	5.0	5		06/02/21 11:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.59**	mg/L	0.10	1		05/19/21 14:45		
Nitrogen, Nitrate	**0.59**	mg/L	0.10	1		05/19/21 14:45	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 14:45	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW8-W-16 **Lab ID: 60369753003** Collected: 05/18/21 09:38 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 17:41	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 17:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 17:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 17:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 17:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 17:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 17:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 17:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 17:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 17:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 17:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 17:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 17:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 17:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 17:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 17:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 17:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 17:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/25/21 17:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 17:41	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 17:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 17:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 17:41	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 17:41	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW8-W-16 **Lab ID: 60369753003** Collected: 05/18/21 09:38 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 17:41	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 17:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 17:41	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 17:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:41	79-00-5	
Trichloroethene	**2.1**	ug/L	1.0	1		05/25/21 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 17:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 17:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 17:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 17:41	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		05/25/21 17:41	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/25/21 17:41	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1		05/25/21 17:41	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 17:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.7**	mg/L	2.0	2		06/01/21 16:28	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW2-W-16 **Lab ID: 60369753004** Collected: 05/18/21 10:50 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 17:56	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 17:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 17:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 17:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 17:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 17:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 17:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 17:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 17:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 17:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 17:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 17:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 17:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 17:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 17:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 17:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 17:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 17:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 17:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 17:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 17:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/25/21 17:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 17:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 17:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 17:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 17:56	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 17:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 17:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 17:56	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 17:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 17:56	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW2-W-16 **Lab ID: 60369753004** Collected: 05/18/21 10:50 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 17:56	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 17:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 17:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 17:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 17:56	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 17:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 17:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 17:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/21 17:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 17:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 17:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 17:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 17:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 17:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		05/25/21 17:56	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		05/25/21 17:56	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/25/21 17:56	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 17:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**17.1**	mg/L	2.0	2		06/01/21 16:44	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW5-W-16 **Lab ID: 60369753005** Collected: 05/18/21 11:54 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 18:11	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 18:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 18:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 18:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 18:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 18:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 18:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 18:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 18:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 18:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 18:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 18:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 18:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 18:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 18:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 18:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 18:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 18:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 18:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/25/21 18:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 18:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 18:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 18:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 18:11	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 18:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 18:11	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW5-W-16 **Lab ID: 60369753005** Collected: 05/18/21 11:54 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 18:11	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 18:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 18:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 18:11	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 18:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/21 18:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 18:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 18:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 18:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 18:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		05/25/21 18:11	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/25/21 18:11	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		05/25/21 18:11	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 18:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**1.5**	mg/L	1.0	1		06/02/21 11:38	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-62-W-16 **Lab ID: 60369753006** Collected: 05/18/21 12:55 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/23/21 01:15	74-84-0	
Ethene	ND	ug/L	10.0	1		05/23/21 01:15	74-85-1	
Methane	ND	ug/L	10.0	1		05/23/21 01:15	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 18:27	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 18:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 18:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 18:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 18:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 18:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 18:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 18:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 18:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 18:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 18:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 18:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 18:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:27	107-06-2	
1,2-Dichloroethene (Total)	**13.8**	ug/L	1.0	1		05/25/21 18:27	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:27	75-35-4	
cis-1,2-Dichloroethene	**13.8**	ug/L	1.0	1		05/25/21 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-62-W-16 **Lab ID: 60369753006** Collected: 05/18/21 12:55 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 18:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 18:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 18:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 18:27	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 18:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 18:27	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 18:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 18:27	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:27	79-00-5	
Trichloroethene	**23.9**	ug/L	1.0	1		05/25/21 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 18:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 18:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 18:27	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		05/25/21 18:27	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		05/25/21 18:27	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		05/25/21 18:27	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 18:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**16.4**	mg/L	1.0	1		06/01/21 17:17	16887-00-6	
Sulfate	**15.2**	mg/L	1.0	1		06/01/21 17:17	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/19/21 14:49		
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/19/21 14:49	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 14:49	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-43-W-16 **Lab ID: 60369753007** Collected: 05/18/21 13:42 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 18:42	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 18:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 18:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 18:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 18:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 18:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 18:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 18:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 18:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 18:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 18:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 18:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 18:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 18:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 18:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 18:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 18:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 18:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:42	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/25/21 18:42	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 18:42	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 18:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 18:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 18:42	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 18:42	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-43-W-16 **Lab ID: 60369753007** Collected: 05/18/21 13:42 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 18:42	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 18:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 18:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 18:42	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 18:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/21 18:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 18:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 18:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 18:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 18:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		05/25/21 18:42	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/25/21 18:42	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		05/25/21 18:42	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 18:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**2.3**	mg/L	1.0	1		06/02/21 11:54	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW7-W-16 **Lab ID: 60369753008** Collected: 05/18/21 14:55 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 18:57	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 18:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 18:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 18:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 18:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 18:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 18:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 18:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 18:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 18:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 18:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 18:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 18:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 18:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 18:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 18:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 18:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 18:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 18:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 18:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 18:57	107-06-2	
1,2-Dichloroethene (Total)	**2.9**	ug/L	1.0	1		05/25/21 18:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:57	75-35-4	
cis-1,2-Dichloroethene	**2.9**	ug/L	1.0	1		05/25/21 18:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 18:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 18:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 18:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 18:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 18:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 18:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 18:57	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 18:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 18:57	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW7-W-16 **Lab ID: 60369753008** Collected: 05/18/21 14:55 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 18:57	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 18:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 18:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 18:57	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 18:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 18:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 18:57	79-00-5	
Trichloroethene	**19.5**	ug/L	1.0	1		05/25/21 18:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 18:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 18:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 18:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 18:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 18:57	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		05/25/21 18:57	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		05/25/21 18:57	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1		05/25/21 18:57	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 18:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**6.2**	mg/L	2.0	2		06/01/21 18:22	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-35-W-16 **Lab ID: 60369753009** Collected: 05/18/21 15:31 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/23/21 01:35	74-84-0	
Ethene	ND	ug/L	10.0	1		05/23/21 01:35	74-85-1	
Methane	ND	ug/L	10.0	1		05/23/21 01:35	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	50.0	5		05/25/21 19:12	67-64-1	
Benzene	ND	ug/L	5.0	5		05/25/21 19:12	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		05/25/21 19:12	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		05/25/21 19:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		05/25/21 19:12	75-27-4	
Bromoform	ND	ug/L	5.0	5		05/25/21 19:12	75-25-2	
Bromomethane	ND	ug/L	25.0	5		05/25/21 19:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	5		05/25/21 19:12	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	98-06-6	
Carbon disulfide	ND	ug/L	25.0	5		05/25/21 19:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		05/25/21 19:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		05/25/21 19:12	108-90-7	
Chloroethane	ND	ug/L	5.0	5		05/25/21 19:12	75-00-3	
Chloroform	ND	ug/L	5.0	5		05/25/21 19:12	67-66-3	
Chloromethane	ND	ug/L	5.0	5		05/25/21 19:12	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		05/25/21 19:12	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		05/25/21 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		05/25/21 19:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		05/25/21 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		05/25/21 19:12	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		05/25/21 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		05/25/21 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		05/25/21 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		05/25/21 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		05/25/21 19:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		05/25/21 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		05/25/21 19:12	107-06-2	
1,2-Dichloroethene (Total)	**115**	ug/L	5.0	5		05/25/21 19:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		05/25/21 19:12	75-35-4	
cis-1,2-Dichloroethene	**113**	ug/L	5.0	5		05/25/21 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		05/25/21 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		05/25/21 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		05/25/21 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		05/25/21 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		05/25/21 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		05/25/21 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		05/25/21 19:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-35-W-16 **Lab ID: 60369753009** Collected: 05/18/21 15:31 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		05/25/21 19:12	87-68-3	
2-Hexanone	ND	ug/L	50.0	5		05/25/21 19:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		05/25/21 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		05/25/21 19:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	5		05/25/21 19:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		05/25/21 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		05/25/21 19:12	1634-04-4	
Naphthalene	ND	ug/L	50.0	5		05/25/21 19:12	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	103-65-1	
Styrene	ND	ug/L	5.0	5		05/25/21 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		05/25/21 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		05/25/21 19:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		05/25/21 19:12	127-18-4	
Toluene	ND	ug/L	5.0	5		05/25/21 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		05/25/21 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		05/25/21 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		05/25/21 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		05/25/21 19:12	79-00-5	
Trichloroethene	**488**	ug/L	5.0	5		05/25/21 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		05/25/21 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		05/25/21 19:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		05/25/21 19:12	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		05/25/21 19:12	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		05/25/21 19:12	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	5		05/25/21 19:12	460-00-4	
Toluene-d8 (S)	102	%	80-120	5		05/25/21 19:12	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	5		05/25/21 19:12	2199-69-1	
Preservation pH	**1.0**		0.10	5		05/25/21 19:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**14.5**	mg/L	2.0	2		06/01/21 19:11	16887-00-6	
Sulfate	**15.3**	mg/L	2.0	2		06/01/21 19:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.10	1		05/19/21 14:52		
Nitrogen, Nitrate	**1.3**	mg/L	0.10	1		05/19/21 14:52	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 14:52	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-47-W-16 **Lab ID: 60369753010** Collected: 05/18/21 15:58 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/23/21 02:13	74-84-0	
Ethene	ND	ug/L	10.0	1		05/23/21 02:13	74-85-1	
Methane	ND	ug/L	10.0	1		05/23/21 02:13	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 19:28	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 19:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 19:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 19:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 19:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 19:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 19:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 19:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 19:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 19:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 19:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 19:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 19:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 19:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 19:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 19:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 19:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 19:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 19:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 19:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 19:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 19:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 19:28	107-06-2	
1,2-Dichloroethene (Total)	**5.9**	ug/L	1.0	1		05/25/21 19:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 19:28	75-35-4	
cis-1,2-Dichloroethene	**5.9**	ug/L	1.0	1		05/25/21 19:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 19:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-47-W-16 **Lab ID: 60369753010** Collected: 05/18/21 15:58 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 19:28	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 19:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 19:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 19:28	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 19:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 19:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 19:28	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 19:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 19:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 19:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 19:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 19:28	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 19:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 19:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 19:28	79-00-5	
Trichloroethene	**55.4**	ug/L	1.0	1		05/25/21 19:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 19:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 19:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 19:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 19:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 19:28	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		05/25/21 19:28	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		05/25/21 19:28	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	94	%	80-120	1		05/25/21 19:28	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 19:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.1**	mg/L	2.0	2		06/01/21 19:28	16887-00-6	
Sulfate	**9.7**	mg/L	2.0	2		06/01/21 19:28	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.10	1		05/19/21 14:54		
Nitrogen, Nitrate	**1.1**	mg/L	0.10	1		05/19/21 14:54	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/19/21 14:54	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW6-W-16 **Lab ID: 60369753011** Collected: 05/18/21 16:35 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 19:43	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 19:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 19:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 19:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 19:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 19:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 19:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 19:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 19:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 19:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 19:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 19:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 19:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 19:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 19:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 19:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 19:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 19:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 19:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 19:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 19:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 19:43	107-06-2	
1,2-Dichloroethene (Total)	**8.2**	ug/L	1.0	1		05/25/21 19:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 19:43	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/L	1.0	1		05/25/21 19:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 19:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 19:43	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 19:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 19:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 19:43	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 19:43	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: R1-MW6-W-16 **Lab ID: 60369753011** Collected: 05/18/21 16:35 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 19:43	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 19:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 19:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 19:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 19:43	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 19:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 19:43	79-00-5	
Trichloroethene	**45.4**	ug/L	1.0	1		05/25/21 19:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 19:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 19:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 19:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 19:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 19:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		05/25/21 19:43	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		05/25/21 19:43	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		05/25/21 19:43	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 19:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.0**	mg/L	1.0	1		06/02/21 12:25	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-46-W-16 **Lab ID: 60369753012** Collected: 05/18/21 14:31 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 19:58	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 19:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 19:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 19:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 19:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 19:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 19:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 19:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 19:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 19:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 19:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 19:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 19:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 19:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 19:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 19:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 19:58	107-06-2	
1,2-Dichloroethene (Total)	**4.0**	ug/L	1.0	1		05/25/21 19:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 19:58	75-35-4	
cis-1,2-Dichloroethene	**4.0**	ug/L	1.0	1		05/25/21 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 19:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 19:58	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 19:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 19:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 19:58	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 19:58	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: FAG-46-W-16 **Lab ID: 60369753012** Collected: 05/18/21 14:31 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 19:58	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 19:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 19:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 19:58	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 19:58	79-00-5	
Trichloroethene	**27.7**	ug/L	1.0	1		05/25/21 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 19:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 19:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 19:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 19:58	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		05/25/21 19:58	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		05/25/21 19:58	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		05/25/21 19:58	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 19:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**4.5**	mg/L	1.0	1		06/02/21 12:41	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: TB-01-051821 **Lab ID: 60369753013** Collected: 05/18/21 17:00 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/25/21 20:13	67-64-1	
Benzene	ND	ug/L	1.0	1		05/25/21 20:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/21 20:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/21 20:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/21 20:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/25/21 20:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/25/21 20:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/25/21 20:13	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/25/21 20:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/21 20:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/21 20:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/21 20:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/21 20:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/25/21 20:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 20:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/21 20:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/25/21 20:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/21 20:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/21 20:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/25/21 20:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 20:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 20:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/21 20:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/21 20:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/21 20:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/21 20:13	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/25/21 20:13	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/21 20:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 20:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/21 20:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 20:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/21 20:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/25/21 20:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/21 20:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 20:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/25/21 20:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/25/21 20:13	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/25/21 20:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/21 20:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/21 20:13	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/25/21 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/25/21 20:13	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Sample: TB-01-051821 **Lab ID: 60369753013** Collected: 05/18/21 17:00 Received: 05/19/21 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/21 20:13	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/25/21 20:13	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/21 20:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 20:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/21 20:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/21 20:13	127-18-4	
Toluene	ND	ug/L	1.0	1		05/25/21 20:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 20:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/21 20:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/21 20:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/21 20:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/21 20:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/21 20:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/25/21 20:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/21 20:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/25/21 20:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/21 20:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		05/25/21 20:13	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		05/25/21 20:13	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		05/25/21 20:13	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/25/21 20:13		

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B. PACE PROJECT NUMBER 60369924

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-34-W-16 **Lab ID: 60369924001** Collected: 05/19/21 08:34 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/25/21 16:18	74-84-0	
Ethene	ND	ug/L	10.0	1		05/25/21 16:18	74-85-1	
Methane	ND	ug/L	10.0	1		05/25/21 16:18	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	50.0	5		05/27/21 11:08	67-64-1	
Benzene	ND	ug/L	5.0	5		05/27/21 11:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		05/27/21 11:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		05/27/21 11:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		05/27/21 11:08	75-27-4	
Bromoform	ND	ug/L	5.0	5		05/27/21 11:08	75-25-2	
Bromomethane	ND	ug/L	25.0	5		05/27/21 11:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	5		05/27/21 11:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	98-06-6	
Carbon disulfide	ND	ug/L	25.0	5		05/27/21 11:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		05/27/21 11:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		05/27/21 11:08	108-90-7	
Chloroethane	ND	ug/L	5.0	5		05/27/21 11:08	75-00-3	
Chloroform	ND	ug/L	5.0	5		05/27/21 11:08	67-66-3	
Chloromethane	ND	ug/L	5.0	5		05/27/21 11:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		05/27/21 11:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		05/27/21 11:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		05/27/21 11:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		05/27/21 11:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		05/27/21 11:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		05/27/21 11:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		05/27/21 11:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		05/27/21 11:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		05/27/21 11:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		05/27/21 11:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		05/27/21 11:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		05/27/21 11:08	107-06-2	
1,2-Dichloroethene (Total)	**243**	ug/L	5.0	5		05/27/21 11:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		05/27/21 11:08	75-35-4	
cis-1,2-Dichloroethene	**238**	ug/L	5.0	5		05/27/21 11:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		05/27/21 11:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		05/27/21 11:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		05/27/21 11:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		05/27/21 11:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		05/27/21 11:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		05/27/21 11:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		05/27/21 11:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-34-W-16 **Lab ID: 60369924001** Collected: 05/19/21 08:34 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		05/27/21 11:08	87-68-3	
2-Hexanone	ND	ug/L	50.0	5		05/27/21 11:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		05/27/21 11:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		05/27/21 11:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	5		05/27/21 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		05/27/21 11:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		05/27/21 11:08	1634-04-4	
Naphthalene	ND	ug/L	50.0	5		05/27/21 11:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	103-65-1	
Styrene	ND	ug/L	5.0	5		05/27/21 11:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		05/27/21 11:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		05/27/21 11:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		05/27/21 11:08	127-18-4	
Toluene	ND	ug/L	5.0	5		05/27/21 11:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		05/27/21 11:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		05/27/21 11:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		05/27/21 11:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		05/27/21 11:08	79-00-5	
Trichloroethene	**462**	ug/L	5.0	5		05/27/21 11:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		05/27/21 11:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		05/27/21 11:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		05/27/21 11:08	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		05/27/21 11:08	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		05/27/21 11:08	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	5		05/27/21 11:08	460-00-4	
Toluene-d8 (S)	96	%	80-120	5		05/27/21 11:08	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	5		05/27/21 11:08	2199-69-1	
Preservation pH	**1.0**		0.10	5		05/27/21 11:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**12.3**	mg/L	1.0	1		06/02/21 18:00	16887-00-6	
Sulfate	**10.9**	mg/L	1.0	1		06/02/21 18:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.17**	mg/L	0.10	1		05/20/21 14:19		
Nitrogen, Nitrate	**0.17**	mg/L	0.10	1		05/20/21 14:19	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 14:19	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-05-W-16 **Lab ID: 60369924002** Collected: 05/19/21 09:00 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 10:40	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 10:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 10:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 10:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 10:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 10:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 10:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 10:40	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 10:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 10:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 10:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 10:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 10:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 10:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 10:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 10:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 10:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 10:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 10:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:40	107-06-2	
1,2-Dichloroethene (Total)	**3.1**	ug/L	1.0	1		05/27/21 10:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:40	75-35-4	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	1		05/27/21 10:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 10:40	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 10:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 10:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 10:40	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 10:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 10:40	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-05-W-16 **Lab ID: 60369924002** Collected: 05/19/21 09:00 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 10:40	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 10:40	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 10:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 10:40	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 10:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:40	79-00-5	
Trichloroethene	**23.9**	ug/L	1.0	1		05/27/21 10:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 10:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 10:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 10:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 10:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		05/27/21 10:40	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		05/27/21 10:40	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	80-120	1		05/27/21 10:40	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 10:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**33.3**	mg/L	5.0	5		06/03/21 09:23	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: LIST B FD **Lab ID: 60369924003** Collected: 05/19/21 09:00 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 10:54	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 10:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 10:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 10:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 10:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 10:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 10:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 10:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 10:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 10:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 10:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 10:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 10:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 10:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 10:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 10:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 10:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 10:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 10:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:54	107-06-2	
1,2-Dichloroethene (Total)	**3.3**	ug/L	1.0	1		05/27/21 10:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:54	75-35-4	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	1		05/27/21 10:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 10:54	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 10:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 10:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 10:54	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 10:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 10:54	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: LIST B FD **Lab ID: 60369924003** Collected: 05/19/21 09:00 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 10:54	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 10:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 10:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 10:54	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 10:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:54	79-00-5	
Trichloroethene	**23.5**	ug/L	1.0	1		05/27/21 10:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 10:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 10:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 10:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 10:54	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/27/21 10:54	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/27/21 10:54	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1		05/27/21 10:54	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 10:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**33.1**	mg/L	5.0	5		06/03/21 09:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-73-W-16 **Lab ID: 60369924004** Collected: 05/19/21 09:15 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/25/21 16:37	74-84-0	
Ethene	ND	ug/L	10.0	1		05/25/21 16:37	74-85-1	
Methane	**207**	ug/L	10.0	1		05/25/21 16:37	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/28/21 16:07	67-64-1	
Benzene	ND	ug/L	1.0	1		05/28/21 16:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/28/21 16:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/28/21 16:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/28/21 16:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/28/21 16:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/28/21 16:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/28/21 16:07	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/28/21 16:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/28/21 16:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/28/21 16:07	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/28/21 16:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/28/21 16:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/28/21 16:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/28/21 16:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/28/21 16:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/28/21 16:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 16:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 16:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/28/21 16:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/28/21 16:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/28/21 16:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/28/21 16:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 16:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/28/21 16:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/28/21 16:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/28/21 16:07	107-06-2	
1,2-Dichloroethene (Total)	**49.6**	ug/L	1.0	1		05/28/21 16:07	540-59-0	
1,1-Dichloroethene	**1.5**	ug/L	1.0	1		05/28/21 16:07	75-35-4	
cis-1,2-Dichloroethene	**45.8**	ug/L	1.0	1		05/28/21 16:07	156-59-2	
trans-1,2-Dichloroethene	**3.8**	ug/L	1.0	1		05/28/21 16:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 16:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/28/21 16:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 16:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/28/21 16:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 16:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 16:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/28/21 16:07	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-73-W-16 **Lab ID: 60369924004** Collected: 05/19/21 09:15 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units		Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
	Pace Analytical Services - Kansas City								
Hexachloro-1,3-butadiene	ND	ug/L	UJ	1.0	1		05/28/21 16:07	87-68-3	M1
2-Hexanone	ND	ug/L		10.0	1		05/28/21 16:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L		1.0	1		05/28/21 16:07	98-82-8	
p-Isopropyltoluene	ND	ug/L		1.0	1		05/28/21 16:07	99-87-6	
Methylene Chloride	ND	ug/L		1.0	1		05/28/21 16:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L		10.0	1		05/28/21 16:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L		1.0	1		05/28/21 16:07	1634-04-4	
Naphthalene	ND	ug/L		10.0	1		05/28/21 16:07	91-20-3	
n-Propylbenzene	ND	ug/L		1.0	1		05/28/21 16:07	103-65-1	
Styrene	ND	ug/L		1.0	1		05/28/21 16:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0	1		05/28/21 16:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	1		05/28/21 16:07	79-34-5	
Tetrachloroethene	ND	ug/L		1.0	1		05/28/21 16:07	127-18-4	
Toluene	ND	ug/L		1.0	1		05/28/21 16:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L		1.0	1		05/28/21 16:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L		1.0	1		05/28/21 16:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L		1.0	1		05/28/21 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L		1.0	1		05/28/21 16:07	79-00-5	
Trichloroethene	**18.8**	ug/L		1.0	1		05/28/21 16:07	79-01-6	
Trichlorofluoromethane	ND	ug/L		1.0	1		05/28/21 16:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L		2.5	1		05/28/21 16:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L		1.0	1		05/28/21 16:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L		1.0	1		05/28/21 16:07	108-67-8	
Vinyl chloride	**4.2**	ug/L		1.0	1		05/28/21 16:07	75-01-4	
Xylene (Total)	ND	ug/L		3.0	1		05/28/21 16:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%		80-120	1		05/28/21 16:07	460-00-4	
Toluene-d8 (S)	101	%		80-120	1		05/28/21 16:07	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%		80-120	1		05/28/21 16:07	2199-69-1	
Preservation pH	**1.0**			0.10	1		05/28/21 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
	Pace Analytical Services - Kansas City								
Chloride	**15.1**	mg/L		1.0	1		06/02/21 19:03	16887-00-6	
Sulfate	**9.4**	mg/L		1.0	1		06/02/21 19:03	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
	Pace Analytical Services - Kansas City								
Nitrogen, NO2 plus NO3	ND	mg/L		0.10	1		05/20/21 14:21		
Nitrogen, Nitrate	ND	mg/L		0.10	1		05/20/21 14:21	14797-55-8	
Nitrogen, Nitrite	ND	mg/L		0.10	1		05/20/21 14:21	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: R1-MW1-W-16 **Lab ID: 60369924005** Collected: 05/19/21 10:41 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 10:26	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 10:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 10:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 10:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 10:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 10:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 10:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 10:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 10:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 10:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 10:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 10:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 10:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 10:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 10:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 10:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 10:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 10:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 10:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:26	107-06-2	
1,2-Dichloroethene (Total)	**2.0**	ug/L	1.0	1		05/27/21 10:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:26	75-35-4	
cis-1,2-Dichloroethene	**2.0**	ug/L	1.0	1		05/27/21 10:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 10:26	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 10:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 10:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 10:26	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 10:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 10:26	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: R1-MW1-W-16 **Lab ID: 60369924005** Collected: 05/19/21 10:41 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 10:26	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 10:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 10:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 10:26	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 10:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:26	79-00-5	
Trichloroethene	**68.3**	ug/L	1.0	1		05/27/21 10:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 10:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 10:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 10:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 10:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/27/21 10:26	460-00-4	
Toluene-d8 (S)	96	%	80-120	1		05/27/21 10:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1		05/27/21 10:26	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 10:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**9.7**	mg/L	1.0	1		06/02/21 21:42	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-11-W-16 **Lab ID: 60369924006** Collected: 05/19/21 10:48 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 09:15	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 09:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 09:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 09:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 09:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 09:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 09:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 09:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 09:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 09:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 09:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 09:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 09:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 09:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 09:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 09:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 09:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 09:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 09:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:15	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/27/21 09:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 09:15	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 09:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 09:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 09:15	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 09:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 09:15	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-11-W-16 **Lab ID: 60369924006** Collected: 05/19/21 10:48 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 09:15	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 09:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 09:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 09:15	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 09:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/27/21 09:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 09:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 09:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 09:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 09:15	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/27/21 09:15	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		05/27/21 09:15	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/27/21 09:15	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 09:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**24.9**	mg/L	5.0	5		06/03/21 09:47	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: R1-MW9-W-16 **Lab ID: 60369924007** Collected: 05/19/21 12:28 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 09:29	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 09:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 09:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 09:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 09:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 09:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 09:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 09:29	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 09:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 09:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 09:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 09:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 09:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 09:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 09:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 09:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 09:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 09:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 09:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/27/21 09:29	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 09:29	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 09:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 09:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 09:29	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 09:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 09:29	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: R1-MW9-W-16 **Lab ID: 60369924007** Collected: 05/19/21 12:28 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 09:29	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 09:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 09:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 09:29	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 09:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:29	79-00-5	
Trichloroethene	**6.9**	ug/L	1.0	1		05/27/21 09:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 09:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 09:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 09:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 09:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		05/27/21 09:29	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		05/27/21 09:29	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/27/21 09:29	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 09:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**13.8**	mg/L	1.0	1		06/02/21 22:14	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-50-W-16 **Lab ID: 60369924008** Collected: 05/19/21 12:50 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/25/21 17:16	74-84-0	
Ethene	ND	ug/L	10.0	1		05/25/21 17:16	74-85-1	
Methane	ND	ug/L	10.0	1		05/25/21 17:16	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	200	20		05/27/21 12:05	67-64-1	
Benzene	ND	ug/L	20.0	20		05/27/21 12:05	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		05/27/21 12:05	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		05/27/21 12:05	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		05/27/21 12:05	75-27-4	
Bromoform	ND	ug/L	20.0	20		05/27/21 12:05	75-25-2	
Bromomethane	ND	ug/L	100	20		05/27/21 12:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	20		05/27/21 12:05	78-93-3	
n-Butylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	135-98-8	
tert-Butylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	98-06-6	
Carbon disulfide	ND	ug/L	100	20		05/27/21 12:05	75-15-0	
Carbon tetrachloride	ND	ug/L	20.0	20		05/27/21 12:05	56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		05/27/21 12:05	108-90-7	
Chloroethane	ND	ug/L	20.0	20		05/27/21 12:05	75-00-3	
Chloroform	ND	ug/L	20.0	20		05/27/21 12:05	67-66-3	
Chloromethane	ND	ug/L	20.0	20		05/27/21 12:05	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		05/27/21 12:05	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		05/27/21 12:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	20		05/27/21 12:05	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		05/27/21 12:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		05/27/21 12:05	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		05/27/21 12:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		05/27/21 12:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	20		05/27/21 12:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	20		05/27/21 12:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		05/27/21 12:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		05/27/21 12:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		05/27/21 12:05	107-06-2	
1,2-Dichloroethene (Total)	**62.4**	ug/L	20.0	20		05/27/21 12:05	540-59-0	
1,1-Dichloroethene	ND	ug/L	20.0	20		05/27/21 12:05	75-35-4	
cis-1,2-Dichloroethene	**62.4**	ug/L	20.0	20		05/27/21 12:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		05/27/21 12:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	20.0	20		05/27/21 12:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	20.0	20		05/27/21 12:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	20		05/27/21 12:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	20		05/27/21 12:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	20		05/27/21 12:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	20		05/27/21 12:05	10061-02-6	
Ethylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-50-W-16 **Lab ID: 60369924008** Collected: 05/19/21 12:50 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	20.0	20		05/27/21 12:05	87-68-3	
2-Hexanone	ND	ug/L	200	20		05/27/21 12:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	20.0	20		05/27/21 12:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	20.0	20		05/27/21 12:05	99-87-6	
Methylene Chloride	ND	ug/L	20.0	20		05/27/21 12:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	20		05/27/21 12:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		05/27/21 12:05	1634-04-4	
Naphthalene	ND	ug/L	200	20		05/27/21 12:05	91-20-3	
n-Propylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	103-65-1	
Styrene	ND	ug/L	20.0	20		05/27/21 12:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	20		05/27/21 12:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		05/27/21 12:05	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	20		05/27/21 12:05	127-18-4	
Toluene	ND	ug/L	20.0	20		05/27/21 12:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		05/27/21 12:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		05/27/21 12:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		05/27/21 12:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		05/27/21 12:05	79-00-5	
Trichloroethene	**3220**	ug/L	20.0	20		05/27/21 12:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		05/27/21 12:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	20		05/27/21 12:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	20		05/27/21 12:05	108-67-8	
Vinyl chloride	ND	ug/L	20.0	20		05/27/21 12:05	75-01-4	
Xylene (Total)	ND	ug/L	60.0	20		05/27/21 12:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	20		05/27/21 12:05	460-00-4	
Toluene-d8 (S)	99	%	80-120	20		05/27/21 12:05	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	20		05/27/21 12:05	2199-69-1	
Preservation pH	**1.0**		0.10	20		05/27/21 12:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**9.0**	mg/L	1.0	1		06/02/21 22:29	16887-00-6	
Sulfate	**6.7**	mg/L	1.0	1		06/02/21 22:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.25**	mg/L	0.10	1		05/20/21 14:39		
Nitrogen, Nitrate	**0.25**	mg/L	0.10	1		05/20/21 14:39	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 14:39	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-88-W-16 **Lab ID: 60369924009** Collected: 05/19/21 13:40 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 09:43	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 09:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 09:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 09:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 09:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 09:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 09:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 09:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 09:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 09:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 09:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 09:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 09:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 09:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 09:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 09:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 09:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 09:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 09:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:43	107-06-2	
1,2-Dichloroethene (Total)	**1.6**	ug/L	1.0	1		05/27/21 09:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:43	75-35-4	
cis-1,2-Dichloroethene	**1.6**	ug/L	1.0	1		05/27/21 09:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 09:43	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 09:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 09:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 09:43	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 09:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 09:43	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-88-W-16 **Lab ID: 60369924009** Collected: 05/19/21 13:40 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 09:43	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 09:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 09:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 09:43	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 09:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:43	79-00-5	
Trichloroethene	**6.5**	ug/L	1.0	1		05/27/21 09:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 09:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 09:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 09:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 09:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	1		05/27/21 09:43	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		05/27/21 09:43	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		05/27/21 09:43	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 09:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**5.9**	mg/L	1.0	1		06/04/21 01:58	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-32-W-16 **Lab ID: 60369924010** Collected: 05/19/21 12:30 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/25/21 17:35	74-84-0	
Ethene	ND	ug/L	10.0	1		05/25/21 17:35	74-85-1	
Methane	ND	ug/L	10.0	1		05/25/21 17:35	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 09:57	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 09:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 09:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 09:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 09:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 09:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 09:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 09:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 09:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 09:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 09:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 09:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 09:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 09:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 09:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 09:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 09:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 09:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 09:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:57	107-06-2	
1,2-Dichloroethene (Total)	**44.2**	ug/L	1.0	1		05/27/21 09:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:57	75-35-4	
cis-1,2-Dichloroethene	**43.7**	ug/L	1.0	1		05/27/21 09:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-32-W-16 **Lab ID: 60369924010** Collected: 05/19/21 12:30 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 09:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 09:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 09:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 09:57	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 09:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 09:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 09:57	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 09:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 09:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 09:57	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 09:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:57	79-00-5	
Trichloroethene	**183**	ug/L	1.0	1		05/27/21 09:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 09:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 09:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 09:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 09:57	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		05/27/21 09:57	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/27/21 09:57	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1		05/27/21 09:57	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 09:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.3**	mg/L	1.0	1		06/02/21 23:01	16887-00-6	
Sulfate	**12.8**	mg/L	1.0	1		06/02/21 23:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.28**	mg/L	0.10	1		05/20/21 14:37		
Nitrogen, Nitrate	**0.28**	mg/L	0.10	1		05/20/21 14:37	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 14:37	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: LIST A FD **Lab ID: 60369924011** Collected: 05/19/21 12:30 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/25/21 17:54	74-84-0	
Ethene	ND	ug/L	10.0	1		05/25/21 17:54	74-85-1	
Methane	ND	ug/L	10.0	1		05/25/21 17:54	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 10:12	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 10:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 10:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 10:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 10:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 10:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 10:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 10:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 10:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 10:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 10:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 10:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 10:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 10:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 10:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 10:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 10:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 10:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 10:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 10:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 10:12	107-06-2	
1,2-Dichloroethene (Total)	**39.7**	ug/L	1.0	1		05/27/21 10:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:12	75-35-4	
cis-1,2-Dichloroethene	**39.3**	ug/L	1.0	1		05/27/21 10:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 10:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 10:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 10:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: LIST A FD **Lab ID: 60369924011** Collected: 05/19/21 12:30 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 10:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 10:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 10:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 10:12	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 10:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 10:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 10:12	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 10:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 10:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 10:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 10:12	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 10:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 10:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 10:12	79-00-5	
Trichloroethene	**167**	ug/L	1.0	1		05/27/21 10:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 10:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 10:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 10:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 10:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 10:12	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		05/27/21 10:12	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/27/21 10:12	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	80-120	1		05/27/21 10:12	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 10:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.3**	mg/L	1.0	1		06/03/21 00:05	16887-00-6	
Sulfate	**12.8**	mg/L	1.0	1		06/03/21 00:05	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.25**	mg/L	0.10	1		05/20/21 14:38		
Nitrogen, Nitrate	**0.25**	mg/L	0.10	1		05/20/21 14:38	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 14:38	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-36-W-16 **Lab ID: 60369924012** Collected: 05/19/21 15:16 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/25/21 18:33	74-84-0	
Ethene	ND	ug/L	10.0	1		05/25/21 18:33	74-85-1	
Methane	ND	ug/L	10.0	1		05/25/21 18:33	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	100	10		05/27/21 11:37	67-64-1	
Benzene	ND	ug/L	10.0	10		05/27/21 11:37	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/27/21 11:37	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/27/21 11:37	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/27/21 11:37	75-27-4	
Bromoform	ND	ug/L	10.0	10		05/27/21 11:37	75-25-2	
Bromomethane	ND	ug/L	50.0	10		05/27/21 11:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	10		05/27/21 11:37	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	98-06-6	
Carbon disulfide	ND	ug/L	50.0	10		05/27/21 11:37	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		05/27/21 11:37	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/27/21 11:37	108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/27/21 11:37	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/27/21 11:37	67-66-3	
Chloromethane	ND	ug/L	10.0	10		05/27/21 11:37	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/27/21 11:37	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/27/21 11:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		05/27/21 11:37	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/27/21 11:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/27/21 11:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		05/27/21 11:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/27/21 11:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		05/27/21 11:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/27/21 11:37	107-06-2	
1,2-Dichloroethene (Total)	**244**	ug/L	10.0	10		05/27/21 11:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	10.0	10		05/27/21 11:37	75-35-4	
cis-1,2-Dichloroethene	**240**	ug/L	10.0	10		05/27/21 11:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/27/21 11:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		05/27/21 11:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/27/21 11:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		05/27/21 11:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/27/21 11:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		05/27/21 11:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		05/27/21 11:37	10061-02-6	
Ethylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-36-W-16 **Lab ID: 60369924012** Collected: 05/19/21 15:16 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/27/21 11:37	87-68-3	
2-Hexanone	ND	ug/L	100	10		05/27/21 11:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		05/27/21 11:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		05/27/21 11:37	99-87-6	
Methylene Chloride	ND	ug/L	10.0	10		05/27/21 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		05/27/21 11:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/27/21 11:37	1634-04-4	
Naphthalene	ND	ug/L	100	10		05/27/21 11:37	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	103-65-1	
Styrene	ND	ug/L	10.0	10		05/27/21 11:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/27/21 11:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/27/21 11:37	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		05/27/21 11:37	127-18-4	
Toluene	ND	ug/L	10.0	10		05/27/21 11:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		05/27/21 11:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/27/21 11:37	79-00-5	
Trichloroethene	**535**	ug/L	10.0	10		05/27/21 11:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/27/21 11:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		05/27/21 11:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		05/27/21 11:37	108-67-8	
Vinyl chloride	ND	ug/L	10.0	10		05/27/21 11:37	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		05/27/21 11:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	10		05/27/21 11:37	460-00-4	
Toluene-d8 (S)	99	%	80-120	10		05/27/21 11:37	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	80-120	10		05/27/21 11:37	2199-69-1	
Preservation pH	**1.0**		0.10	10		05/27/21 11:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**10.7**	mg/L	1.0	1		06/03/21 00:36	16887-00-6	
Sulfate	**9.7**	mg/L	1.0	1		06/03/21 00:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/20/21 14:40		
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/20/21 14:40	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/20/21 14:40	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: EB-01-051921 **Lab ID: 60369924013** Collected: 05/19/21 15:50 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 08:32	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 08:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 08:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 08:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 08:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 08:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 08:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 08:32	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 08:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 08:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 08:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 08:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 08:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 08:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 08:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 08:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 08:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 08:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 08:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 08:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 08:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 08:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 08:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/27/21 08:32	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 08:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 08:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 08:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 08:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 08:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 08:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 08:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 08:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 08:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 08:32	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 08:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 08:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 08:32	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 08:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 08:32	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: EB-01-051921 **Lab ID: 60369924013** Collected: 05/19/21 15:50 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 08:32	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 08:32	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 08:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 08:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 08:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 08:32	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 08:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 08:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 08:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/27/21 08:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 08:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 08:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 08:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 08:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 08:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%	80-120	1		05/27/21 08:32	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		05/27/21 08:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1		05/27/21 08:32	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 08:32		

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-AW4-W-16 **Lab ID: 60369924014** Collected: 05/19/21 16:57 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	100	10		05/27/21 11:51	67-64-1	
Benzene	ND	ug/L	10.0	10		05/27/21 11:51	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/27/21 11:51	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/27/21 11:51	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/27/21 11:51	75-27-4	
Bromoform	ND	ug/L	10.0	10		05/27/21 11:51	75-25-2	
Bromomethane	ND	ug/L	50.0	10		05/27/21 11:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	10		05/27/21 11:51	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	98-06-6	
Carbon disulfide	ND	ug/L	50.0	10		05/27/21 11:51	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		05/27/21 11:51	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/27/21 11:51	108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/27/21 11:51	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/27/21 11:51	67-66-3	
Chloromethane	ND	ug/L	10.0	10		05/27/21 11:51	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/27/21 11:51	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/27/21 11:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		05/27/21 11:51	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/27/21 11:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/27/21 11:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		05/27/21 11:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/27/21 11:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		05/27/21 11:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/27/21 11:51	107-06-2	
1,2-Dichloroethene (Total)	**297**	ug/L	10.0	10		05/27/21 11:51	540-59-0	
1,1-Dichloroethene	ND	ug/L	10.0	10		05/27/21 11:51	75-35-4	
cis-1,2-Dichloroethene	**292**	ug/L	10.0	10		05/27/21 11:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/27/21 11:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		05/27/21 11:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/27/21 11:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		05/27/21 11:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/27/21 11:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		05/27/21 11:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		05/27/21 11:51	10061-02-6	
Ethylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/27/21 11:51	87-68-3	
2-Hexanone	ND	ug/L	100	10		05/27/21 11:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		05/27/21 11:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		05/27/21 11:51	99-87-6	
Methylene Chloride	ND	ug/L	10.0	10		05/27/21 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		05/27/21 11:51	108-10-1	

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(913)599-5665

ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: FAG-AW4-W-16 **Lab ID: 60369924014** Collected: 05/19/21 16:57 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/27/21 11:51	1634-04-4	
Naphthalene	ND	ug/L	100	10		05/27/21 11:51	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	103-65-1	
Styrene	ND	ug/L	10.0	10		05/27/21 11:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/27/21 11:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/27/21 11:51	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		05/27/21 11:51	127-18-4	
Toluene	ND	ug/L	10.0	10		05/27/21 11:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/27/21 11:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		05/27/21 11:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/27/21 11:51	79-00-5	
Trichloroethene	**1150**	ug/L	10.0	10		05/27/21 11:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/27/21 11:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		05/27/21 11:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		05/27/21 11:51	108-67-8	
Vinyl chloride	**24.2**	ug/L	10.0	10		05/27/21 11:51	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		05/27/21 11:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	10		05/27/21 11:51	460-00-4	
Toluene-d8 (S)	83	%	80-120	10		05/27/21 11:51	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	80-120	10		05/27/21 11:51	2199-69-1	
Preservation pH	**1.0**		0.10	10		05/27/21 11:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**14.1**	mg/L	5.0	5		06/03/21 09:21	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: TB-01-051921 **Lab ID: 60369924015** Collected: 05/19/21 17:10 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 08:46	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 08:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 08:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 08:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 08:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 08:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 08:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 08:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 08:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 08:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 08:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 08:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 08:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 08:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 08:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 08:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 08:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 08:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 08:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 08:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 08:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 08:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 08:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/27/21 08:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 08:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 08:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 08:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 08:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 08:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 08:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 08:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 08:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 08:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 08:46	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 08:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 08:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 08:46	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 08:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 08:46	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: TB-01-051921 **Lab ID: 60369924015** Collected: 05/19/21 17:10 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 08:46	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 08:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 08:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 08:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 08:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 08:46	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 08:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 08:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 08:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 08:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/27/21 08:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 08:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 08:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 08:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 08:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 08:46	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/27/21 08:46	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		05/27/21 08:46	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	80-120	1		05/27/21 08:46	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 08:46		

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: TB-02-051921 **Lab ID: 60369924016** Collected: 05/19/21 17:10 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 09:01	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 09:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 09:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 09:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 09:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 09:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 09:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 09:01	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 09:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 09:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 09:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 09:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 09:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 09:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 09:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 09:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 09:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 09:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 09:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 09:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 09:01	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/27/21 09:01	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 09:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 09:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 09:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 09:01	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 09:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 09:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 09:01	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 09:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 09:01	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Sample: TB-02-051921 **Lab ID: 60369924016** Collected: 05/19/21 17:10 Received: 05/20/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 09:01	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 09:01	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 09:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 09:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 09:01	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 09:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 09:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 09:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/27/21 09:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 09:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 09:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 09:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 09:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 09:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/27/21 09:01	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		05/27/21 09:01	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		05/27/21 09:01	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 09:01		

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C. PACE PROJECT NUMBER 60370012

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: FAG-89-W-16 **Lab ID: 60370012001** Collected: 05/20/21 08:50 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/27/21 12:19	67-64-1	
Benzene	ND	ug/L	1.0	1		05/27/21 12:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/27/21 12:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/27/21 12:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/27/21 12:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/27/21 12:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/21 12:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/27/21 12:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/27/21 12:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/27/21 12:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/27/21 12:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/27/21 12:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/27/21 12:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/27/21 12:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 12:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/27/21 12:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/27/21 12:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/27/21 12:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/27/21 12:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/27/21 12:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 12:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 12:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/27/21 12:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/27/21 12:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/27/21 12:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/27/21 12:19	107-06-2	
1,2-Dichloroethene (Total)	**1.3**	ug/L	1.0	1		05/27/21 12:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/27/21 12:19	75-35-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		05/27/21 12:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/27/21 12:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 12:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/27/21 12:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/27/21 12:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/27/21 12:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 12:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/27/21 12:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/27/21 12:19	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/27/21 12:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/27/21 12:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/27/21 12:19	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/27/21 12:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/27/21 12:19	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: FAG-89-W-16 **Lab ID: 60370012001** Collected: 05/20/21 08:50 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/27/21 12:19	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/27/21 12:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	103-65-1	
Styrene	ND	ug/L	1.0	1		05/27/21 12:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 12:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/27/21 12:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/27/21 12:19	127-18-4	
Toluene	ND	ug/L	1.0	1		05/27/21 12:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 12:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/27/21 12:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/27/21 12:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/27/21 12:19	79-00-5	
Trichloroethene	**10.3**	ug/L	1.0	1		05/27/21 12:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/27/21 12:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/27/21 12:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/27/21 12:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/27/21 12:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/27/21 12:19	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/27/21 12:19	460-00-4	
Toluene-d8 (S)	96	%	80-120	1		05/27/21 12:19	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1		05/27/21 12:19	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/27/21 12:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**4.5**	mg/L	1.0	1		06/04/21 09:24	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: FAG-31-W-16 **Lab ID: 60370012002** Collected: 05/20/21 08:53 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/26/21 03:14	74-84-0	
Ethene	ND	ug/L	10.0	1		05/26/21 03:14	74-85-1	
Methane	ND	ug/L	10.0	1		05/26/21 03:14	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	100	10		05/27/21 12:34	67-64-1	
Benzene	ND	ug/L	10.0	10		05/27/21 12:34	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/27/21 12:34	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/27/21 12:34	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/27/21 12:34	75-27-4	
Bromoform	ND	ug/L	10.0	10		05/27/21 12:34	75-25-2	
Bromomethane	ND	ug/L	50.0	10		05/27/21 12:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	10		05/27/21 12:34	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	98-06-6	
Carbon disulfide	ND	ug/L	50.0	10		05/27/21 12:34	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		05/27/21 12:34	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/27/21 12:34	108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/27/21 12:34	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/27/21 12:34	67-66-3	
Chloromethane	ND	ug/L	10.0	10		05/27/21 12:34	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/27/21 12:34	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/27/21 12:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		05/27/21 12:34	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/27/21 12:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/27/21 12:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		05/27/21 12:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 12:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 12:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/27/21 12:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/27/21 12:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		05/27/21 12:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/27/21 12:34	107-06-2	
1,2-Dichloroethene (Total)	**252**	ug/L	10.0	10		05/27/21 12:34	540-59-0	
1,1-Dichloroethene	ND	ug/L	10.0	10		05/27/21 12:34	75-35-4	
cis-1,2-Dichloroethene	**248**	ug/L	10.0	10		05/27/21 12:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/27/21 12:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		05/27/21 12:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/27/21 12:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		05/27/21 12:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/27/21 12:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		05/27/21 12:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		05/27/21 12:34	10061-02-6	
Ethylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: FAG-31-W-16 **Lab ID: 60370012002** Collected: 05/20/21 08:53 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/27/21 12:34	87-68-3	
2-Hexanone	ND	ug/L	100	10		05/27/21 12:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		05/27/21 12:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		05/27/21 12:34	99-87-6	
Methylene Chloride	ND	ug/L	10.0	10		05/27/21 12:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		05/27/21 12:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/27/21 12:34	1634-04-4	
Naphthalene	ND	ug/L	100	10		05/27/21 12:34	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	103-65-1	
Styrene	ND	ug/L	10.0	10		05/27/21 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/27/21 12:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/27/21 12:34	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		05/27/21 12:34	127-18-4	
Toluene	ND	ug/L	10.0	10		05/27/21 12:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/27/21 12:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/27/21 12:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		05/27/21 12:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/27/21 12:34	79-00-5	
Trichloroethene	**733**	ug/L	10.0	10		05/27/21 12:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/27/21 12:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		05/27/21 12:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		05/27/21 12:34	108-67-8	
Vinyl chloride	ND	ug/L	10.0	10		05/27/21 12:34	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		05/27/21 12:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	10		05/27/21 12:34	460-00-4	
Toluene-d8 (S)	94	%	80-120	10		05/27/21 12:34	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	10		05/27/21 12:34	2199-69-1	
Preservation pH	**1.0**		0.10	10		05/27/21 12:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**4.5**	mg/L	1.0	1		06/03/21 18:50	16887-00-6	
Sulfate	**9.4**	mg/L	1.0	1		06/03/21 18:50	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.87**	mg/L	0.10	1		05/21/21 16:43		
Nitrogen, Nitrate	**0.87**	mg/L	0.10	1		05/21/21 16:43	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 16:43	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: FAG-22-W-16 **Lab ID: 60370012003** Collected: 05/20/21 10:50 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		05/26/21 03:53	74-84-0	
Ethene	ND	ug/L	10.0	1		05/26/21 03:53	74-85-1	
Methane	**17.1**	ug/L	10.0	1		05/26/21 03:53	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	100	10		05/28/21 02:06	67-64-1	
Benzene	ND	ug/L	10.0	10		05/28/21 02:06	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/28/21 02:06	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/28/21 02:06	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/28/21 02:06	75-27-4	
Bromoform	ND	ug/L	10.0	10		05/28/21 02:06	75-25-2	
Bromomethane	ND	ug/L	50.0	10		05/28/21 02:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	10		05/28/21 02:06	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	98-06-6	
Carbon disulfide	ND	ug/L	50.0	10		05/28/21 02:06	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		05/28/21 02:06	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/28/21 02:06	108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/28/21 02:06	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/28/21 02:06	67-66-3	
Chloromethane	ND	ug/L	10.0	10		05/28/21 02:06	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/28/21 02:06	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/28/21 02:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		05/28/21 02:06	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/28/21 02:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/28/21 02:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		05/28/21 02:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/28/21 02:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/28/21 02:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/28/21 02:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/28/21 02:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		05/28/21 02:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/28/21 02:06	107-06-2	
1,2-Dichloroethene (Total)	**168**	ug/L	10.0	10		05/28/21 02:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	10.0	10		05/28/21 02:06	75-35-4	
cis-1,2-Dichloroethene	**165**	ug/L	10.0	10		05/28/21 02:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/28/21 02:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		05/28/21 02:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/28/21 02:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		05/28/21 02:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/28/21 02:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		05/28/21 02:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		05/28/21 02:06	10061-02-6	
Ethylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: FAG-22-W-16 **Lab ID: 60370012003** Collected: 05/20/21 10:50 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/28/21 02:06	87-68-3	
2-Hexanone	ND	ug/L	100	10		05/28/21 02:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		05/28/21 02:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		05/28/21 02:06	99-87-6	
Methylene Chloride	ND	ug/L	10.0	10		05/28/21 02:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		05/28/21 02:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/28/21 02:06	1634-04-4	
Naphthalene	ND	ug/L	100	10		05/28/21 02:06	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	103-65-1	
Styrene	ND	ug/L	10.0	10		05/28/21 02:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/28/21 02:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/28/21 02:06	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		05/28/21 02:06	127-18-4	
Toluene	ND	ug/L	10.0	10		05/28/21 02:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/28/21 02:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/28/21 02:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		05/28/21 02:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/28/21 02:06	79-00-5	
Trichloroethene	**344**	ug/L	10.0	10		05/28/21 02:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/28/21 02:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		05/28/21 02:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		05/28/21 02:06	108-67-8	
Vinyl chloride	**18.3**	ug/L	10.0	10		05/28/21 02:06	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		05/28/21 02:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	10		05/28/21 02:06	460-00-4	
Toluene-d8 (S)	99	%	80-120	10		05/28/21 02:06	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	85	%	80-120	10		05/28/21 02:06	2199-69-1	
Preservation pH	**1.0**		0.10	10		05/28/21 02:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**21.5**	mg/L	5.0	5		06/03/21 12:24	16887-00-6	
Sulfate	**16.5**	mg/L	5.0	5		06/03/21 12:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**2.1**	mg/L	0.10	1		05/21/21 16:47		
Nitrogen, Nitrate	**2.1**	mg/L	0.10	1		05/21/21 16:47	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/21/21 16:47	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: RW-341A-W-16 **Lab ID: 60370012004** Collected: 05/20/21 11:20 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/28/21 02:21	67-64-1	
Benzene	ND	ug/L	1.0	1		05/28/21 02:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/28/21 02:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/28/21 02:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/28/21 02:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/28/21 02:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/28/21 02:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/28/21 02:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/28/21 02:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/28/21 02:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/28/21 02:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/28/21 02:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/28/21 02:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/28/21 02:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 02:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 02:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/28/21 02:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/28/21 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/28/21 02:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/28/21 02:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/28/21 02:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/28/21 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/28/21 02:21	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/28/21 02:21	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/28/21 02:21	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/28/21 02:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/28/21 02:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/28/21 02:21	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/28/21 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/28/21 02:21	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: RW-341A-W-16 **Lab ID: 60370012004** Collected: 05/20/21 11:20 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/28/21 02:21	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/28/21 02:21	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	103-65-1	
Styrene	ND	ug/L	1.0	1		05/28/21 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 02:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/28/21 02:21	127-18-4	
Toluene	ND	ug/L	1.0	1		05/28/21 02:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/28/21 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/28/21 02:21	79-00-5	
Trichloroethene	**1.0**	ug/L	1.0	1		05/28/21 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/28/21 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/28/21 02:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 02:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/28/21 02:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/28/21 02:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		05/28/21 02:21	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		05/28/21 02:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		05/28/21 02:21	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/28/21 02:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.7**	mg/L	1.0	1		06/03/21 19:26	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: SW-01-W-16 **Lab ID: 60370012005** Collected: 05/20/21 11:30 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/28/21 02:36	67-64-1	
Benzene	ND	ug/L	1.0	1		05/28/21 02:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/28/21 02:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/28/21 02:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/28/21 02:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/28/21 02:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/28/21 02:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/28/21 02:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/28/21 02:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/28/21 02:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/28/21 02:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/28/21 02:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/28/21 02:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/28/21 02:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 02:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 02:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/28/21 02:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/28/21 02:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/28/21 02:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/28/21 02:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/28/21 02:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/28/21 02:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/28/21 02:36	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/28/21 02:36	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/28/21 02:36	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/28/21 02:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/28/21 02:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/28/21 02:36	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/28/21 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/28/21 02:36	108-10-1	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: SW-01-W-16 **Lab ID: 60370012005** Collected: 05/20/21 11:30 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/28/21 02:36	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/28/21 02:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	103-65-1	
Styrene	ND	ug/L	1.0	1		05/28/21 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 02:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/28/21 02:36	127-18-4	
Toluene	ND	ug/L	1.0	1		05/28/21 02:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/28/21 02:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/28/21 02:36	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	1		05/28/21 02:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/28/21 02:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/28/21 02:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 02:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/28/21 02:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/28/21 02:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		05/28/21 02:36	460-00-4	
Toluene-d8 (S)	113	%	80-120	1		05/28/21 02:36	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		05/28/21 02:36	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/28/21 02:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**8.7**	mg/L	1.0	1		06/03/21 19:39	16887-00-6	

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: TB-01-052021 **Lab ID: 60370012006** Collected: 05/20/21 11:55 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/28/21 02:51	67-64-1	
Benzene	ND	ug/L	1.0	1		05/28/21 02:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/28/21 02:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/28/21 02:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/28/21 02:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/28/21 02:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/28/21 02:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/28/21 02:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/28/21 02:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/28/21 02:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/28/21 02:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/28/21 02:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/28/21 02:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/28/21 02:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 02:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 02:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/28/21 02:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/28/21 02:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/28/21 02:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/28/21 02:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/28/21 02:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/28/21 02:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/28/21 02:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/28/21 02:51	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 02:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 02:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 02:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/28/21 02:51	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/28/21 02:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/28/21 02:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/28/21 02:51	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/28/21 02:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/28/21 02:51	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Sample: TB-01-052021 **Lab ID: 60370012006** Collected: 05/20/21 11:55 Received: 05/21/21 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/28/21 02:51	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/28/21 02:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	103-65-1	
Styrene	ND	ug/L	1.0	1		05/28/21 02:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 02:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 02:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/28/21 02:51	127-18-4	
Toluene	ND	ug/L	1.0	1		05/28/21 02:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 02:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/28/21 02:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/28/21 02:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/28/21 02:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/28/21 02:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/28/21 02:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 02:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/28/21 02:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/28/21 02:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		05/28/21 02:51	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		05/28/21 02:51	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/28/21 02:51	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/28/21 02:51		

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D. PACE PROJECT NUMBER 60370145

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ANALYTICAL RESULTS

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Sample: FAG-85-W-16 **Lab ID: 60370145001** Collected: 05/21/21 14:10 Received: 05/22/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		06/01/21 22:45	74-84-0	
Ethene	ND	ug/L	10.0	1		06/01/21 22:45	74-85-1	
Methane	**1590**	ug/L	10.0	1		06/01/21 22:45	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	50.0	5		05/28/21 03:06	67-64-1	
Benzene	ND	ug/L	5.0	5		05/28/21 03:06	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		05/28/21 03:06	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		05/28/21 03:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		05/28/21 03:06	75-27-4	
Bromoform	ND	ug/L	5.0	5		05/28/21 03:06	75-25-2	
Bromomethane	ND	ug/L	25.0	5		05/28/21 03:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	5		05/28/21 03:06	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	98-06-6	
Carbon disulfide	ND	ug/L	25.0	5		05/28/21 03:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		05/28/21 03:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		05/28/21 03:06	108-90-7	
Chloroethane	ND	ug/L	5.0	5		05/28/21 03:06	75-00-3	
Chloroform	ND	ug/L	5.0	5		05/28/21 03:06	67-66-3	
Chloromethane	ND	ug/L	5.0	5		05/28/21 03:06	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		05/28/21 03:06	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		05/28/21 03:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		05/28/21 03:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		05/28/21 03:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		05/28/21 03:06	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		05/28/21 03:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		05/28/21 03:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		05/28/21 03:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		05/28/21 03:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		05/28/21 03:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		05/28/21 03:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		05/28/21 03:06	107-06-2	
1,2-Dichloroethene (Total)	**207**	ug/L	5.0	5		05/28/21 03:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		05/28/21 03:06	75-35-4	
cis-1,2-Dichloroethene	**204**	ug/L	5.0	5		05/28/21 03:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		05/28/21 03:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		05/28/21 03:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		05/28/21 03:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		05/28/21 03:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		05/28/21 03:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		05/28/21 03:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		05/28/21 03:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Sample: FAG-85-W-16 **Lab ID: 60370145001** Collected: 05/21/21 14:10 Received: 05/22/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		05/28/21 03:06	87-68-3	
2-Hexanone	ND	ug/L	50.0	5		05/28/21 03:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		05/28/21 03:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		05/28/21 03:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	5		05/28/21 03:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		05/28/21 03:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		05/28/21 03:06	1634-04-4	
Naphthalene	ND	ug/L	50.0	5		05/28/21 03:06	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	103-65-1	
Styrene	ND	ug/L	5.0	5		05/28/21 03:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		05/28/21 03:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		05/28/21 03:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		05/28/21 03:06	127-18-4	
Toluene	ND	ug/L	5.0	5		05/28/21 03:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		05/28/21 03:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		05/28/21 03:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		05/28/21 03:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		05/28/21 03:06	79-00-5	
Trichloroethene	**610**	ug/L	5.0	5		05/28/21 03:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		05/28/21 03:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		05/28/21 03:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		05/28/21 03:06	108-67-8	
Vinyl chloride	**37.2**	ug/L	5.0	5		05/28/21 03:06	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		05/28/21 03:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	5		05/28/21 03:06	460-00-4	
Toluene-d8 (S)	101	%	80-120	5		05/28/21 03:06	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	5		05/28/21 03:06	2199-69-1	
Preservation pH	**1.0**		0.10	5		05/28/21 03:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**13.1**	mg/L	5.0	5		06/04/21 12:41	16887-00-6	
Sulfate	**16.0**	mg/L	5.0	5		06/04/21 12:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.75**	mg/L	0.10	1		05/22/21 12:55		
Nitrogen, Nitrate	**0.65**	mg/L	0.10	1		05/22/21 12:55	14797-55-8	
Nitrogen, Nitrite	**0.10**	mg/L	0.10	1		05/22/21 12:55	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Sample: FAG-74-W-16 **Lab ID: 60370145002** Collected: 05/21/21 14:50 Received: 05/22/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
	Pace Analytical Services - Indianapolis							
Ethane	ND	ug/L	10.0	1		06/01/21 23:04	74-84-0	
Ethene	ND	ug/L	10.0	1		06/01/21 23:04	74-85-1	
Methane	**901**	ug/L	10.0	1		06/01/21 23:04	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/28/21 03:21	67-64-1	
Benzene	ND	ug/L	1.0	1		05/28/21 03:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/28/21 03:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/28/21 03:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/28/21 03:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/28/21 03:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/28/21 03:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/28/21 03:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/28/21 03:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/28/21 03:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/28/21 03:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/28/21 03:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/28/21 03:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/28/21 03:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 03:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 03:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/28/21 03:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/28/21 03:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/28/21 03:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/28/21 03:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/28/21 03:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/28/21 03:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/28/21 03:21	107-06-2	
1,2-Dichloroethene (Total)	**186**	ug/L	5.0	5		06/02/21 02:16	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/28/21 03:21	75-35-4	
cis-1,2-Dichloroethene	**179**	ug/L	5.0	5		06/02/21 02:16	156-59-2	
trans-1,2-Dichloroethene	**6.9**	ug/L	1.0	1		05/28/21 03:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 03:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/28/21 03:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 03:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/28/21 03:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 03:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 03:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	100-41-4	

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ANALYTICAL RESULTS

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Sample: FAG-74-W-16 **Lab ID: 60370145002** Collected: 05/21/21 14:50 Received: 05/22/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/28/21 03:21	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/28/21 03:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/28/21 03:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/28/21 03:21	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/28/21 03:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/28/21 03:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/28/21 03:21	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/28/21 03:21	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	103-65-1	
Styrene	ND	ug/L	1.0	1		05/28/21 03:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 03:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 03:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/28/21 03:21	127-18-4	
Toluene	ND	ug/L	1.0	1		05/28/21 03:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/28/21 03:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/28/21 03:21	79-00-5	
Trichloroethene	**201**	ug/L	5.0	5		06/02/21 02:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/28/21 03:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/28/21 03:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 03:21	108-67-8	
Vinyl chloride	**18.9**	ug/L	1.0	1		05/28/21 03:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/28/21 03:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		05/28/21 03:21	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		05/28/21 03:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		05/28/21 03:21	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/28/21 03:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**25.5**	mg/L	2.0	2		06/07/21 13:32	16887-00-6	
Sulfate	**18.2**	mg/L	1.0	1		06/04/21 12:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/22/21 12:56		
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/22/21 12:56	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/22/21 12:56	14797-65-0	

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ANALYTICAL RESULTS

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Sample: TB-01-052121 **Lab ID: 60370145003** Collected: 05/21/21 15:00 Received: 05/22/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		05/28/21 03:36	67-64-1	
Benzene	ND	ug/L	1.0	1		05/28/21 03:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/28/21 03:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/28/21 03:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/28/21 03:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/28/21 03:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/28/21 03:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/28/21 03:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		05/28/21 03:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/28/21 03:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/28/21 03:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/28/21 03:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/28/21 03:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/28/21 03:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 03:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/28/21 03:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/28/21 03:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/28/21 03:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/28/21 03:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/28/21 03:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/28/21 03:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/28/21 03:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/28/21 03:36	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		05/28/21 03:36	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/28/21 03:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 03:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/28/21 03:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 03:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/28/21 03:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/28/21 03:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/28/21 03:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 03:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/28/21 03:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/28/21 03:36	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		05/28/21 03:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/28/21 03:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/28/21 03:36	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/28/21 03:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/28/21 03:36	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Sample: TB-01-052121 **Lab ID: 60370145003** Collected: 05/21/21 15:00 Received: 05/22/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/28/21 03:36	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		05/28/21 03:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	103-65-1	
Styrene	ND	ug/L	1.0	1		05/28/21 03:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 03:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/28/21 03:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/28/21 03:36	127-18-4	
Toluene	ND	ug/L	1.0	1		05/28/21 03:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/28/21 03:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/28/21 03:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/28/21 03:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/28/21 03:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/28/21 03:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/28/21 03:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/28/21 03:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/28/21 03:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/28/21 03:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		05/28/21 03:36	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		05/28/21 03:36	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		05/28/21 03:36	2199-69-1	
Preservation pH	**1.0**		0.10	1		05/28/21 03:36		

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SECTION 3

ORGANIC DATA SUPPORT DOCUMENTATION

A. PACE PROJECT NUMBER 60369753

ORGANIC ANALYSIS SUPPORT DOCUMENTATION

Client Name:	Ramboll Environ	EnvStd Project Manager:	EER
Site/Project Name:	2021 Newton County Wells Site	Reviewed by:	CMR
Job Number/Task/Subtask:	20219471 /01 /0A	Approved by:	EER
Laboratory/Location:	Pace Kansas	Completion Date:	
SDG:	60369753	Validation Level:	2A
Sample Collection Dates:	5/18/21		

The following table indicates criteria that were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail **Note:** All items examined have been included in the Support Document unless otherwise noted.							Problems Identified						
	Check (√) if Yes or Footnote Letter for Comments Below													
Parameter/ Method	8260							8260						
Condition upon Receipt	√													
Sample Preservation	√													
Holding Times	√													
Blank Analysis Results	√													
Surrogates	√													
Laboratory Control Sample	√													
Matrix Spike/Matrix Spike Duplicate														
Laboratory Duplicate														
Field Duplicate														
Sample Preparation														
Detection Limit/Sensitivity														
Mass Tuning														
GC Instrument Performance – Resolution Checks and DDT/Endrin Breakdown														
Initial Calibrations														
Continuing Calibrations														
Internal Standard Performance														
Retention Time Shifts														
Quantitation of Results														
Qualitative Identification: Targets														
Qualitative Identification: TICs														
Multiple Dilutions/Analyses														
Analytical Sequence														
GC Column Agreement														
Manual Integration														
Percent Solids														
Extract Cleanup Documentation, Checks, and Calibrations														
Deliverable was Complete	√													
Others:														

Comments: Qualitative Identification, Quantitation of Results, and Manual Integrations are not included in the Support Documentation unless a problem was identified.

BLANK ANALYSIS RESULTS FOR ORGANIC PARAMETERS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/Kg-Soil, ug/L, Aq)	Qualification limit	
						5×	10×
V	Aq	MB	2904557	None present		0	0
V	Aq	TB	TB-01-051821	None present		0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0

1 - V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

2 - MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369753

QC Batch: 722483
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60369753001, 60369753002, 60369753003, 60369753004, 60369753005, 60369753006, 60369753007, 60369753008, 60369753009, 60369753010, 60369753011, 60369753012, 60369753013

METHOD BLANK: 2904557
Matrix: Water
Associated Lab Samples: 60369753001, 60369753002, 60369753003, 60369753004, 60369753005, 60369753006, 60369753007, 60369753008, 60369753009, 60369753010, 60369753011, 60369753012, 60369753013

All ND; no qual

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/25/21 15:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/25/21 15:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/25/21 15:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/25/21 15:08	
1,1-Dichloroethane	ug/L	ND	1.0	05/25/21 15:08	
1,1-Dichloroethene	ug/L	ND	1.0	05/25/21 15:08	
1,1-Dichloropropene	ug/L	ND	1.0	05/25/21 15:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/25/21 15:08	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/25/21 15:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/25/21 15:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/25/21 15:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/25/21 15:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/25/21 15:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/25/21 15:08	
1,2-Dichloroethane	ug/L	ND	1.0	05/25/21 15:08	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/25/21 15:08	
1,2-Dichloropropane	ug/L	ND	1.0	05/25/21 15:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/25/21 15:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/25/21 15:08	
1,3-Dichloropropane	ug/L	ND	1.0	05/25/21 15:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/25/21 15:08	
2,2-Dichloropropane	ug/L	ND	1.0	05/25/21 15:08	
2-Butanone (MEK)	ug/L	ND	10.0	05/25/21 15:08	
2-Chlorotoluene	ug/L	ND	1.0	05/25/21 15:08	
2-Hexanone	ug/L	ND	10.0	05/25/21 15:08	
4-Chlorotoluene	ug/L	ND	1.0	05/25/21 15:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/25/21 15:08	
Acetone	ug/L	ND	10.0	05/25/21 15:08	
Benzene	ug/L	ND	1.0	05/25/21 15:08	
Bromobenzene	ug/L	ND	1.0	05/25/21 15:08	
Bromochloromethane	ug/L	ND	1.0	05/25/21 15:08	
Bromodichloromethane	ug/L	ND	1.0	05/25/21 15:08	
Bromoform	ug/L	ND	1.0	05/25/21 15:08	
Bromomethane	ug/L	ND	5.0	05/25/21 15:08	
Carbon disulfide	ug/L	ND	5.0	05/25/21 15:08	
Carbon tetrachloride	ug/L	ND	1.0	05/25/21 15:08	
Chlorobenzene	ug/L	ND	1.0	05/25/21 15:08	
Chloroethane	ug/L	ND	1.0	05/25/21 15:08	
Chloroform	ug/L	ND	1.0	05/25/21 15:08	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369753

METHOD BLANK: 2904557 Matrix: Water

Associated Lab Samples: 60369753001, 60369753002, 60369753003, 60369753004, 60369753005, 60369753006, 60369753007, 60369753008, 60369753009, 60369753010, 60369753011, 60369753012, 60369753013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	05/25/21 15:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/25/21 15:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/25/21 15:08	
Dibromochloromethane	ug/L	ND	1.0	05/25/21 15:08	
Dibromomethane	ug/L	ND	1.0	05/25/21 15:08	
Dichlorodifluoromethane	ug/L	ND	1.0	05/25/21 15:08	
Ethylbenzene	ug/L	ND	1.0	05/25/21 15:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/25/21 15:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/25/21 15:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/25/21 15:08	
Methylene Chloride	ug/L	ND	1.0	05/25/21 15:08	
n-Butylbenzene	ug/L	ND	1.0	05/25/21 15:08	
n-Propylbenzene	ug/L	ND	1.0	05/25/21 15:08	
Naphthalene	ug/L	ND	10.0	05/25/21 15:08	
p-Isopropyltoluene	ug/L	ND	1.0	05/25/21 15:08	
sec-Butylbenzene	ug/L	ND	1.0	05/25/21 15:08	
Styrene	ug/L	ND	1.0	05/25/21 15:08	
tert-Butylbenzene	ug/L	ND	1.0	05/25/21 15:08	
Tetrachloroethene	ug/L	ND	1.0	05/25/21 15:08	
Toluene	ug/L	ND	1.0	05/25/21 15:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/25/21 15:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/25/21 15:08	
Trichloroethene	ug/L	ND	1.0	05/25/21 15:08	
Trichlorofluoromethane	ug/L	ND	1.0	05/25/21 15:08	
Vinyl chloride	ug/L	ND	1.0	05/25/21 15:08	
Xylene (Total)	ug/L	ND	3.0	05/25/21 15:08	
1,2-Dichlorobenzene-d4 (S)	%	94	80-120	05/25/21 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	05/25/21 15:08	
Toluene-d8 (S)	%	98	80-120	05/25/21 15:08	

LABORATORY CONTROL SAMPLE: 2904558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.5	103	80-120	
1,1,1-Trichloroethane	ug/L	20	21.2	106	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	75-125	
1,1,2-Trichloroethane	ug/L	20	21.6	108	80-120	
1,1-Dichloroethane	ug/L	20	19.6	98	75-125	
1,1-Dichloroethene	ug/L	20	19.8	99	80-120	
1,1-Dichloropropene	ug/L	20	20.3	102	80-125	
1,2,3-Trichlorobenzene	ug/L	20	21.6	108	75-125	
1,2,3-Trichloropropane	ug/L	20	20.6	103	80-125	
1,2,4-Trichlorobenzene	ug/L	20	20.9	105	75-120	

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REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369753

LABORATORY CONTROL SAMPLE: 2904558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.1	106	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.3	96	70-120	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	80-120	
1,2-Dichlorobenzene	ug/L	20	20.3	102	80-120	
1,2-Dichloroethane	ug/L	20	20.3	102	75-120	
1,2-Dichloroethene (Total)	ug/L	40	39.3	98	80-120	
1,2-Dichloropropane	ug/L	20	19.3	96	80-125	
1,3,5-Trimethylbenzene	ug/L	20	20.1	100	80-125	
1,3-Dichlorobenzene	ug/L	20	19.7	98	80-120	
1,3-Dichloropropane	ug/L	20	19.3	96	80-120	
1,4-Dichlorobenzene	ug/L	20	20.0	100	80-120	
2,2-Dichloropropane	ug/L	20	19.9	100	60-130	
2-Butanone (MEK)	ug/L	100	89.5	90	40-150	
2-Chlorotoluene	ug/L	20	20.7	103	80-120	
2-Hexanone	ug/L	100	95.1	95	45-150	
4-Chlorotoluene	ug/L	20	21.3	106	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.1	96	65-140	
Acetone	ug/L	100	83.8	84	20-175	
Benzene	ug/L	20	18.8	94	80-120	
Bromobenzene	ug/L	20	20.1	100	80-120	
Bromochloromethane	ug/L	20	20.8	104	80-125	
Bromodichloromethane	ug/L	20	20.9	105	80-125	
Bromoform	ug/L	20	21.5	107	60-135	
Bromomethane	ug/L	20	16.5	82	10-165	
Carbon disulfide	ug/L	20	20.0	100	75-135	
Carbon tetrachloride	ug/L	20	21.5	107	80-125	
Chlorobenzene	ug/L	20	20.8	104	80-120	
Chloroethane	ug/L	20	17.5	88	70-130	
Chloroform	ug/L	20	20.7	103	80-120	
Chloromethane	ug/L	20	19.9	99	35-155	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.1	95	80-125	
Dibromochloromethane	ug/L	20	21.6	108	70-120	
Dibromomethane	ug/L	20	20.6	103	80-120	
Dichlorodifluoromethane	ug/L	20	21.4	107	50-150	
Ethylbenzene	ug/L	20	20.5	103	80-120	
Hexachloro-1,3-butadiene	ug/L	20	22.0	110	65-135	
Isopropylbenzene (Cumene)	ug/L	20	21.4	107	80-125	
Methyl-tert-butyl ether	ug/L	20	19.5	98	65-130	
Methylene Chloride	ug/L	20	18.6	93	75-120	
n-Butylbenzene	ug/L	20	20.6	103	80-125	
n-Propylbenzene	ug/L	20	20.9	104	80-120	
Naphthalene	ug/L	20	21.1	106	70-120	
p-Isopropyltoluene	ug/L	20	21.1	106	80-135	
sec-Butylbenzene	ug/L	20	20.6	103	80-120	
Styrene	ug/L	20	20.1	100	80-120	
tert-Butylbenzene	ug/L	20	21.5	108	80-120	

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(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369753

LABORATORY CONTROL SAMPLE: 2904558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	22.3	111	80-120	
Toluene	ug/L	20	20.1	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.9	104	75-120	
Trichloroethene	ug/L	20	20.1	100	80-120	
Trichlorofluoromethane	ug/L	20	20.5	102	80-130	
Vinyl chloride	ug/L	20	18.6	93	65-130	
Xylene (Total)	ug/L	60	61.0	102	80-120	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60369753001	**FAG-33-W-16**	RSK 175 Modified	621858		
60369753002	**FAG-56-W-16**	RSK 175 Modified	621858		
60369753006	**FAG-62-W-16**	RSK 175 Modified	621858		
60369753009	**FAG-35-W-16**	RSK 175 Modified	621858		
60369753010	**FAG-47-W-16**	RSK 175 Modified	621858		
60369753001	**FAG-33-W-16**	EPA 5030B/8260	722483		
60369753002	**FAG-56-W-16**	EPA 5030B/8260	722483		
60369753003	**R1-MW8-W-16**	EPA 5030B/8260	722483		
60369753004	**R1-MW2-W-16**	EPA 5030B/8260	722483		
60369753005	**R1-MW5-W-16**	EPA 5030B/8260	722483		
60369753006	**FAG-62-W-16**	EPA 5030B/8260	722483		
60369753007	**FAG-43-W-16**	EPA 5030B/8260	722483		
60369753008	**R1-MW7-W-16**	EPA 5030B/8260	722483		
60369753009	**FAG-35-W-16**	EPA 5030B/8260	722483		
60369753010	**FAG-47-W-16**	EPA 5030B/8260	722483		
60369753011	**R1-MW6-W-16**	EPA 5030B/8260	722483		
60369753012	**FAG-46-W-16**	EPA 5030B/8260	722483		
60369753013	**TB-01-051821**	EPA 5030B/8260	722483		
60369753001	**FAG-33-W-16**	EPA 300.0	723380		
60369753002	**FAG-56-W-16**	EPA 300.0	723380		
60369753003	**R1-MW8-W-16**	EPA 300.0	723380		
60369753004	**R1-MW2-W-16**	EPA 300.0	723380		
60369753005	**R1-MW5-W-16**	EPA 300.0	723380		
60369753006	**FAG-62-W-16**	EPA 300.0	723380		
60369753007	**FAG-43-W-16**	EPA 300.0	723380		
60369753008	**R1-MW7-W-16**	EPA 300.0	723380		
60369753009	**FAG-35-W-16**	EPA 300.0	723380		
60369753010	**FAG-47-W-16**	EPA 300.0	723380		
60369753011	**R1-MW6-W-16**	EPA 300.0	723380		
60369753012	**FAG-46-W-16**	EPA 300.0	723380		
60369753001	**FAG-33-W-16**	EPA 353.2	721395		
60369753002	**FAG-56-W-16**	EPA 353.2	721395		
60369753006	**FAG-62-W-16**	EPA 353.2	721395		
60369753009	**FAG-35-W-16**	EPA 353.2	721395		
60369753010	**FAG-47-W-16**	EPA 353.2	721395		

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B. PACE PROJECT NUMBER 60369924

ORGANIC ANALYSIS SUPPORT DOCUMENTATION

Client Name:	Ramboll Environ	EnvStd Project Manager:	EER
Site/Project Name:	2021 Newton County Wells Site	Reviewed by:	CMR
Job Number/Task/Subtask:	20219471/01/0A	Approved by:	EER
Laboratory/Location:	Pace Kansas	Completion Date:	
SDG:	60369924	Validation Level:	2A
Sample Collection Dates:	5/19/21		

The following table indicates criteria that were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail **Note:** All items examined have been included in the Support Document unless otherwise noted.							Problems Identified						
	Check (√) if Yes or Footnote Letter for Comments Below													
Parameter/ Method	8260							8260						
Condition upon Receipt	√													
Sample Preservation	√													
Holding Times	√													
Blank Analysis Results	√													
Surrogates	√													
Laboratory Control Sample	√													
Matrix Spike/Matrix Spike Duplicate	√							√						
Laboratory Duplicate														
Field Duplicate	√													
Sample Preparation														
Detection Limit/Sensitivity														
Mass Tuning														
GC Instrument Performance – Resolution Checks and DDT/Endrin Breakdown														
Initial Calibrations														
Continuing Calibrations														
Internal Standard Performance														
Retention Time Shifts														
Quantitation of Results														
Qualitative Identification: Targets														
Qualitative Identification: TICs														
Multiple Dilutions/Analyses														
Analytical Sequence														
GC Column Agreement														
Manual Integration														
Percent Solids														
Extract Cleanup Documentation, Checks, and Calibrations														
Deliverable was Complete	√													
Others:														

Comments: Qualitative Identification, Quantitation of Results, and Manual Integrations are not included in the Support Documentation unless a problem was identified.

BLANK ANALYSIS RESULTS FOR ORGANIC PARAMETERS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/Kg-Soil, ug/L, Aq)	Qualification limit	
						5×	10×
V	Aq	MB	2905691	None present		0	0
V	Aq	MB	2908220	None present		0	0
V	Aq	TB	TB-01-051921	None present		0	0
V	Aq	TB	TB-02-051921	None present		0	0
V	Aq	EB	EB-01-051921	None present		0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0

1 - V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

2 - MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ◉ Aqueous ○ Non-aq.
Reporting Level: ○ MDL ◉ QL
Units: µg/L

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 20
If Either Result < 5 × Its QL, Dif. ≤: 1 **× Highest QL**

Sample ID: FAG-05-W-16 **Duplicate Sample ID:** LIST B-FD

Analyte	Sample Concentration	Qual	QL	MDL	Duplicate Concentration	Qual	QL	MDL	Difference	RPD	Flag
1,2-Dichloroethene (Total)	3.1		1	NA	3.3		1	NA	0.2	NA	
cis-1,2-Dichloroethene	3.1		1	NA	3.3		1	NA	0.2	NA	
Trichloroethene	23.9		1	NA	23.5		1	NA	NA	2%	
				NA				NA			
				NA				NA			
				NA				NA			
				NA				NA			
				NA				NA			
				NA				NA			
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				NA				NA			
				NA				NA			

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ◉ Aqueous ○ Non-aq.
Reporting Level: ○ MDL ◉ QL
Units: µg/L

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 20
If Either Result < 5 × Its QL, Dif. ≤: 1 **× Highest QL**

Sample ID: FAG-32-W-16 **Duplicate Sample ID:** LIST A-FD

Analyte	Sample Concentration	Qual	QL	MDL	Duplicate Concentration	Qual	QL	MDL	Difference	RPD	Flag
1,2-Dichloroethene (Total)	44.2		1	NA	39.7		1	NA	NA	11%	
cis-1,2-Dichloroethene	43.7		1	NA	39.3		1	NA	NA	11%	
Trichloroethene	183		1	NA	167		1	NA	NA	9%	
				NA				NA			
				NA				NA			
				NA				NA			
				NA				NA			
				NA				NA			
				NA				NA			
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				NA				NA			
				NA				NA			
				NA				NA			

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

QC Batch: 722822
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60369924001, 60369924002, 60369924003, 60369924005, 60369924006, 60369924007, 60369924008, 60369924009, 60369924010, 60369924011, 60369924012, 60369924013, 60369924014, 60369924015, 60369924016

METHOD BLANK: 2905691
Matrix: Water
Associated Lab Samples: 60369924001, 60369924002, 60369924003, 60369924005, 60369924006, 60369924007, 60369924008, 60369924009, 60369924010, 60369924011, 60369924012, 60369924013, 60369924014, 60369924015, 60369924016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1-Dichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1-Dichloroethene	ug/L	ND	1.0	05/27/21 07:50	
1,1-Dichloropropene	ug/L	ND	1.0	05/27/21 07:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/27/21 07:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/27/21 07:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichloropropane	ug/L	ND	1.0	05/27/21 07:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/27/21 07:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,3-Dichloropropane	ug/L	ND	1.0	05/27/21 07:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
2,2-Dichloropropane	ug/L	ND	1.0	05/27/21 07:50	
2-Butanone (MEK)	ug/L	ND	10.0	05/27/21 07:50	
2-Chlorotoluene	ug/L	ND	1.0	05/27/21 07:50	
2-Hexanone	ug/L	ND	10.0	05/27/21 07:50	
4-Chlorotoluene	ug/L	ND	1.0	05/27/21 07:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/27/21 07:50	
Acetone	ug/L	ND	10.0	05/27/21 07:50	
Benzene	ug/L	ND	1.0	05/27/21 07:50	
Bromobenzene	ug/L	ND	1.0	05/27/21 07:50	
Bromochloromethane	ug/L	ND	1.0	05/27/21 07:50	
Bromodichloromethane	ug/L	ND	1.0	05/27/21 07:50	
Bromoform	ug/L	ND	1.0	05/27/21 07:50	
Bromomethane	ug/L	ND	5.0	05/27/21 07:50	
Carbon disulfide	ug/L	ND	5.0	05/27/21 07:50	
Carbon tetrachloride	ug/L	ND	1.0	05/27/21 07:50	
Chlorobenzene	ug/L	ND	1.0	05/27/21 07:50	

All ND; no qual

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

METHOD BLANK: 2905691 Matrix: Water

Associated Lab Samples: 60369924001, 60369924002, 60369924003, 60369924005, 60369924006, 60369924007, 60369924008, 60369924009, 60369924010, 60369924011, 60369924012, 60369924013, 60369924014, 60369924015, 60369924016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	05/27/21 07:50	
Chloroform	ug/L	ND	1.0	05/27/21 07:50	
Chloromethane	ug/L	ND	1.0	05/27/21 07:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 07:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 07:50	
Dibromochloromethane	ug/L	ND	1.0	05/27/21 07:50	
Dibromomethane	ug/L	ND	1.0	05/27/21 07:50	
Dichlorodifluoromethane	ug/L	ND	1.0	05/27/21 07:50	
Ethylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/27/21 07:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/27/21 07:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/27/21 07:50	
Methylene Chloride	ug/L	ND	1.0	05/27/21 07:50	
n-Butylbenzene	ug/L	ND	1.0	05/27/21 07:50	
n-Propylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Naphthalene	ug/L	ND	10.0	05/27/21 07:50	
p-Isopropyltoluene	ug/L	ND	1.0	05/27/21 07:50	
sec-Butylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Styrene	ug/L	ND	1.0	05/27/21 07:50	
tert-Butylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Tetrachloroethene	ug/L	ND	1.0	05/27/21 07:50	
Toluene	ug/L	ND	1.0	05/27/21 07:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 07:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 07:50	
Trichloroethene	ug/L	ND	1.0	05/27/21 07:50	
Trichlorofluoromethane	ug/L	ND	1.0	05/27/21 07:50	
Vinyl chloride	ug/L	ND	1.0	05/27/21 07:50	
Xylene (Total)	ug/L	ND	3.0	05/27/21 07:50	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	05/27/21 07:50	
4-Bromofluorobenzene (S)	%	99	80-120	05/27/21 07:50	
Toluene-d8 (S)	%	99	80-120	05/27/21 07:50	

LABORATORY CONTROL SAMPLE: 2905692

Lab limits

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	80-120	
1,1,1-Trichloroethane	ug/L	20	21.6	108	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	75-125	
1,1,2-Trichloroethane	ug/L	20	19.6	98	80-120	
1,1-Dichloroethane	ug/L	20	21.5	107	75-125	
1,1-Dichloroethene	ug/L	20	20.7	104	80-120	
1,1-Dichloropropene	ug/L	20	20.6	103	80-125	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

LABORATORY CONTROL SAMPLE: 2905692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	21.0	105	75-125	
1,2,3-Trichloropropane	ug/L	20	21.6	108	80-125	
1,2,4-Trichlorobenzene	ug/L	20	19.2	96	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.9	104	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	98	70-120	
1,2-Dibromoethane (EDB)	ug/L	20	21.3	106	80-120	
1,2-Dichlorobenzene	ug/L	20	19.9	100	80-120	
1,2-Dichloroethane	ug/L	20	23.6	118	75-120	
1,2-Dichloroethene (Total)	ug/L	40	41.1	103	80-120	
1,2-Dichloropropane	ug/L	20	20.1	101	80-125	
1,3,5-Trimethylbenzene	ug/L	20	21.6	108	80-125	
1,3-Dichlorobenzene	ug/L	20	20.2	101	80-120	
1,3-Dichloropropane	ug/L	20	19.6	98	80-120	
1,4-Dichlorobenzene	ug/L	20	20.3	101	80-120	
2,2-Dichloropropane	ug/L	20	22.8	114	60-130	
2-Butanone (MEK)	ug/L	100	87.4	87	40-150	
2-Chlorotoluene	ug/L	20	20.4	102	80-120	
2-Hexanone	ug/L	100	90.7	91	45-150	
4-Chlorotoluene	ug/L	20	19.8	99	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	65-140	
Acetone	ug/L	100	94.5	95	20-175	
Benzene	ug/L	20	20.1	100	80-120	
Bromobenzene	ug/L	20	19.9	99	80-120	
Bromochloromethane	ug/L	20	22.5	112	80-125	
Bromodichloromethane	ug/L	20	22.3	112	80-125	
Bromoform	ug/L	20	21.2	106	60-135	
Bromomethane	ug/L	20	21.4	107	10-165	
Carbon disulfide	ug/L	20	20.0	100	75-135	
Carbon tetrachloride	ug/L	20	23.6	118	80-125	
Chlorobenzene	ug/L	20	20.1	100	80-120	
Chloroethane	ug/L	20	19.2	96	70-130	
Chloroform	ug/L	20	22.3	111	80-120	
Chloromethane	ug/L	20	23.6	118	35-155	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.3	106	80-125	
Dibromochloromethane	ug/L	20	22.2	111	70-120	
Dibromomethane	ug/L	20	21.1	105	80-120	
Dichlorodifluoromethane	ug/L	20	20.8	104	50-150	
Ethylbenzene	ug/L	20	20.3	102	80-120	
Hexachloro-1,3-butadiene	ug/L	20	21.8	109	65-135	
Isopropylbenzene (Cumene)	ug/L	20	21.1	106	80-125	
Methyl-tert-butyl ether	ug/L	20	21.0	105	65-130	
Methylene Chloride	ug/L	20	20.8	104	75-120	
n-Butylbenzene	ug/L	20	20.0	100	80-125	
n-Propylbenzene	ug/L	20	20.6	103	80-120	
Naphthalene	ug/L	20	20.2	101	70-120	
p-Isopropyltoluene	ug/L	20	22.0	110	80-135	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

LABORATORY CONTROL SAMPLE: 2905692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	20	20.7	103	80-120	
Styrene	ug/L	20	20.0	100	80-120	
tert-Butylbenzene	ug/L	20	20.5	103	80-120	
Tetrachloroethene	ug/L	20	20.8	104	80-120	
Toluene	ug/L	20	19.7	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.7	108	75-120	
Trichloroethene	ug/L	20	20.6	103	80-120	
Trichlorofluoromethane	ug/L	20	22.5	113	80-130	
Vinyl chloride	ug/L	20	17.7	88	65-130	
Xylene (Total)	ug/L	60	60.5	101	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905695 2905696

Lab limits

Parameter	Units	60369924009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	21.3	101	107	70-125	5	15	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	22.4	120	112	75-130	7	15	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.4	17.9	97	89	65-130	8	15	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.3	19.3	81	96	70-120	17	20	
1,1-Dichloroethane	ug/L	ND	20	20	20.8	21.6	104	108	61-130	4	15	
1,1-Dichloroethene	ug/L	ND	20	20	24.8	20.1	124	101	60-135	21	25	
1,1-Dichloropropene	ug/L	ND	20	20	20.5	21.1	103	106	55-145	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.6	18.3	78	91	55-120	16	25	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.3	21.5	106	107	60-135	1	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.8	16.9	79	84	50-125	7	25	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.5	19.0	93	95	60-135	3	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.0	20.4	95	102	55-125	7	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	21.5	101	107	65-125	6	20	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.0	18.4	90	92	65-120	3	20	
1,2-Dichloroethane	ug/L	ND	20	20	24.8	24.0	124	120	30-160	3	25	
1,2-Dichloroethene (Total)	ug/L	1.6	40	40	40.2	40.0	96	96	65-125	0	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.0	20.1	95	100	65-130	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.2	18.9	96	95	60-135	1	20	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.3	18.2	91	91	65-120	0	20	
1,3-Dichloropropane	ug/L	ND	20	20	17.0	19.6	85	98	70-120	14	20	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.1	18.2	90	91	60-125	0	20	
2,2-Dichloropropane	ug/L	ND	20	20	14.3	14.3	72	71	40-130	0	30	
2-Butanone (MEK)	ug/L	ND	100	100	59.4	68.8	59	69	30-130	15	25	
2-Chlorotoluene	ug/L	ND	20	20	18.7	18.4	93	92	65-125	1	20	
2-Hexanone	ug/L	ND	100	100	65.5	72.3	66	72	40-135	10	20	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905695 2905696

Parameter	Units	60369924009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorotoluene	ug/L	ND	20	20	17.6	18.9	88	95	65-125	7	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	102	106	102	106	60-135	4	20	
Acetone	ug/L	ND	100	100	51.2	46.3	51	46	10-150	10	25	
Benzene	ug/L	ND	20	20	18.8	19.8	94	99	20-155	5	25	
Bromobenzene	ug/L	ND	20	20	18.4	18.8	92	94	65-120	2	15	
Bromochloromethane	ug/L	ND	20	20	21.9	21.8	109	109	65-125	0	20	
Bromodichloromethane	ug/L	ND	20	20	22.9	22.0	115	110	70-130	4	15	
Bromoform	ug/L	ND	20	20	20.6	21.5	103	108	50-125	4	20	
Bromomethane	ug/L	ND	20	20	24.0	24.2	120	121	10-155	1	45	
Carbon disulfide	ug/L	ND	20	20	21.7	18.9	108	95	55-140	14	25	
Carbon tetrachloride	ug/L	ND	20	20	26.9	25.1	134	126	70-140	7	20	
Chlorobenzene	ug/L	ND	20	20	18.9	19.4	94	97	65-130	3	20	
Chloroethane	ug/L	ND	20	20	21.3	19.2	107	96	20-180	10	20	
Chloroform	ug/L	ND	20	20	22.7	22.1	114	111	70-125	3	20	
Chloromethane	ug/L	ND	20	20	27.7	26.0	138	130	20-160	6	30	
cis-1,2-Dichloroethene	ug/L	1.6	20	20	20.5	22.0	95	102	55-130	7	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.6	18.1	93	91	60-125	3	20	
Dibromochloromethane	ug/L	ND	20	20	21.3	22.3	107	111	65-120	4	20	
Dibromomethane	ug/L	ND	20	20	20.7	21.6	103	108	65-125	5	20	
Dichlorodifluoromethane	ug/L	ND	20	20	27.1	23.9	136	120	10-175	13	25	
Ethylbenzene	ug/L	ND	20	20	19.3	19.8	96	99	20-160	3	25	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.5	18.3	83	92	40-130	10	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.7	20.9	98	104	65-140	6	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.9	19.8	105	99	25-160	5	30	
Methylene Chloride	ug/L	ND	20	20	19.2	16.9	96	84	60-125	13	25	
n-Butylbenzene	ug/L	ND	20	20	16.5	17.3	83	87	50-140	5	25	
n-Propylbenzene	ug/L	ND	20	20	18.0	18.0	90	90	60-130	0	20	
Naphthalene	ug/L	ND	20	20	16.4	20.1	82	101	30-150	21	25	
p-Isopropyltoluene	ug/L	ND	20	20	19.2	19.4	96	97	50-150	1	20	
sec-Butylbenzene	ug/L	ND	20	20	18.5	18.5	93	92	60-140	0	20	
Styrene	ug/L	ND	20	20	18.4	19.6	92	98	40-145	6	30	
tert-Butylbenzene	ug/L	ND	20	20	18.6	18.6	93	93	60-130	0	20	
Tetrachloroethene	ug/L	ND	20	20	18.2	20.7	91	103	55-135	13	25	
Toluene	ug/L	ND	20	20	16.2	19.4	81	97	25-150	18	25	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.7	18.0	98	90	60-130	9	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.4	19.7	87	98	60-120	12	15	
Trichloroethene	ug/L	6.5	20	20	27.8	28.2	107	108	50-145	1	20	
Trichlorofluoromethane	ug/L	ND	20	20	28.5	24.7	142	124	50-155	14	20	
Vinyl chloride	ug/L	ND	20	20	21.8	19.3	109	96	40-155	12	25	
Xylene (Total)	ug/L	ND	60	60	57.2	59.3	95	99	15-160	4	30	
1,2-Dichlorobenzene-d4 (S)	%						101	101	80-120			
4-Bromofluorobenzene (S)	%						98	97	80-120			
Toluene-d8 (S)	%						85	101	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

QC Batch: 723385
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60369924004

METHOD BLANK: 2908220
Matrix: Water
Associated Lab Samples: 60369924004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/28/21 12:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/28/21 12:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/28/21 12:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/28/21 12:20	
1,1-Dichloroethane	ug/L	ND	1.0	05/28/21 12:20	
1,1-Dichloroethene	ug/L	ND	1.0	05/28/21 12:20	
1,1-Dichloropropene	ug/L	ND	1.0	05/28/21 12:20	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/28/21 12:20	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/28/21 12:20	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/28/21 12:20	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/28/21 12:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/28/21 12:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/28/21 12:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/28/21 12:20	
1,2-Dichloroethane	ug/L	ND	1.0	05/28/21 12:20	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/28/21 12:20	
1,2-Dichloropropane	ug/L	ND	1.0	05/28/21 12:20	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/28/21 12:20	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/28/21 12:20	
1,3-Dichloropropane	ug/L	ND	1.0	05/28/21 12:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/28/21 12:20	
2,2-Dichloropropane	ug/L	ND	1.0	05/28/21 12:20	
2-Butanone (MEK)	ug/L	ND	10.0	05/28/21 12:20	
2-Chlorotoluene	ug/L	ND	1.0	05/28/21 12:20	
2-Hexanone	ug/L	ND	10.0	05/28/21 12:20	
4-Chlorotoluene	ug/L	ND	1.0	05/28/21 12:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/28/21 12:20	
Acetone	ug/L	ND	10.0	05/28/21 12:20	
Benzene	ug/L	ND	1.0	05/28/21 12:20	
Bromobenzene	ug/L	ND	1.0	05/28/21 12:20	
Bromochloromethane	ug/L	ND	1.0	05/28/21 12:20	
Bromodichloromethane	ug/L	ND	1.0	05/28/21 12:20	
Bromoform	ug/L	ND	1.0	05/28/21 12:20	
Bromomethane	ug/L	ND	5.0	05/28/21 12:20	
Carbon disulfide	ug/L	ND	5.0	05/28/21 12:20	
Carbon tetrachloride	ug/L	ND	1.0	05/28/21 12:20	
Chlorobenzene	ug/L	ND	1.0	05/28/21 12:20	
Chloroethane	ug/L	ND	1.0	05/28/21 12:20	
Chloroform	ug/L	ND	1.0	05/28/21 12:20	
Chloromethane	ug/L	ND	1.0	05/28/21 12:20	

All ND; no qual

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

METHOD BLANK: 2908220 Matrix: Water
Associated Lab Samples: 60369924004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/28/21 12:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/28/21 12:20	
Dibromochloromethane	ug/L	ND	1.0	05/28/21 12:20	
Dibromomethane	ug/L	ND	1.0	05/28/21 12:20	
Dichlorodifluoromethane	ug/L	ND	1.0	05/28/21 12:20	
Ethylbenzene	ug/L	ND	1.0	05/28/21 12:20	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/28/21 12:20	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/28/21 12:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/28/21 12:20	
Methylene Chloride	ug/L	ND	1.0	05/28/21 12:20	
n-Butylbenzene	ug/L	ND	1.0	05/28/21 12:20	
n-Propylbenzene	ug/L	ND	1.0	05/28/21 12:20	
Naphthalene	ug/L	ND	10.0	05/28/21 12:20	
p-Isopropyltoluene	ug/L	ND	1.0	05/28/21 12:20	
sec-Butylbenzene	ug/L	ND	1.0	05/28/21 12:20	
Styrene	ug/L	ND	1.0	05/28/21 12:20	
tert-Butylbenzene	ug/L	ND	1.0	05/28/21 12:20	
Tetrachloroethene	ug/L	ND	1.0	05/28/21 12:20	
Toluene	ug/L	ND	1.0	05/28/21 12:20	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/28/21 12:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/28/21 12:20	
Trichloroethene	ug/L	ND	1.0	05/28/21 12:20	
Trichlorofluoromethane	ug/L	ND	1.0	05/28/21 12:20	
Vinyl chloride	ug/L	ND	1.0	05/28/21 12:20	
Xylene (Total)	ug/L	ND	3.0	05/28/21 12:20	
1,2-Dichlorobenzene-d4 (S)	%	98	80-120	05/28/21 12:20	
4-Bromofluorobenzene (S)	%	106	80-120	05/28/21 12:20	
Toluene-d8 (S)	%	102	80-120	05/28/21 12:20	

LABORATORY CONTROL SAMPLE: 2908221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.0	95	80-120	
1,1,1-Trichloroethane	ug/L	20	18.7	93	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	92	75-125	
1,1,2-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1-Dichloroethane	ug/L	20	20.6	103	75-125	
1,1-Dichloroethene	ug/L	20	19.2	96	80-120	
1,1-Dichloropropene	ug/L	20	19.5	97	80-125	
1,2,3-Trichlorobenzene	ug/L	20	16.7	84	75-125	
1,2,3-Trichloropropane	ug/L	20	19.3	97	80-125	
1,2,4-Trichlorobenzene	ug/L	20	17.3	86	75-120	
1,2,4-Trimethylbenzene	ug/L	20	19.0	95	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	21.0	105	70-120	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

LABORATORY CONTROL SAMPLE: 2908221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	17.6	88	80-120	
1,2-Dichlorobenzene	ug/L	20	19.7	98	80-120	
1,2-Dichloroethane	ug/L	20	18.6	93	75-120	
1,2-Dichloroethene (Total)	ug/L	40	39.7	99	80-120	
1,2-Dichloropropane	ug/L	20	19.7	99	80-125	
1,3,5-Trimethylbenzene	ug/L	20	20.0	100	80-125	
1,3-Dichlorobenzene	ug/L	20	19.3	96	80-120	
1,3-Dichloropropane	ug/L	20	18.6	93	80-120	
1,4-Dichlorobenzene	ug/L	20	20.4	102	80-120	
2,2-Dichloropropane	ug/L	20	18.0	90	60-130	
2-Butanone (MEK)	ug/L	100	69.8	70	40-150	
2-Chlorotoluene	ug/L	20	19.7	99	80-120	
2-Hexanone	ug/L	100	71.3	71	45-150	
4-Chlorotoluene	ug/L	20	18.9	94	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.0	86	65-140	
Acetone	ug/L	100	74.0	74	20-175	
Benzene	ug/L	20	19.6	98	80-120	
Bromobenzene	ug/L	20	19.4	97	80-120	
Bromochloromethane	ug/L	20	19.2	96	80-125	
Bromodichloromethane	ug/L	20	19.7	98	80-125	
Bromoform	ug/L	20	17.5	88	60-135	
Bromomethane	ug/L	20	20.9	104	10-165	
Carbon disulfide	ug/L	20	20.3	101	75-135	
Carbon tetrachloride	ug/L	20	19.7	99	80-125	
Chlorobenzene	ug/L	20	18.4	92	80-120	
Chloroethane	ug/L	20	19.6	98	70-130	
Chloroform	ug/L	20	21.0	105	80-120	
Chloromethane	ug/L	20	18.4	92	35-155	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.9	95	80-125	
Dibromochloromethane	ug/L	20	19.6	98	70-120	
Dibromomethane	ug/L	20	18.1	90	80-120	
Dichlorodifluoromethane	ug/L	20	19.1	96	50-150	
Ethylbenzene	ug/L	20	19.2	96	80-120	
Hexachloro-1,3-butadiene	ug/L	20	19.3	96	65-135	
Isopropylbenzene (Cumene)	ug/L	20	20.1	100	80-125	
Methyl-tert-butyl ether	ug/L	20	18.8	94	65-130	
Methylene Chloride	ug/L	20	20.1	101	75-120	
n-Butylbenzene	ug/L	20	18.9	95	80-125	
n-Propylbenzene	ug/L	20	19.0	95	80-120	
Naphthalene	ug/L	20	18.0	90	70-120	
p-Isopropyltoluene	ug/L	20	19.8	99	80-135	
sec-Butylbenzene	ug/L	20	19.8	99	80-120	
Styrene	ug/L	20	18.8	94	80-120	
tert-Butylbenzene	ug/L	20	19.2	96	80-120	
Tetrachloroethene	ug/L	20	18.4	92	80-120	
Toluene	ug/L	20	19.0	95	80-120	

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

LABORATORY CONTROL SAMPLE: 2908221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	19.6	98	80-120	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	75-120	
Trichloroethene	ug/L	20	20.0	100	80-120	
Trichlorofluoromethane	ug/L	20	18.4	92	80-130	
Vinyl chloride	ug/L	20	17.6	88	65-130	
Xylene (Total)	ug/L	60	59.7	100	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2908222 2908223

Parameter	Units	60369924004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.6	96	98	70-125	2	15	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.0	20.0	105	100	75-130	5	15	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.6	20.9	108	104	65-130	4	15	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.3	19.9	106	99	70-120	7	20	
1,1-Dichloroethane	ug/L	ND	20	20	19.8	20.4	99	102	61-130	3	15	
1,1-Dichloroethene	ug/L	1.5	20	20	22.9	23.7	107	111	60-135	3	25	
1,1-Dichloropropene	ug/L	ND	20	20	20.6	21.0	103	105	55-145	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	12.7	14.2	63	71	55-120	12	25	
1,2,3-Trichloropropane	ug/L	ND	20	20	24.6	22.7	123	114	60-135	8	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	12.9	13.5	64	67	50-125	5	25	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.0	18.1	85	90	60-135	6	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.1	21.9	120	110	55-125	9	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.1	19.1	100	96	65-125	5	20	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.9	19.3	95	97	65-120	2	20	
1,2-Dichloroethane	ug/L	ND	20	20	20.1	19.4	101	97	30-160	4	25	
1,2-Dichloroethene (Total)	ug/L	49.6	40	40	90.6	93.3	103	109	65-125	3	20	
1,2-Dichloropropane	ug/L	ND	20	20	20.4	18.9	102	95	65-130	8	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.1	17.9	90	90	60-135	1	20	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	65-120	6	20	
1,3-Dichloropropane	ug/L	ND	20	20	19.7	18.9	99	95	70-120	4	20	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	19.4	91	97	60-125	6	20	
2,2-Dichloropropane	ug/L	ND	20	20	19.7	18.9	99	94	40-130	4	30	
2-Butanone (MEK)	ug/L	ND	100	100	65.9	67.0	66	67	30-130	2	25	
2-Chlorotoluene	ug/L	ND	20	20	18.9	18.8	95	94	65-125	1	20	
2-Hexanone	ug/L	ND	100	100	72.3	66.6	72	67	40-135	8	20	
4-Chlorotoluene	ug/L	ND	20	20	18.8	18.8	94	94	65-125	0	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	107	99.4	107	99	60-135	7	20	
Acetone	ug/L	ND	100	100	44.2	42.6	41	40	10-150	4	25	
Benzene	ug/L	ND	20	20	20.8	20.0	103	99	20-155	4	25	
Bromobenzene	ug/L	ND	20	20	18.5	18.6	93	93	65-120	0	15	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60369924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2908222 2908223

Parameter	Units	60369924004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromochloromethane	ug/L	ND	20	20	20.1	20.2	101	101	65-125	1	20	
Bromodichloromethane	ug/L	ND	20	20	19.5	19.6	98	98	70-130	0	15	
Bromoform	ug/L	ND	20	20	20.8	20.2	104	101	50-125	3	20	
Bromomethane	ug/L	ND	20	20	18.8	17.9	94	89	10-155	5	45	
Carbon disulfide	ug/L	ND	20	20	21.2	20.3	106	101	55-140	4	25	
Carbon tetrachloride	ug/L	ND	20	20	21.2	21.3	106	107	70-140	1	20	
Chlorobenzene	ug/L	ND	20	20	19.1	19.3	96	96	65-130	1	20	
Chloroethane	ug/L	ND	20	20	21.3	20.3	107	102	20-180	5	20	
Chloroform	ug/L	ND	20	20	21.8	21.1	109	105	70-125	3	20	
Chloromethane	ug/L	ND	20	20	17.7	20.0	89	100	20-160	12	30	
cis-1,2-Dichloroethene	ug/L	45.8	20	20	66.6	68.2	104	112	55-130	2	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.1	19.0	95	95	60-125	0	20	
Dibromochloromethane	ug/L	ND	20	20	21.1	20.6	105	103	65-120	2	20	
Dibromomethane	ug/L	ND	20	20	19.5	19.4	98	97	65-125	1	20	
Dichlorodifluoromethane	ug/L	ND	20	20	22.7	23.2	114	116	10-175	2	25	
Ethylbenzene	ug/L	ND	20	20	20.0	19.2	100	96	20-160	4	25	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	5.9	6.5	30	33	40-130	9	30	M1 1
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.0	18.9	95	94	65-140	1	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.5	19.2	108	96	25-160	11	30	
Methylene Chloride	ug/L	ND	20	20	19.8	18.8	99	94	60-125	5	25	
n-Butylbenzene	ug/L	ND	20	20	12.3	13.0	62	65	50-140	5	25	
n-Propylbenzene	ug/L	ND	20	20	16.6	17.5	83	87	60-130	5	20	
Naphthalene	ug/L	ND	20	20	17.5	18.2	88	91	30-150	4	25	
p-Isopropyltoluene	ug/L	ND	20	20	15.0	15.5	75	77	50-150	3	20	
sec-Butylbenzene	ug/L	ND	20	20	14.8	15.4	74	77	60-140	4	20	
Styrene	ug/L	ND	20	20	19.7	18.9	98	95	40-145	4	30	
tert-Butylbenzene	ug/L	ND	20	20	16.6	17.4	83	87	60-130	4	20	
Tetrachloroethene	ug/L	ND	20	20	19.4	18.9	97	94	55-135	3	25	
Toluene	ug/L	ND	20	20	20.5	19.5	102	97	25-150	5	25	
trans-1,2-Dichloroethene	ug/L	3.8	20	20	24.1	25.1	101	106	60-130	4	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	19.1	104	95	60-120	9	15	
Trichloroethene	ug/L	18.8	20	20	40.8	40.4	110	108	50-145	1	20	
Trichlorofluoromethane	ug/L	ND	20	20	21.4	21.5	107	107	50-155	0	20	
Vinyl chloride	ug/L	4.2	20	20	24.3	23.6	100	97	40-155	3	25	
Xylene (Total)	ug/L	ND	60	60	59.4	58.2	99	97	15-160	2	30	
1,2-Dichlorobenzene-d4 (S)	%						101	104	80-120			
4-Bromofluorobenzene (S)	%						99	103	80-120			
Toluene-d8 (S)	%						103	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

1) "UJ" in sample -004

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60369924001	**FAG-34-W-16**	RSK 175 Modified	622456		
60369924004	**FAG-73-W-16**	RSK 175 Modified	622456		
60369924008	**FAG-50-W-16**	RSK 175 Modified	622456		
60369924010	**FAG-32-W-16**	RSK 175 Modified	622456		
60369924011	**LIST A FD**	RSK 175 Modified	622456		
60369924012	**FAG-36-W-16**	RSK 175 Modified	622456		
60369924001	**FAG-34-W-16**	EPA 5030B/8260	722822		
60369924002	**FAG-05-W-16**	EPA 5030B/8260	722822		
60369924003	**LIST B FD**	EPA 5030B/8260	722822		
60369924004	**FAG-73-W-16**	EPA 5030B/8260	723385		
60369924005	**R1-MW1-W-16**	EPA 5030B/8260	722822		
60369924006	**FAG-11-W-16**	EPA 5030B/8260	722822		
60369924007	**R1-MW9-W-16**	EPA 5030B/8260	722822		
60369924008	**FAG-50-W-16**	EPA 5030B/8260	722822		
60369924009	**FAG-88-W-16**	EPA 5030B/8260	722822		
60369924010	**FAG-32-W-16**	EPA 5030B/8260	722822		
60369924011	**LIST A FD**	EPA 5030B/8260	722822		
60369924012	**FAG-36-W-16**	EPA 5030B/8260	722822		
60369924013	**EB-01-051921**	EPA 5030B/8260	722822		
60369924014	**FAG-AW4-W-16**	EPA 5030B/8260	722822		
60369924015	**TB-01-051921**	EPA 5030B/8260	722822		
60369924016	**TB-02-051921**	EPA 5030B/8260	722822		
60369924001	**FAG-34-W-16**	EPA 300.0	723922		
60369924002	**FAG-05-W-16**	EPA 300.0	723922		
60369924003	**LIST B FD**	EPA 300.0	723922		
60369924004	**FAG-73-W-16**	EPA 300.0	723922		
60369924005	**R1-MW1-W-16**	EPA 300.0	723922		
60369924006	**FAG-11-W-16**	EPA 300.0	723922		
60369924007	**R1-MW9-W-16**	EPA 300.0	723922		
60369924008	**FAG-50-W-16**	EPA 300.0	723922		
60369924009	**FAG-88-W-16**	EPA 300.0	724048		
60369924010	**FAG-32-W-16**	EPA 300.0	723922		
60369924011	**LIST A FD**	EPA 300.0	723922		
60369924012	**FAG-36-W-16**	EPA 300.0	723922		
60369924014	**FAG-AW4-W-16**	EPA 300.0	724048		
60369924001	**FAG-34-W-16**	EPA 353.2	721672		
60369924004	**FAG-73-W-16**	EPA 353.2	721672		
60369924008	**FAG-50-W-16**	EPA 353.2	721693		
60369924010	**FAG-32-W-16**	EPA 353.2	721693		
60369924011	**LIST A FD**	EPA 353.2	721693		
60369924012	**FAG-36-W-16**	EPA 353.2	721693		

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C. PACE PROJECT NUMBER 60370012

ORGANIC ANALYSIS SUPPORT DOCUMENTATION

Client Name:	Ramboll Environ	EnvStd Project Manager:	EER
Site/Project Name:	2021 Newton County Wells Site	Reviewed by:	CMR
Job Number/Task/Subtask:	20219471/01/0A	Approved by:	EER
Laboratory/Location:	Pace Kansas	Completion Date:	
SDG:	60370012	Validation Level:	2A
Sample Collection Dates:	5/20/21		

The following table indicates criteria that were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail **Note:** All items examined have been included in the Support Document unless otherwise noted.							Problems Identified						
	Check (√) if Yes or Footnote Letter for Comments Below													
Parameter/ Method	8260							8260						
Condition upon Receipt	√													
Sample Preservation	√													
Holding Times	√													
Blank Analysis Results	√													
Surrogates	√													
Laboratory Control Sample	√													
Matrix Spike/Matrix Spike Duplicate														
Laboratory Duplicate														
Field Duplicate														
Sample Preparation														
Detection Limit/Sensitivity														
Mass Tuning														
GC Instrument Performance – Resolution Checks and DDT/Endrin Breakdown														
Initial Calibrations														
Continuing Calibrations														
Internal Standard Performance														
Retention Time Shifts														
Quantitation of Results														
Qualitative Identification: Targets														
Qualitative Identification: TICs														
Multiple Dilutions/Analyses														
Analytical Sequence														
GC Column Agreement														
Manual Integration														
Percent Solids														
Extract Cleanup Documentation, Checks, and Calibrations														
Deliverable was Complete	√													
Others:														

Comments: Qualitative Identification, Quantitation of Results, and Manual Integrations are not included in the Support Documentation unless a problem was identified.

BLANK ANALYSIS RESULTS FOR ORGANIC PARAMETERS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/Kg-Soil, ug/L, Aq)	Qualification limit	
						5×	10×
V	Aq	MB	2905691	None present		0	0
V	Aq	MB	2907379	None present		0	0
V	Aq	TB	TB-01-052021	None present		0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0

1 - V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

2 - MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

QC Batch: 722822
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60370012001, 60370012002

METHOD BLANK: 2905691
Matrix: Water
Associated Lab Samples: 60370012001, 60370012002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1-Dichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,1-Dichloroethene	ug/L	ND	1.0	05/27/21 07:50	
1,1-Dichloropropene	ug/L	ND	1.0	05/27/21 07:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/27/21 07:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/27/21 07:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichloroethane	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/27/21 07:50	
1,2-Dichloropropane	ug/L	ND	1.0	05/27/21 07:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/27/21 07:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
1,3-Dichloropropane	ug/L	ND	1.0	05/27/21 07:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
2,2-Dichloropropane	ug/L	ND	1.0	05/27/21 07:50	
2-Butanone (MEK)	ug/L	ND	10.0	05/27/21 07:50	
2-Chlorotoluene	ug/L	ND	1.0	05/27/21 07:50	
2-Hexanone	ug/L	ND	10.0	05/27/21 07:50	
4-Chlorotoluene	ug/L	ND	1.0	05/27/21 07:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/27/21 07:50	
Acetone	ug/L	ND	10.0	05/27/21 07:50	
Benzene	ug/L	ND	1.0	05/27/21 07:50	
Bromobenzene	ug/L	ND	1.0	05/27/21 07:50	
Bromochloromethane	ug/L	ND	1.0	05/27/21 07:50	
Bromodichloromethane	ug/L	ND	1.0	05/27/21 07:50	
Bromoform	ug/L	ND	1.0	05/27/21 07:50	
Bromomethane	ug/L	ND	5.0	05/27/21 07:50	
Carbon disulfide	ug/L	ND	5.0	05/27/21 07:50	
Carbon tetrachloride	ug/L	ND	1.0	05/27/21 07:50	
Chlorobenzene	ug/L	ND	1.0	05/27/21 07:50	
Chloroethane	ug/L	ND	1.0	05/27/21 07:50	
Chloroform	ug/L	ND	1.0	05/27/21 07:50	
Chloromethane	ug/L	ND	1.0	05/27/21 07:50	

all ND; no qual

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

METHOD BLANK: 2905691 Matrix: Water
Associated Lab Samples: 60370012001, 60370012002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 07:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 07:50	
Dibromochloromethane	ug/L	ND	1.0	05/27/21 07:50	
Dibromomethane	ug/L	ND	1.0	05/27/21 07:50	
Dichlorodifluoromethane	ug/L	ND	1.0	05/27/21 07:50	
Ethylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/27/21 07:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/27/21 07:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/27/21 07:50	
Methylene Chloride	ug/L	ND	1.0	05/27/21 07:50	
n-Butylbenzene	ug/L	ND	1.0	05/27/21 07:50	
n-Propylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Naphthalene	ug/L	ND	10.0	05/27/21 07:50	
p-Isopropyltoluene	ug/L	ND	1.0	05/27/21 07:50	
sec-Butylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Styrene	ug/L	ND	1.0	05/27/21 07:50	
tert-Butylbenzene	ug/L	ND	1.0	05/27/21 07:50	
Tetrachloroethene	ug/L	ND	1.0	05/27/21 07:50	
Toluene	ug/L	ND	1.0	05/27/21 07:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 07:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 07:50	
Trichloroethene	ug/L	ND	1.0	05/27/21 07:50	
Trichlorofluoromethane	ug/L	ND	1.0	05/27/21 07:50	
Vinyl chloride	ug/L	ND	1.0	05/27/21 07:50	
Xylene (Total)	ug/L	ND	3.0	05/27/21 07:50	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	05/27/21 07:50	
4-Bromofluorobenzene (S)	%	99	80-120	05/27/21 07:50	
Toluene-d8 (S)	%	99	80-120	05/27/21 07:50	

LABORATORY CONTROL SAMPLE: 2905692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	80-120	
1,1,1-Trichloroethane	ug/L	20	21.6	108	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	75-125	
1,1,2-Trichloroethane	ug/L	20	19.6	98	80-120	
1,1-Dichloroethane	ug/L	20	21.5	107	75-125	
1,1-Dichloroethene	ug/L	20	20.7	104	80-120	
1,1-Dichloropropene	ug/L	20	20.6	103	80-125	
1,2,3-Trichlorobenzene	ug/L	20	21.0	105	75-125	
1,2,3-Trichloropropane	ug/L	20	21.6	108	80-125	
1,2,4-Trichlorobenzene	ug/L	20	19.2	96	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.9	104	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	98	70-120	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

LABORATORY CONTROL SAMPLE: 2905692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	21.3	106	80-120	
1,2-Dichlorobenzene	ug/L	20	19.9	100	80-120	
1,2-Dichloroethane	ug/L	20	23.6	118	75-120	
1,2-Dichloroethene (Total)	ug/L	40	41.1	103	80-120	
1,2-Dichloropropane	ug/L	20	20.1	101	80-125	
1,3,5-Trimethylbenzene	ug/L	20	21.6	108	80-125	
1,3-Dichlorobenzene	ug/L	20	20.2	101	80-120	
1,3-Dichloropropane	ug/L	20	19.6	98	80-120	
1,4-Dichlorobenzene	ug/L	20	20.3	101	80-120	
2,2-Dichloropropane	ug/L	20	22.8	114	60-130	
2-Butanone (MEK)	ug/L	100	87.4	87	40-150	
2-Chlorotoluene	ug/L	20	20.4	102	80-120	
2-Hexanone	ug/L	100	90.7	91	45-150	
4-Chlorotoluene	ug/L	20	19.8	99	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	65-140	
Acetone	ug/L	100	94.5	95	20-175	
Benzene	ug/L	20	20.1	100	80-120	
Bromobenzene	ug/L	20	19.9	99	80-120	
Bromochloromethane	ug/L	20	22.5	112	80-125	
Bromodichloromethane	ug/L	20	22.3	112	80-125	
Bromoform	ug/L	20	21.2	106	60-135	
Bromomethane	ug/L	20	21.4	107	10-165	
Carbon disulfide	ug/L	20	20.0	100	75-135	
Carbon tetrachloride	ug/L	20	23.6	118	80-125	
Chlorobenzene	ug/L	20	20.1	100	80-120	
Chloroethane	ug/L	20	19.2	96	70-130	
Chloroform	ug/L	20	22.3	111	80-120	
Chloromethane	ug/L	20	23.6	118	35-155	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.3	106	80-125	
Dibromochloromethane	ug/L	20	22.2	111	70-120	
Dibromomethane	ug/L	20	21.1	105	80-120	
Dichlorodifluoromethane	ug/L	20	20.8	104	50-150	
Ethylbenzene	ug/L	20	20.3	102	80-120	
Hexachloro-1,3-butadiene	ug/L	20	21.8	109	65-135	
Isopropylbenzene (Cumene)	ug/L	20	21.1	106	80-125	
Methyl-tert-butyl ether	ug/L	20	21.0	105	65-130	
Methylene Chloride	ug/L	20	20.8	104	75-120	
n-Butylbenzene	ug/L	20	20.0	100	80-125	
n-Propylbenzene	ug/L	20	20.6	103	80-120	
Naphthalene	ug/L	20	20.2	101	70-120	
p-Isopropyltoluene	ug/L	20	22.0	110	80-135	
sec-Butylbenzene	ug/L	20	20.7	103	80-120	
Styrene	ug/L	20	20.0	100	80-120	
tert-Butylbenzene	ug/L	20	20.5	103	80-120	
Tetrachloroethene	ug/L	20	20.8	104	80-120	
Toluene	ug/L	20	19.7	99	80-120	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

LABORATORY CONTROL SAMPLE: 2905692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	20.7	103	80-120	
trans-1,3-Dichloropropene	ug/L	20	21.7	108	75-120	
Trichloroethene	ug/L	20	20.6	103	80-120	
Trichlorofluoromethane	ug/L	20	22.5	113	80-130	
Vinyl chloride	ug/L	20	17.7	88	65-130	
Xylene (Total)	ug/L	60	60.5	101	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905695 2905696

NA non-SDG sample

Parameter	Units	60369924009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	21.3	101	107	70-125	5	15	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.0	22.4	120	112	75-130	7	15	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.4	17.9	97	89	65-130	8	15	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.3	19.3	81	96	70-120	17	20	
1,1-Dichloroethane	ug/L	ND	20	20	20.8	21.6	104	108	61-130	4	15	
1,1-Dichloroethene	ug/L	ND	20	20	24.8	20.1	124	101	60-135	21	25	
1,1-Dichloropropene	ug/L	ND	20	20	20.5	21.1	103	106	55-145	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.6	18.3	78	91	55-120	16	25	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.3	21.5	106	107	60-135	1	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.8	16.9	79	84	50-125	7	25	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.5	19.0	93	95	60-135	3	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.0	20.4	95	102	55-125	7	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.2	21.5	101	107	65-125	6	20	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.0	18.4	90	92	65-120	3	20	
1,2-Dichloroethane	ug/L	ND	20	20	24.8	24.0	124	120	30-160	3	25	
1,2-Dichloroethene (Total)	ug/L	1.6	40	40	40.2	40.0	96	96	65-125	0	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.0	20.1	95	100	65-130	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.2	18.9	96	95	60-135	1	20	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.3	18.2	91	91	65-120	0	20	
1,3-Dichloropropane	ug/L	ND	20	20	17.0	19.6	85	98	70-120	14	20	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.1	18.2	90	91	60-125	0	20	
2,2-Dichloropropane	ug/L	ND	20	20	14.3	14.3	72	71	40-130	0	30	
2-Butanone (MEK)	ug/L	ND	100	100	59.4	68.8	59	69	30-130	15	25	
2-Chlorotoluene	ug/L	ND	20	20	18.7	18.4	93	92	65-125	1	20	
2-Hexanone	ug/L	ND	100	100	65.5	72.3	66	72	40-135	10	20	
4-Chlorotoluene	ug/L	ND	20	20	17.6	18.9	88	95	65-125	7	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	102	106	102	106	60-135	4	20	
Acetone	ug/L	ND	100	100	51.2	46.3	51	46	10-150	10	25	
Benzene	ug/L	ND	20	20	18.8	19.8	94	99	20-155	5	25	
Bromobenzene	ug/L	ND	20	20	18.4	18.8	92	94	65-120	2	15	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905695 2905696

Parameter	Units	60369924009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromochloromethane	ug/L	ND	20	20	21.9	21.8	109	109	65-125	0	20	
Bromodichloromethane	ug/L	ND	20	20	22.9	22.0	115	110	70-130	4	15	
Bromoform	ug/L	ND	20	20	20.6	21.5	103	108	50-125	4	20	
Bromomethane	ug/L	ND	20	20	24.0	24.2	120	121	10-155	1	45	
Carbon disulfide	ug/L	ND	20	20	21.7	18.9	108	95	55-140	14	25	
Carbon tetrachloride	ug/L	ND	20	20	26.9	25.1	134	126	70-140	7	20	
Chlorobenzene	ug/L	ND	20	20	18.9	19.4	94	97	65-130	3	20	
Chloroethane	ug/L	ND	20	20	21.3	19.2	107	96	20-180	10	20	
Chloroform	ug/L	ND	20	20	22.7	22.1	114	111	70-125	3	20	
Chloromethane	ug/L	ND	20	20	27.7	26.0	138	130	20-160	6	30	
cis-1,2-Dichloroethene	ug/L	1.6	20	20	20.5	22.0	95	102	55-130	7	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.6	18.1	93	91	60-125	3	20	
Dibromochloromethane	ug/L	ND	20	20	21.3	22.3	107	111	65-120	4	20	
Dibromomethane	ug/L	ND	20	20	20.7	21.6	103	108	65-125	5	20	
Dichlorodifluoromethane	ug/L	ND	20	20	27.1	23.9	136	120	10-175	13	25	
Ethylbenzene	ug/L	ND	20	20	19.3	19.8	96	99	20-160	3	25	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.5	18.3	83	92	40-130	10	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.7	20.9	98	104	65-140	6	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.9	19.8	105	99	25-160	5	30	
Methylene Chloride	ug/L	ND	20	20	19.2	16.9	96	84	60-125	13	25	
n-Butylbenzene	ug/L	ND	20	20	16.5	17.3	83	87	50-140	5	25	
n-Propylbenzene	ug/L	ND	20	20	18.0	18.0	90	90	60-130	0	20	
Naphthalene	ug/L	ND	20	20	16.4	20.1	82	101	30-150	21	25	
p-Isopropyltoluene	ug/L	ND	20	20	19.2	19.4	96	97	50-150	1	20	
sec-Butylbenzene	ug/L	ND	20	20	18.5	18.5	93	92	60-140	0	20	
Styrene	ug/L	ND	20	20	18.4	19.6	92	98	40-145	6	30	
tert-Butylbenzene	ug/L	ND	20	20	18.6	18.6	93	93	60-130	0	20	
Tetrachloroethene	ug/L	ND	20	20	18.2	20.7	91	103	55-135	13	25	
Toluene	ug/L	ND	20	20	16.2	19.4	81	97	25-150	18	25	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.7	18.0	98	90	60-130	9	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.4	19.7	87	98	60-120	12	15	
Trichloroethene	ug/L	6.5	20	20	27.8	28.2	107	108	50-145	1	20	
Trichlorofluoromethane	ug/L	ND	20	20	28.5	24.7	142	124	50-155	14	20	
Vinyl chloride	ug/L	ND	20	20	21.8	19.3	109	96	40-155	12	25	
Xylene (Total)	ug/L	ND	60	60	57.2	59.3	95	99	15-160	4	30	
1,2-Dichlorobenzene-d4 (S)	%						101	101	80-120			
4-Bromofluorobenzene (S)	%						98	97	80-120			
Toluene-d8 (S)	%						85	101	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

QC Batch: 723190
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60370012003, 60370012004, 60370012005, 60370012006

METHOD BLANK: 2907379
Matrix: Water
Associated Lab Samples: 60370012003, 60370012004, 60370012005, 60370012006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1-Dichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1-Dichloroethene	ug/L	ND	1.0	05/27/21 22:34	
1,1-Dichloropropene	ug/L	ND	1.0	05/27/21 22:34	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/27/21 22:34	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/27/21 22:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichloropropane	ug/L	ND	1.0	05/27/21 22:34	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/27/21 22:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,3-Dichloropropane	ug/L	ND	1.0	05/27/21 22:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
2,2-Dichloropropane	ug/L	ND	1.0	05/27/21 22:34	
2-Butanone (MEK)	ug/L	ND	10.0	05/27/21 22:34	
2-Chlorotoluene	ug/L	ND	1.0	05/27/21 22:34	
2-Hexanone	ug/L	ND	10.0	05/27/21 22:34	
4-Chlorotoluene	ug/L	ND	1.0	05/27/21 22:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/27/21 22:34	
Acetone	ug/L	ND	10.0	05/27/21 22:34	
Benzene	ug/L	ND	1.0	05/27/21 22:34	
Bromobenzene	ug/L	ND	1.0	05/27/21 22:34	
Bromochloromethane	ug/L	ND	1.0	05/27/21 22:34	
Bromodichloromethane	ug/L	ND	1.0	05/27/21 22:34	
Bromoform	ug/L	ND	1.0	05/27/21 22:34	
Bromomethane	ug/L	ND	5.0	05/27/21 22:34	
Carbon disulfide	ug/L	ND	5.0	05/27/21 22:34	
Carbon tetrachloride	ug/L	ND	1.0	05/27/21 22:34	
Chlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
Chloroethane	ug/L	ND	1.0	05/27/21 22:34	
Chloroform	ug/L	ND	1.0	05/27/21 22:34	
Chloromethane	ug/L	ND	1.0	05/27/21 22:34	

all ND; no qual

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

METHOD BLANK: 2907379 Matrix: Water
Associated Lab Samples: 60370012003, 60370012004, 60370012005, 60370012006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 22:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 22:34	
Dibromochloromethane	ug/L	ND	1.0	05/27/21 22:34	
Dibromomethane	ug/L	ND	1.0	05/27/21 22:34	
Dichlorodifluoromethane	ug/L	ND	1.0	05/27/21 22:34	
Ethylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/27/21 22:34	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/27/21 22:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/27/21 22:34	
Methylene Chloride	ug/L	ND	1.0	05/27/21 22:34	
n-Butylbenzene	ug/L	ND	1.0	05/27/21 22:34	
n-Propylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Naphthalene	ug/L	ND	10.0	05/27/21 22:34	
p-Isopropyltoluene	ug/L	ND	1.0	05/27/21 22:34	
sec-Butylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Styrene	ug/L	ND	1.0	05/27/21 22:34	
tert-Butylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Tetrachloroethene	ug/L	ND	1.0	05/27/21 22:34	
Toluene	ug/L	ND	1.0	05/27/21 22:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 22:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 22:34	
Trichloroethene	ug/L	ND	1.0	05/27/21 22:34	
Trichlorofluoromethane	ug/L	ND	1.0	05/27/21 22:34	
Vinyl chloride	ug/L	ND	1.0	05/27/21 22:34	
Xylene (Total)	ug/L	ND	3.0	05/27/21 22:34	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	05/27/21 22:34	
4-Bromofluorobenzene (S)	%	103	80-120	05/27/21 22:34	
Toluene-d8 (S)	%	96	80-120	05/27/21 22:34	

LABORATORY CONTROL SAMPLE: 2907380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	80-120	
1,1,1-Trichloroethane	ug/L	20	20.2	101	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	75-125	
1,1,2-Trichloroethane	ug/L	20	20.8	104	80-120	
1,1-Dichloroethane	ug/L	20	19.2	96	75-125	
1,1-Dichloroethene	ug/L	20	18.7	93	80-120	
1,1-Dichloropropene	ug/L	20	19.6	98	80-125	
1,2,3-Trichlorobenzene	ug/L	20	21.1	105	75-125	
1,2,3-Trichloropropane	ug/L	20	19.1	96	80-125	
1,2,4-Trichlorobenzene	ug/L	20	19.6	98	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.1	100	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	99	70-120	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

LABORATORY CONTROL SAMPLE: 2907380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	80-120	
1,2-Dichlorobenzene	ug/L	20	19.8	99	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	75-120	
1,2-Dichloroethene (Total)	ug/L	40	39.2	98	80-120	
1,2-Dichloropropane	ug/L	20	18.9	94	80-125	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	80-125	
1,3-Dichlorobenzene	ug/L	20	19.7	99	80-120	
1,3-Dichloropropane	ug/L	20	20.1	100	80-120	
1,4-Dichlorobenzene	ug/L	20	19.3	96	80-120	
2,2-Dichloropropane	ug/L	20	16.1	80	60-130	
2-Butanone (MEK)	ug/L	100	90.3	90	40-150	
2-Chlorotoluene	ug/L	20	19.8	99	80-120	
2-Hexanone	ug/L	100	91.6	92	45-150	
4-Chlorotoluene	ug/L	20	20.6	103	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.8	94	65-140	
Acetone	ug/L	100	80.1	80	20-175	
Benzene	ug/L	20	18.5	93	80-120	
Bromobenzene	ug/L	20	18.8	94	80-120	
Bromochloromethane	ug/L	20	18.1	90	80-125	
Bromodichloromethane	ug/L	20	19.9	100	80-125	
Bromoform	ug/L	20	21.6	108	60-135	
Bromomethane	ug/L	20	15.9	80	10-165	
Carbon disulfide	ug/L	20	19.0	95	75-135	
Carbon tetrachloride	ug/L	20	21.1	105	80-125	
Chlorobenzene	ug/L	20	20.1	100	80-120	
Chloroethane	ug/L	20	16.1	80	70-130	
Chloroform	ug/L	20	20.7	104	80-120	
Chloromethane	ug/L	20	22.9	114	35-155	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	80-125	
Dibromochloromethane	ug/L	20	21.2	106	70-120	
Dibromomethane	ug/L	20	20.6	103	80-120	
Dichlorodifluoromethane	ug/L	20	17.8	89	50-150	
Ethylbenzene	ug/L	20	20.3	101	80-120	
Hexachloro-1,3-butadiene	ug/L	20	22.5	112	65-135	
Isopropylbenzene (Cumene)	ug/L	20	21.7	108	80-125	
Methyl-tert-butyl ether	ug/L	20	20.3	102	65-130	
Methylene Chloride	ug/L	20	18.1	90	75-120	
n-Butylbenzene	ug/L	20	19.2	96	80-125	
n-Propylbenzene	ug/L	20	19.7	99	80-120	
Naphthalene	ug/L	20	20.4	102	70-120	
p-Isopropyltoluene	ug/L	20	20.8	104	80-135	
sec-Butylbenzene	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	20.2	101	80-120	
tert-Butylbenzene	ug/L	20	21.2	106	80-120	
Tetrachloroethene	ug/L	20	21.5	107	80-120	
Toluene	ug/L	20	20.5	102	80-120	

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QUALITY CONTROL DATA

Project: NCWS (List A & List B)
Pace Project No.: 60370012

LABORATORY CONTROL SAMPLE: 2907380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	19.7	98	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.3	101	75-120	
Trichloroethene	ug/L	20	19.7	99	80-120	
Trichlorofluoromethane	ug/L	20	19.2	96	80-130	
Vinyl chloride	ug/L	20	17.4	87	65-130	
Xylene (Total)	ug/L	60	62.0	103	80-120	
1,2-Dichlorobenzene-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60370012002	**FAG-31-W-16**	RSK 175 Modified	622693		
60370012003	**FAG-22-W-16**	RSK 175 Modified	622693		
60370012001	**FAG-89-W-16**	EPA 5030B/8260	722822		
60370012002	**FAG-31-W-16**	EPA 5030B/8260	722822		
60370012003	**FAG-22-W-16**	EPA 5030B/8260	723190		
60370012004	**RW-341A-W-16**	EPA 5030B/8260	723190		
60370012005	**SW-01-W-16**	EPA 5030B/8260	723190		
60370012006	**TB-01-052021**	EPA 5030B/8260	723190		
60370012001	**FAG-89-W-16**	EPA 300.0	724050		
60370012002	**FAG-31-W-16**	EPA 300.0	724082		
60370012003	**FAG-22-W-16**	EPA 300.0	724082		
60370012004	**RW-341A-W-16**	EPA 300.0	724082		
60370012005	**SW-01-W-16**	EPA 300.0	724082		
60370012002	**FAG-31-W-16**	EPA 353.2	721993		
60370012003	**FAG-22-W-16**	EPA 353.2	721993		

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D. PACE PROJECT NUMBER 60370145

ORGANIC ANALYSIS SUPPORT DOCUMENTATION

Client Name:	Ramboll Environ	EnvStd Project Manager:	EER
Site/Project Name:	2021 Newton County Wells Site	Reviewed by:	CMR
Job Number/Task/Subtask:	20219471/01/0A	Approved by:	EER
Laboratory/Location:	Pace Kansas	Completion Date:	
SDG:	60370145	Validation Level:	2A
Sample Collection Dates:	5/21/21		

The following table indicates criteria that were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail **Note:** All items examined have been included in the Support Document unless otherwise noted.							Problems Identified						
	Check (√) if Yes or Footnote Letter for Comments Below													
Parameter/ Method	8260							8260						
Condition upon Receipt	√													
Sample Preservation	√													
Holding Times	√													
Blank Analysis Results	√													
Surrogates	√													
Laboratory Control Sample	√													
Matrix Spike/Matrix Spike Duplicate														
Laboratory Duplicate														
Field Duplicate														
Sample Preparation														
Detection Limit/Sensitivity														
Mass Tuning														
GC Instrument Performance – Resolution Checks and DDT/Endrin Breakdown														
Initial Calibrations														
Continuing Calibrations														
Internal Standard Performance														
Retention Time Shifts														
Quantitation of Results														
Qualitative Identification: Targets														
Qualitative Identification: TICs														
Multiple Dilutions/Analyses														
Analytical Sequence														
GC Column Agreement														
Manual Integration														
Percent Solids														
Extract Cleanup Documentation, Checks, and Calibrations														
Deliverable was Complete	√													
Others:														

Comments: Qualitative Identification, Quantitation of Results, and Manual Integrations are not included in the Support Documentation unless a problem was identified.

BLANK ANALYSIS RESULTS FOR ORGANIC PARAMETERS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/Kg-Soil, ug/L, Aq)	Qualification limit	
						5×	10×
V	Aq	MB	2909527	None present		0	0
V	Aq	MB	2907379	None present		0	0
V	Aq	TB	TB-01-052121	None present		0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0

1 - V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

2 - MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

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QUALITY CONTROL DATA

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

QC Batch: 723190
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60370145001, 60370145002, 60370145003

METHOD BLANK: 2907379
Matrix: Water
Associated Lab Samples: 60370145001, 60370145002, 60370145003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1-Dichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,1-Dichloroethene	ug/L	ND	1.0	05/27/21 22:34	
1,1-Dichloropropene	ug/L	ND	1.0	05/27/21 22:34	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/27/21 22:34	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/27/21 22:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichloroethane	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/27/21 22:34	
1,2-Dichloropropane	ug/L	ND	1.0	05/27/21 22:34	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/27/21 22:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
1,3-Dichloropropane	ug/L	ND	1.0	05/27/21 22:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
2,2-Dichloropropane	ug/L	ND	1.0	05/27/21 22:34	
2-Butanone (MEK)	ug/L	ND	10.0	05/27/21 22:34	
2-Chlorotoluene	ug/L	ND	1.0	05/27/21 22:34	
2-Hexanone	ug/L	ND	10.0	05/27/21 22:34	
4-Chlorotoluene	ug/L	ND	1.0	05/27/21 22:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/27/21 22:34	
Acetone	ug/L	ND	10.0	05/27/21 22:34	
Benzene	ug/L	ND	1.0	05/27/21 22:34	
Bromobenzene	ug/L	ND	1.0	05/27/21 22:34	
Bromochloromethane	ug/L	ND	1.0	05/27/21 22:34	
Bromodichloromethane	ug/L	ND	1.0	05/27/21 22:34	
Bromoform	ug/L	ND	1.0	05/27/21 22:34	
Bromomethane	ug/L	ND	5.0	05/27/21 22:34	
Carbon disulfide	ug/L	ND	5.0	05/27/21 22:34	
Carbon tetrachloride	ug/L	ND	1.0	05/27/21 22:34	
Chlorobenzene	ug/L	ND	1.0	05/27/21 22:34	
Chloroethane	ug/L	ND	1.0	05/27/21 22:34	
Chloroform	ug/L	ND	1.0	05/27/21 22:34	
Chloromethane	ug/L	ND	1.0	05/27/21 22:34	

all ND; no qual

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QUALITY CONTROL DATA

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

METHOD BLANK: 2907379 Matrix: Water
Associated Lab Samples: 60370145001, 60370145002, 60370145003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 22:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 22:34	
Dibromochloromethane	ug/L	ND	1.0	05/27/21 22:34	
Dibromomethane	ug/L	ND	1.0	05/27/21 22:34	
Dichlorodifluoromethane	ug/L	ND	1.0	05/27/21 22:34	
Ethylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/27/21 22:34	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/27/21 22:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/27/21 22:34	
Methylene Chloride	ug/L	ND	1.0	05/27/21 22:34	
n-Butylbenzene	ug/L	ND	1.0	05/27/21 22:34	
n-Propylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Naphthalene	ug/L	ND	10.0	05/27/21 22:34	
p-Isopropyltoluene	ug/L	ND	1.0	05/27/21 22:34	
sec-Butylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Styrene	ug/L	ND	1.0	05/27/21 22:34	
tert-Butylbenzene	ug/L	ND	1.0	05/27/21 22:34	
Tetrachloroethene	ug/L	ND	1.0	05/27/21 22:34	
Toluene	ug/L	ND	1.0	05/27/21 22:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/27/21 22:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/27/21 22:34	
Trichloroethene	ug/L	ND	1.0	05/27/21 22:34	
Trichlorofluoromethane	ug/L	ND	1.0	05/27/21 22:34	
Vinyl chloride	ug/L	ND	1.0	05/27/21 22:34	
Xylene (Total)	ug/L	ND	3.0	05/27/21 22:34	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	05/27/21 22:34	
4-Bromofluorobenzene (S)	%	103	80-120	05/27/21 22:34	
Toluene-d8 (S)	%	96	80-120	05/27/21 22:34	

LABORATORY CONTROL SAMPLE: 2907380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	80-120	
1,1,1-Trichloroethane	ug/L	20	20.2	101	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	75-125	
1,1,2-Trichloroethane	ug/L	20	20.8	104	80-120	
1,1-Dichloroethane	ug/L	20	19.2	96	75-125	
1,1-Dichloroethene	ug/L	20	18.7	93	80-120	
1,1-Dichloropropene	ug/L	20	19.6	98	80-125	
1,2,3-Trichlorobenzene	ug/L	20	21.1	105	75-125	
1,2,3-Trichloropropane	ug/L	20	19.1	96	80-125	
1,2,4-Trichlorobenzene	ug/L	20	19.6	98	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.1	100	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	99	70-120	

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QUALITY CONTROL DATA

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

LABORATORY CONTROL SAMPLE: 2907380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	80-120	
1,2-Dichlorobenzene	ug/L	20	19.8	99	80-120	
1,2-Dichloroethane	ug/L	20	20.1	101	75-120	
1,2-Dichloroethene (Total)	ug/L	40	39.2	98	80-120	
1,2-Dichloropropane	ug/L	20	18.9	94	80-125	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	80-125	
1,3-Dichlorobenzene	ug/L	20	19.7	99	80-120	
1,3-Dichloropropane	ug/L	20	20.1	100	80-120	
1,4-Dichlorobenzene	ug/L	20	19.3	96	80-120	
2,2-Dichloropropane	ug/L	20	16.1	80	60-130	
2-Butanone (MEK)	ug/L	100	90.3	90	40-150	
2-Chlorotoluene	ug/L	20	19.8	99	80-120	
2-Hexanone	ug/L	100	91.6	92	45-150	
4-Chlorotoluene	ug/L	20	20.6	103	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.8	94	65-140	
Acetone	ug/L	100	80.1	80	20-175	
Benzene	ug/L	20	18.5	93	80-120	
Bromobenzene	ug/L	20	18.8	94	80-120	
Bromochloromethane	ug/L	20	18.1	90	80-125	
Bromodichloromethane	ug/L	20	19.9	100	80-125	
Bromoform	ug/L	20	21.6	108	60-135	
Bromomethane	ug/L	20	15.9	80	10-165	
Carbon disulfide	ug/L	20	19.0	95	75-135	
Carbon tetrachloride	ug/L	20	21.1	105	80-125	
Chlorobenzene	ug/L	20	20.1	100	80-120	
Chloroethane	ug/L	20	16.1	80	70-130	
Chloroform	ug/L	20	20.7	104	80-120	
Chloromethane	ug/L	20	22.9	114	35-155	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	80-125	
Dibromochloromethane	ug/L	20	21.2	106	70-120	
Dibromomethane	ug/L	20	20.6	103	80-120	
Dichlorodifluoromethane	ug/L	20	17.8	89	50-150	
Ethylbenzene	ug/L	20	20.3	101	80-120	
Hexachloro-1,3-butadiene	ug/L	20	22.5	112	65-135	
Isopropylbenzene (Cumene)	ug/L	20	21.7	108	80-125	
Methyl-tert-butyl ether	ug/L	20	20.3	102	65-130	
Methylene Chloride	ug/L	20	18.1	90	75-120	
n-Butylbenzene	ug/L	20	19.2	96	80-125	
n-Propylbenzene	ug/L	20	19.7	99	80-120	
Naphthalene	ug/L	20	20.4	102	70-120	
p-Isopropyltoluene	ug/L	20	20.8	104	80-135	
sec-Butylbenzene	ug/L	20	20.0	100	80-120	
Styrene	ug/L	20	20.2	101	80-120	
tert-Butylbenzene	ug/L	20	21.2	106	80-120	
Tetrachloroethene	ug/L	20	21.5	107	80-120	
Toluene	ug/L	20	20.5	102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

LABORATORY CONTROL SAMPLE: 2907380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	19.7	98	80-120	
trans-1,3-Dichloropropene	ug/L	20	20.3	101	75-120	
Trichloroethene	ug/L	20	19.7	99	80-120	
Trichlorofluoromethane	ug/L	20	19.2	96	80-130	
Vinyl chloride	ug/L	20	17.4	87	65-130	
Xylene (Total)	ug/L	60	62.0	103	80-120	
1,2-Dichlorobenzene-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

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(913)599-5665

QUALITY CONTROL DATA

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

QC Batch: 723692
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60370145002

METHOD BLANK: 2909527
Matrix: Water
Associated Lab Samples: 60370145002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/01/21 21:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/01/21 21:29	
Trichloroethene	ug/L	ND	1.0	06/01/21 21:29	
1,2-Dichlorobenzene-d4 (S)	%	97	80-120	06/01/21 21:29	
4-Bromofluorobenzene (S)	%	102	80-120	06/01/21 21:29	
Toluene-d8 (S)	%	105	80-120	06/01/21 21:29	

all ND; no qual

LABORATORY CONTROL SAMPLE: 2909528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.4	98	80-120	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
Trichloroethene	ug/L	20	20.1	101	80-120	
1,2-Dichlorobenzene-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			104	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60370145001	**FAG-85-W-16**	RSK 175 Modified	623918		
60370145002	**FAG-74-W-16**	RSK 175 Modified	623918		
60370145001	**FAG-85-W-16**	EPA 5030B/8260	723190		
60370145002	**FAG-74-W-16**	EPA 5030B/8260	723190		
60370145002	**FAG-74-W-16**	EPA 5030B/8260	723692		
60370145003	**TB-01-052121**	EPA 5030B/8260	723190		
60370145001	**FAG-85-W-16**	EPA 300.0	724356		
60370145002	**FAG-74-W-16**	EPA 300.0	724356		
60370145001	**FAG-85-W-16**	EPA 353.2	722085		
60370145002	**FAG-74-W-16**	EPA 353.2	722085		

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SECTION 4

PROJECT CHAIN-OF-CUSTODY RECORDS

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: NCWS (List A & List B)
Pace Project No.: 60369753

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60369753001	**FAG-33-W-16**	Water	05/18/21 08:15	05/19/21 08:30
60369753002	**FAG-56-W-16**	Water	05/18/21 09:07	05/19/21 08:30
60369753003	**R1-MW8-W-16**	Water	05/18/21 09:38	05/19/21 08:30
60369753004	**R1-MW2-W-16**	Water	05/18/21 10:50	05/19/21 08:30
60369753005	**R1-MW5-W-16**	Water	05/18/21 11:54	05/19/21 08:30
60369753006	**FAG-62-W-16**	Water	05/18/21 12:55	05/19/21 08:30
60369753007	**FAG-43-W-16**	Water	05/18/21 13:42	05/19/21 08:30
60369753008	**R1-MW7-W-16**	Water	05/18/21 14:55	05/19/21 08:30
60369753009	**FAG-35-W-16**	Water	05/18/21 15:31	05/19/21 08:30
60369753010	**FAG-47-W-16**	Water	05/18/21 15:58	05/19/21 08:30
60369753011	**R1-MW6-W-16**	Water	05/18/21 16:35	05/19/21 08:30
60369753012	**FAG-46-W-16**	Water	05/18/21 14:31	05/19/21 08:30
60369753013	**TB-01-051821**	Water	05/18/21 17:00	05/19/21 08:30

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 2

Section A Required Client Information:

Company:	Ramboll Environ
Address:	1807 Park 270 Drive, Ste 450
	St. Louis, MO 63146
Email To:	dburge@ramboll.com
Phone: 314-513-1973	Fax: 314-513-1951
Requested Due Date/TAT:	Standard TAT

Section B Required Project Information:

Report To:	Doug Burge
Copy To:	Haley Ahlers
Purchase Order No.:	
Project Name:	NCWS (List A)
Project Number:	1937680A

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	1320

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MO

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs	Nitrate	Sulfate	Chloride	Methane/Ethane/Ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	FAG-33-W-16	WT	G	NA	N/A	5/18/21	0815		7										X	X	X	X	X		
2	FAG-56-W-16	WT	G				0907		7										X	X	X	X	X		
3	RI-MW8-W-16	WT	G				0938		4										X			X			
4	RI-MW2-W-16	WT	G				1050		4										X			X			
5	RI-MW5-W-16	WT	G				1154		4										X			X			
6	FAG-62-W-16	WT	G				1255		7										X	X	X	X	X		
7	FAG-43-W-16	WT	G				1342		4										X			X			
8	RI-MW7-W-16	WT	G				1455		4										X			X			
9	FAG-35-W-16	WT	G				1531		7										X	X	X	X	X		
10	FAG-47-W-16	WT	G				1558		7										X	X	X	X	X		
11	RI-MW6-W-16	WT	G				1635		4										X			X			
12	FAG-46-W-16	WT	G				1431		4										X			X			

60309753

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	IAN McQUAIG	5/18/21	1710	[signature]	5-19-21	0830	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: IAN McQUAIG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/18/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

Section A Required Client Information:

Company:	Ramboll Environ
Address:	1807 Park 270 Drive, Ste 450
	St. Louis, MO 63146
Email To:	dburge@ramboll.com
Phone: 314-513-1973	Fax: 314-513-1951
Requested Due Date/TAT:	Standard TAT

Section B Required Project Information:

Report To:	Doug Burge
Copy To:	Haley Ahlers
Purchase Order No.:	
Project Name:	NCWS (List A)
Project Number:	1937680A

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	1320

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MO

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOCs	Nitrate	Sulfate	Chloride	Methane/Ethane/Ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-01-051821	WT	G	N/A	N/A	5/18/21	1700		2									X						60569753
2		WT	G																					
3		WT	G																					
4		WT	G																					
5		WT	G																					
6		WT	G																					
7		WT	G																					
8		WT	G																					
9		WT	G																					
10		WT	G																					
11		WT	G																					
12		WT	G																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	IAN McQUAIG	5/18/21	1710	Wright / PU	5.19.21	0830	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Ian McQuaig					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 05/18/21				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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Sample Condition Upon Receipt

WO# : 60369753

60369753

Client Name: Ramboll Env.

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 7873 1729 8600 Pace Shipping Label Used? Yes ☑ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ zplc

Thermometer Used: T298 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 3.8 **Corr. Factor** 0.0 **Corrected** 3.8

Date and initials of person examining contents: 5/19 ML

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	NOX
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☑No ☐N/A	sample R1-MW2-W-14 Cont. labels read 1045A
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☑Yes ☐No ☐N/A	2 VG9H
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

F-KS-C-003-Rev.11, February 28, 2018

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: NCWS (List A & List B)
Pace Project No.: 60369924

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60369924001	**FAG-34-W-16**	Water	05/19/21 08:34	05/20/21 09:00
60369924002	**FAG-05-W-16**	Water	05/19/21 09:00	05/20/21 09:00
60369924003	**LIST B FD**	Water	05/19/21 09:00	05/20/21 09:00
60369924004	**FAG-73-W-16**	Water	05/19/21 09:15	05/20/21 09:00
60369924005	**R1-MW1-W-16**	Water	05/19/21 10:41	05/20/21 09:00
60369924006	**FAG-11-W-16**	Water	05/19/21 10:48	05/20/21 09:00
60369924007	**R1-MW9-W-16**	Water	05/19/21 12:28	05/20/21 09:00
60369924008	**FAG-50-W-16**	Water	05/19/21 12:50	05/20/21 09:00
60369924009	**FAG-88-W-16**	Water	05/19/21 13:40	05/20/21 09:00
60369924010	**FAG-32-W-16**	Water	05/19/21 12:30	05/20/21 09:00
60369924011	**LIST A FD**	Water	05/19/21 12:30	05/20/21 09:00
60369924012	**FAG-36-W-16**	Water	05/19/21 15:16	05/20/21 09:00
60369924013	**EB-01-051921**	Water	05/19/21 15:50	05/20/21 09:00
60369924014	**FAG-AW4-W-16**	Water	05/19/21 16:57	05/20/21 09:00
60369924015	**TB-01-051921**	Water	05/19/21 17:10	05/20/21 09:00
60369924016	**TB-02-051921**	Water	05/19/21 17:10	05/20/21 09:00

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Page: 1 of 2

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Address:	1807 Park 270 Drive, Ste 450
	St. Louis, MO 63146
Email To:	dburge@ramboll.com
Phone: 314-513-1973	Fax: 314-513-1951
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Doug Burge
Copy To:	~~Haley Ahlers~~ IAN McQuaig imcquaig@ramboll.com
Purchase Order No.:	
Project Name:	NCWS (List A) + List B
Project Number:	1937680A

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	1320

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MO

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs	Nitrate	Sulfate	Chloride	Methane/Ethane/Ethene							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	FAG-34-W-16	WT	G	N/A	N/A	5/19/21	0834		7										X	X	X	X	X								6076 9924
2	FAG-05-W-16	WT	G	↓	↓	↓	0900		4										X			X									
3	List B FD	WT	G				0900		4										X			X									
4	FAG-73-W-16	WT	G				0915		7										X	X	X	X	X								
5	FAG-73-W-16MS	WT	G				0915		7										X	X	X	X	X								
6	FAG-73-W-16MSD	WT	G				0915		7										X	X	X	X	X								
7	R1-MW1-W-16	WT	G				1041		4										X			X									
8	FAG-11-W-16	WT	G				1048		4										X			X									
9	R1-MW9-W-16	WT	G				1228		4										X			X									
10	FAG-50-W-16	WT	G				1250		7										X	X	X	X	X								
11	FAG-88-W-16	WT	G				1340		4										X			X									
12	FAG-88-W-16 MS	WT	G	↓	↓	↓	1340		4										X			X									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	IAN McQuaig / Ramboll	5/19/21	1725	[illegible]	5-20-21	0900	2.1	Y	Y	Y
							3.7	↓	↓	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: IAN McQUAIG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/19/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:

Company:	Ramboll Environ
Address:	1807 Park 270 Drive, Ste 450
	St. Louis, MO 63146
Email To:	dburge@ramboll.com
Phone: 314-513-1973	Fax: 314-513-1951
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Doug Burge
Copy To:	~~Haley Ahlers~~ IAN MCQUAIG imcquaig@ramboll.com
Purchase Order No.:	
Project Name:	NCWS (List A) + List B
Project Number:	1937680A

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	1320

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MO

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	Nitrate	Sulfate	Chloride	Methane/Ethane/Ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	FAG-08-W-16 MSD	WT	G	n/a	n/a	5/19/21	1340		4									X			X			60369924
2	FAG-32-W-16	WT	G				1230		7									X	X	X	X	X		
3	List A FD	WT	G				1230		7									X	X	X	X	X		
4	FAG-36-W-16	WT	G				1516		7									X	X	X	X	X		
5	EB-01-051921	WT	G				1550		3									X						
6	FAG-AW4-W-16	WT	G				1657		4									X			X			
7	TB-01-051921	WT	G				1710		2									X						
8	TB-02-051921	WT	G				1710		2									X						
9		WT	G																					
10		WT	G																					
11		WT	G																					
12		WT	G																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	IAN MCQUAIG / RAMBOLL	5/19/21	1725	[illegible]	5.20.21	0900	2.1	Y	Y	Y
							3.7	↓	↓	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: IAN MCQUAIG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/19/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.08, 12-Oct-2007

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Sample Condition Upon Receipt

WO# : 60369924

60369924

Client Name: Ramboll Environ

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 7873 6386 8517 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ ZPLC

Thermometer Used: T-298 **Type of Ice:** Wet Blue None 2.1 °C

Cooler Temperature (°C): **As-read** 2.1 3.7 **Corr. Factor** 0.0 **Corrected** 3.7

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 5-20-21 KD

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	NOX
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☑Yes ☐No ☐N/A	4 VG9H
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

REVIEWED
By jchurch at 4:00 pm, 5/20/21

Project Manager Review: Date:

F-KS-C-003-Rev 11, February 28, 2018

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: NCWS (List A & List B)
Pace Project No.: 60370012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60370012001	**FAG-89-W-16**	Water	05/20/21 08:50	05/21/21 08:25
60370012002	**FAG-31-W-16**	Water	05/20/21 08:53	05/21/21 08:25
60370012003	**FAG-22-W-16**	Water	05/20/21 10:50	05/21/21 08:25
60370012004	**RW-341A-W-16**	Water	05/20/21 11:20	05/21/21 08:25
60370012005	**SW-01-W-16**	Water	05/20/21 11:30	05/21/21 08:25
60370012006	**TB-01-052021**	Water	05/20/21 11:55	05/21/21 08:25

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Page: 1 of 1

Section A
Required Client Information:

Company:	Ramboll Environ
Address:	1807 Park 270 Drive, Ste 450
	St. Louis, MO 63146
Email To:	dburge@ramboll.com
Phone: 314-513-1973	Fax: 314-513-1951
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Doug Burge
Copy To:	~~Haley Ahlers~~ IAN McQUAIG imcquaig@ramboll.com
Purchase Order No.:	
Project Name:	NCWS ~~(List B)~~ (List A + List B)
Project Number:	1937680A

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	1320

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MO

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): 8260 VOCs	Chloride	Nitrate	Sulfate	Methane/Ethane/Ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	FAG-89-W-16	WT	G	n/a	n/a	5/20/21	0850		4									X	X					3-VG9H 1-BP3U
2	FAG-31-W-16	WT	G	↓	↓	↓	0853		7									X	X	X	X	X	↓	3-VG9U
3	FAG-22-W-16	WT	G				1050		4									X	X	X	X	X		
4	RW-341A-W-16	WT	G				1120		4									X	X					3-VG9H 1-BP3U
5	SW-01-W-16	WT	G				1130		4									X	X					
6	TB-01-052021	WT	G				1155		2									X						2-VG9H
7	TB-02-052021	WT	G				1155		2									X						
8		WT	G																					
9		WT	G																					
10		WT	G																					
11		WT	G																					
12		WT	G																					

60370012
~~6036~~ 0456121

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	IAN McQUAIG / Ramboll	5/20/21	1230	Uriot / A	5-21-21	0825	4.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: IAN McQUAIG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/20/21

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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Sample Condition Upon Receipt

WO# : 60370012

60370012

Client Name: Ramboll Environ

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 7873 9643 3877 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ Zplc

Thermometer Used: T298 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 4.4 **Corr. Factor** 0.0 **Corrected** 4.4

Date and initials of person examining contents: 5/21/21 SR

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	NOV
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☑No ☐N/A	Did not receive TB-02
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☑Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: REVIEWED By jchurch at 12:35 pm, 5/21/21 Date: _____

F-KS-C-003-Rev 11, February 28, 2018

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: NCWS (LIST A & LIST B)
Pace Project No.: 60370145

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60370145001	**FAG-85-W-16**	Water	05/21/21 14:10	05/22/21 08:55
60370145002	**FAG-74-W-16**	Water	05/21/21 14:50	05/22/21 08:55
60370145003	**TB-01-052121**	Water	05/21/21 15:00	05/22/21 08:55

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Ramboll Environ	Report To:	Doug Burge	Attention:	
Address:	1807 Park 270 Drive, Ste 450	Copy To:	~~Haley Ahlers~~ IAN McQUAIG	Company Name:	
	St. Louis, MO 63146		imcquaig@ramboll.com	Address:	
Email To:	dburge@ramboll.com	Purchase Order No.:		Pace Quote Reference:	
Phone: 314-513-1973	Fax: 314-513-1951	Project Name:	NCWS ~~(List B)~~ (List A + List B)	Pace Project Manager:	Jamie Church
Requested Due Date/TAT:	Standard	Project Number:	1937680A	Pace Profile #:	1320

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MO

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260 VOCs	Chloride	Nitrate	Sulfate	Methane/ethane/ethene						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60370145
1	FAG-85-W-16	WT	G	n/a	n/a	5/21/21	1410		7										X	X	X	X	X		3-VG9H			3-VG9U	1-BP3U
2	FAG-74-W-16	WT	G	↓	↓	↓	1450		7										X	X	X	X	X		↓			↓	↓
3	TB-01-052121	WT	G	↓	↓	↓	1500		2										X						2-VG9H				
4		WT	G																											
5		WT	G																											
6		WT	G																											
7		WT	G																											
8		WT	G																											
9		WT	G																											
10		WT	G																											
11		WT	G																											
12		WT	G																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	IAN McQUAIG / RAMBOLL	5/21/21	1540		~~5/22/21~~	~~1015~~ 5-22-21	10			
				Davison/pace	5-22-21	0855	2.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: IAN McQUAIG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/21/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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Sample Condition Upon Receipt

WO# : 60370145

60370145

Client Name: Ramboll Environ

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 7874 4800 3863 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T298 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 2.0 **Corr. Factor** 0.0 **Corrected** 2.0

Date and initials of person examining contents: 5/22/21 SR

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	NOX
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WW	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☑Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution

REVIEWED
By jchurch at 9:50 am, 5/24/21

Project Manager Review: Date:

F-KS-C-003-Rev.11, February 28, 2018

APPENDIX D
Temporal Trend Analysis Data Input and Output

APPENDIX D-1
Full MNA Data Set

MANN KENDALL ANALYSIS INPUT

Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-05	10/21/2008	cis-1,2-Dichloroethene	16.7	ug/L	
FAG-05	10/21/2008	Trichloroethene	94.2	ug/L	
FAG-05	10/21/2008	Vinyl chloride	1	ug/L	U
FAG-05	4/29/2009	cis-1,2-Dichloroethene	14.7	ug/L	
FAG-05	4/29/2009	Trichloroethene	88.1	ug/L	
FAG-05	4/29/2009	Vinyl chloride	1	ug/L	U
FAG-05	10/15/2009	cis-1,2-Dichloroethene	17.3	ug/L	
FAG-05	10/15/2009	Trichloroethene	63.6	ug/L	J
FAG-05	10/15/2009	Vinyl chloride	1	ug/L	U
FAG-05	4/28/2010	cis-1,2-Dichloroethene	10.7	ug/L	
FAG-05	4/28/2010	Trichloroethene	64.4	ug/L	
FAG-05	4/28/2010	Vinyl chloride	1	ug/L	U
FAG-05	10/21/2010	cis-1,2-Dichloroethene	21.8	ug/L	
FAG-05	10/21/2010	Trichloroethene	87.5	ug/L	
FAG-05	10/21/2010	Vinyl chloride	1	ug/L	U
FAG-05	4/27/2011	cis-1,2-Dichloroethene	8.6	ug/L	
FAG-05	4/27/2011	Trichloroethene	47.8	ug/L	
FAG-05	4/27/2011	Vinyl chloride	1	ug/L	U
FAG-05	10/26/2011	cis-1,2-Dichloroethene	17.4	ug/L	
FAG-05	10/26/2011	Trichloroethene	77.6	ug/L	
FAG-05	10/26/2011	Vinyl chloride	1	ug/L	U
FAG-05	5/2/2012	cis-1,2-Dichloroethene	8.1	ug/L	
FAG-05	5/2/2012	Trichloroethene	44	ug/L	
FAG-05	5/2/2012	Vinyl chloride	1	ug/L	U
FAG-05	10/10/2012	cis-1,2-Dichloroethene	14	ug/L	
FAG-05	10/10/2012	Trichloroethene	62	ug/L	
FAG-05	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-05	5/15/2013	cis-1,2-Dichloroethene	6.1	ug/L	
FAG-05	5/15/2013	Trichloroethene	35.9	ug/L	
FAG-05	5/15/2013	Vinyl chloride	1	ug/L	U
FAG-05	10/19/2016	cis-1,2-Dichloroethene	17.2	ug/L	
FAG-05	10/19/2016	Trichloroethene	75.6	ug/L	
FAG-05	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-05	5/31/2017	cis-1,2-Dichloroethene	6.2	ug/L	
FAG-05	5/31/2017	Trichloroethene	32.8	ug/L	
FAG-05	5/31/2017	Vinyl chloride	1	ug/L	U
FAG-05	10/12/2017	cis-1,2-Dichloroethene	14.5	ug/L	
FAG-05	10/12/2017	Trichloroethene	69.6	ug/L	
FAG-05	10/12/2017	Vinyl chloride	1	ug/L	U
FAG-05	10/11/2018	cis-1,2-Dichloroethene	12.8	ug/L	
FAG-05	10/11/2018	Trichloroethene	67.9	ug/L	
FAG-05	10/11/2018	Vinyl chloride	1	ug/L	U
FAG-05	9/16/2020	cis-1,2-Dichloroethene	5.5	ug/L	
FAG-05	9/16/2020	Trichloroethene	31.7	ug/L	
FAG-05	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-05	5/19/2021	cis-1,2-Dichloroethene	3.1	ug/L	
FAG-05	5/19/2021	Trichloroethene	23.9	ug/L	
FAG-05	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-11	10/23/2008	cis-1,2-Dichloroethene	2.7	ug/L	
FAG-11	10/23/2008	Trichloroethene	18.4	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-11	10/23/2008	Vinyl chloride	1	ug/L	U
FAG-11	4/29/2009	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-11	4/29/2009	Trichloroethene	11.4	ug/L	
FAG-11	4/29/2009	Vinyl chloride	1	ug/L	U
FAG-11	10/14/2009	cis-1,2-Dichloroethene	2.5	ug/L	
FAG-11	10/14/2009	Trichloroethene	15.8	ug/L	
FAG-11	10/14/2009	Vinyl chloride	1	ug/L	U
FAG-11	4/27/2010	cis-1,2-Dichloroethene	1.7	ug/L	
FAG-11	4/27/2010	Trichloroethene	10.6	ug/L	
FAG-11	4/27/2010	Vinyl chloride	1	ug/L	U
FAG-11	10/19/2010	cis-1,2-Dichloroethene	2.5	ug/L	
FAG-11	10/19/2010	Trichloroethene	15.2	ug/L	
FAG-11	10/19/2010	Vinyl chloride	1	ug/L	U
FAG-11	5/5/2011	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-11	5/5/2011	Trichloroethene	13.7	ug/L	
FAG-11	5/5/2011	Vinyl chloride	1	ug/L	U
FAG-11	10/26/2011	cis-1,2-Dichloroethene	2.9	ug/L	
FAG-11	10/26/2011	Trichloroethene	15.1	ug/L	
FAG-11	10/26/2011	Vinyl chloride	1	ug/L	U
FAG-11	5/3/2012	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-11	5/3/2012	Trichloroethene	13.5	ug/L	
FAG-11	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-11	10/10/2012	cis-1,2-Dichloroethene	2	ug/L	
FAG-11	10/10/2012	Trichloroethene	10.8	ug/L	
FAG-11	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-11	5/14/2013	cis-1,2-Dichloroethene	1.5	ug/L	
FAG-11	5/14/2013	Trichloroethene	8	ug/L	
FAG-11	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-11	10/19/2016	cis-1,2-Dichloroethene	1.9	ug/L	
FAG-11	10/19/2016	Trichloroethene	9.6	ug/L	
FAG-11	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-11	5/30/2017	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	5/30/2017	Trichloroethene	1.9	ug/L	
FAG-11	5/30/2017	Vinyl chloride	1	ug/L	U
FAG-11	10/11/2017	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	10/11/2017	Trichloroethene	1	ug/L	U
FAG-11	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-11	10/10/2018	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	10/10/2018	Trichloroethene	1	ug/L	U
FAG-11	10/10/2018	Vinyl chloride	1	ug/L	U
FAG-11	9/16/2020	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	9/16/2020	Trichloroethene	1	ug/L	U
FAG-11	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-11	5/19/2021	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	5/19/2021	Trichloroethene	1	ug/L	U
FAG-11	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-22	10/23/2008	cis-1,2-Dichloroethene	581	ug/L	
FAG-22	10/23/2008	Trichloroethene	1120	ug/L	
FAG-22	10/23/2008	Vinyl chloride	47.2	ug/L	
FAG-22	5/21/2009	cis-1,2-Dichloroethene	852	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-22	5/21/2009	Trichloroethene	1230	ug/L	
FAG-22	5/21/2009	Vinyl chloride	144	ug/L	
FAG-22	10/16/2009	cis-1,2-Dichloroethene	694	ug/L	
FAG-22	10/16/2009	Trichloroethene	1110	ug/L	
FAG-22	10/16/2009	Vinyl chloride	80.9	ug/L	
FAG-22	4/29/2010	cis-1,2-Dichloroethene	703	ug/L	
FAG-22	4/29/2010	Trichloroethene	932	ug/L	
FAG-22	4/29/2010	Vinyl chloride	133	ug/L	
FAG-22	10/21/2010	cis-1,2-Dichloroethene	588	ug/L	
FAG-22	10/21/2010	Trichloroethene	788	ug/L	
FAG-22	10/21/2010	Vinyl chloride	108	ug/L	
FAG-22	4/28/2011	cis-1,2-Dichloroethene	681	ug/L	
FAG-22	4/28/2011	Trichloroethene	1280	ug/L	
FAG-22	4/28/2011	Vinyl chloride	127	ug/L	
FAG-22	10/28/2011	cis-1,2-Dichloroethene	608	ug/L	
FAG-22	10/28/2011	Trichloroethene	1410	ug/L	
FAG-22	10/28/2011	Vinyl chloride	101	ug/L	
FAG-22	5/3/2012	cis-1,2-Dichloroethene	531	ug/L	
FAG-22	5/3/2012	Trichloroethene	1300	ug/L	
FAG-22	5/3/2012	Vinyl chloride	117	ug/L	
FAG-22	10/11/2012	cis-1,2-Dichloroethene	528	ug/L	
FAG-22	10/11/2012	Trichloroethene	1660	ug/L	
FAG-22	10/11/2012	Vinyl chloride	80.7	ug/L	
FAG-22	5/16/2013	cis-1,2-Dichloroethene	477	ug/L	
FAG-22	5/16/2013	Trichloroethene	1510	ug/L	
FAG-22	5/16/2013	Vinyl chloride	60.8	ug/L	
FAG-22	10/20/2016	cis-1,2-Dichloroethene	707	ug/L	
FAG-22	10/20/2016	Trichloroethene	1340	ug/L	
FAG-22	10/20/2016	Vinyl chloride	93.1	ug/L	
FAG-22	5/31/2017	cis-1,2-Dichloroethene	523	ug/L	
FAG-22	5/31/2017	Trichloroethene	1860	ug/L	
FAG-22	5/31/2017	Vinyl chloride	63.1	ug/L	
FAG-22	10/12/2017	cis-1,2-Dichloroethene	464	ug/L	
FAG-22	10/12/2017	Trichloroethene	1280	ug/L	
FAG-22	10/12/2017	Vinyl chloride	73.6	ug/L	
FAG-22	10/11/2018	cis-1,2-Dichloroethene	514	ug/L	
FAG-22	10/11/2018	Trichloroethene	1680	ug/L	
FAG-22	10/11/2018	Vinyl chloride	110	ug/L	
FAG-22	9/17/2020	cis-1,2-Dichloroethene	189	ug/L	
FAG-22	9/17/2020	Trichloroethene	420	ug/L	
FAG-22	9/17/2020	Vinyl chloride	25	ug/L	U
FAG-22	5/20/2021	cis-1,2-Dichloroethene	165	ug/L	
FAG-22	5/20/2021	Trichloroethene	344	ug/L	
FAG-22	5/20/2021	Vinyl chloride	18.3	ug/L	
FAG-31	10/23/2008	cis-1,2-Dichloroethene	116	ug/L	
FAG-31	10/23/2008	Trichloroethene	791	ug/L	
FAG-31	10/23/2008	Vinyl chloride	10	ug/L	
FAG-31	5/21/2009	cis-1,2-Dichloroethene	182	ug/L	
FAG-31	5/21/2009	Trichloroethene	861	ug/L	
FAG-31	5/21/2009	Vinyl chloride	1	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-31	10/15/2009	cis-1,2-Dichloroethene	184	ug/L	
FAG-31	10/15/2009	Trichloroethene	1070	ug/L	
FAG-31	10/15/2009	Vinyl chloride	1	ug/L	U
FAG-31	4/29/2010	cis-1,2-Dichloroethene	166	ug/L	
FAG-31	4/29/2010	Trichloroethene	719	ug/L	
FAG-31	4/29/2010	Vinyl chloride	10	ug/L	U
FAG-31	10/21/2010	cis-1,2-Dichloroethene	170	ug/L	
FAG-31	10/21/2010	Trichloroethene	653	ug/L	
FAG-31	10/21/2010	Vinyl chloride	10	ug/L	U
FAG-31	4/28/2011	cis-1,2-Dichloroethene	168	ug/L	
FAG-31	4/28/2011	Trichloroethene	698	ug/L	
FAG-31	4/28/2011	Vinyl chloride	10	ug/L	U
FAG-31	10/27/2011	cis-1,2-Dichloroethene	168	ug/L	
FAG-31	10/27/2011	Trichloroethene	698	ug/L	
FAG-31	10/27/2011	Vinyl chloride	1	ug/L	U
FAG-31	5/3/2012	cis-1,2-Dichloroethene	161	ug/L	
FAG-31	5/3/2012	Trichloroethene	698	ug/L	
FAG-31	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-31	10/11/2012	cis-1,2-Dichloroethene	201	ug/L	
FAG-31	10/11/2012	Trichloroethene	705	ug/L	
FAG-31	10/11/2012	Vinyl chloride	1	ug/L	U
FAG-31	5/16/2013	cis-1,2-Dichloroethene	196	ug/L	
FAG-31	5/16/2013	Trichloroethene	724	ug/L	
FAG-31	5/16/2013	Vinyl chloride	1	ug/L	U
FAG-31	10/20/2016	cis-1,2-Dichloroethene	305	ug/L	
FAG-31	10/20/2016	Trichloroethene	765	ug/L	
FAG-31	10/20/2016	Vinyl chloride	10	ug/L	U
FAG-31	5/31/2017	cis-1,2-Dichloroethene	276	ug/L	
FAG-31	5/31/2017	Trichloroethene	719	ug/L	
FAG-31	5/31/2017	Vinyl chloride	10	ug/L	U
FAG-31	10/12/2017	cis-1,2-Dichloroethene	247	ug/L	
FAG-31	10/12/2017	Trichloroethene	735	ug/L	
FAG-31	10/12/2017	Vinyl chloride	10	ug/L	U
FAG-31	10/11/2018	cis-1,2-Dichloroethene	274	ug/L	
FAG-31	10/11/2018	Trichloroethene	934	ug/L	
FAG-31	10/11/2018	Vinyl chloride	10	ug/L	U
FAG-31	9/17/2020	cis-1,2-Dichloroethene	244	ug/L	
FAG-31	9/17/2020	Trichloroethene	705	ug/L	
FAG-31	9/17/2020	Vinyl chloride	10	ug/L	U
FAG-31	5/20/2021	cis-1,2-Dichloroethene	248	ug/L	
FAG-31	5/20/2021	Trichloroethene	733	ug/L	
FAG-31	5/20/2021	Vinyl chloride	10	ug/L	U
FAG-32	10/22/2008	cis-1,2-Dichloroethene	363	ug/L	
FAG-32	10/22/2008	Trichloroethene	1730	ug/L	
FAG-32	10/22/2008	Vinyl chloride	1	ug/L	U
FAG-32	5/20/2009	cis-1,2-Dichloroethene	313	ug/L	
FAG-32	5/20/2009	Trichloroethene	1500	ug/L	
FAG-32	5/20/2009	Vinyl chloride	1	ug/L	U
FAG-32	10/13/2009	cis-1,2-Dichloroethene	375	ug/L	
FAG-32	10/13/2009	Trichloroethene	1670	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-32	10/13/2009	Vinyl chloride	1	ug/L	U
FAG-32	4/29/2010	cis-1,2-Dichloroethene	338	ug/L	
FAG-32	4/29/2010	Trichloroethene	1630	ug/L	
FAG-32	4/29/2010	Vinyl chloride	1	ug/L	U
FAG-32	10/19/2010	cis-1,2-Dichloroethene	347	ug/L	
FAG-32	10/19/2010	Trichloroethene	1590	ug/L	
FAG-32	10/19/2010	Vinyl chloride	25	ug/L	U
FAG-32	4/28/2011	cis-1,2-Dichloroethene	396	ug/L	
FAG-32	4/28/2011	Trichloroethene	1690	ug/L	
FAG-32	4/28/2011	Vinyl chloride	20	ug/L	U
FAG-32	10/25/2011	cis-1,2-Dichloroethene	406	ug/L	
FAG-32	10/25/2011	Trichloroethene	1620	ug/L	
FAG-32	10/25/2011	Vinyl chloride	20	ug/L	U
FAG-32	5/1/2012	cis-1,2-Dichloroethene	401	ug/L	
FAG-32	5/1/2012	Trichloroethene	1670	ug/L	
FAG-32	5/1/2012	Vinyl chloride	1	ug/L	U
FAG-32	10/9/2012	cis-1,2-Dichloroethene	487	ug/L	
FAG-32	10/9/2012	Trichloroethene	1770	ug/L	
FAG-32	10/9/2012	Vinyl chloride	20	ug/L	U
FAG-32	5/16/2013	cis-1,2-Dichloroethene	389	ug/L	
FAG-32	5/16/2013	Trichloroethene	1380	ug/L	
FAG-32	5/16/2013	Vinyl chloride	20	ug/L	U
FAG-32	10/20/2016	cis-1,2-Dichloroethene	481	ug/L	
FAG-32	10/20/2016	Trichloroethene	1570	ug/L	
FAG-32	10/20/2016	Vinyl chloride	20	ug/L	U
FAG-32	5/31/2017	cis-1,2-Dichloroethene	448	ug/L	
FAG-32	5/31/2017	Trichloroethene	1520	ug/L	
FAG-32	5/31/2017	Vinyl chloride	20	ug/L	U
FAG-32	10/12/2017	cis-1,2-Dichloroethene	448	ug/L	
FAG-32	10/12/2017	Trichloroethene	1780	ug/L	
FAG-32	10/12/2017	Vinyl chloride	20	ug/L	U
FAG-32	10/10/2018	cis-1,2-Dichloroethene	476	ug/L	
FAG-32	10/10/2018	Trichloroethene	1920	ug/L	
FAG-32	10/10/2018	Vinyl chloride	20	ug/L	U
FAG-32	9/16/2020	cis-1,2-Dichloroethene	1	ug/L	U
FAG-32	9/16/2020	Trichloroethene	1	ug/L	U
FAG-32	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-32	5/19/2021	cis-1,2-Dichloroethene	43.7	ug/L	
FAG-32	5/19/2021	Trichloroethene	183	ug/L	
FAG-32	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-33	10/20/2008	cis-1,2-Dichloroethene	2.6	ug/L	
FAG-33	10/20/2008	Trichloroethene	19.5	ug/L	
FAG-33	10/20/2008	Vinyl chloride	1	ug/L	U
FAG-33	4/28/2009	cis-1,2-Dichloroethene	2.3	ug/L	
FAG-33	4/28/2009	Trichloroethene	20.5	ug/L	
FAG-33	4/28/2009	Vinyl chloride	1	ug/L	U
FAG-33	10/14/2009	cis-1,2-Dichloroethene	3	ug/L	
FAG-33	10/14/2009	Trichloroethene	20.2	ug/L	
FAG-33	10/14/2009	Vinyl chloride	1	ug/L	U
FAG-33	4/27/2010	cis-1,2-Dichloroethene	3	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-33	4/27/2010	Trichloroethene	26.6	ug/L	
FAG-33	4/27/2010	Vinyl chloride	1	ug/L	U
FAG-33	10/20/2010	cis-1,2-Dichloroethene	2.8	ug/L	
FAG-33	10/20/2010	Trichloroethene	26.1	ug/L	
FAG-33	10/20/2010	Vinyl chloride	1	ug/L	U
FAG-33	4/27/2011	cis-1,2-Dichloroethene	3.3	ug/L	
FAG-33	4/27/2011	Trichloroethene	29.2	ug/L	
FAG-33	4/27/2011	Vinyl chloride	1	ug/L	U
FAG-33	10/27/2011	cis-1,2-Dichloroethene	2.7	ug/L	
FAG-33	10/27/2011	Trichloroethene	20.2	ug/L	
FAG-33	10/27/2011	Vinyl chloride	1	ug/L	U
FAG-33	5/2/2012	cis-1,2-Dichloroethene	2.3	ug/L	
FAG-33	5/2/2012	Trichloroethene	19.7	ug/L	
FAG-33	5/2/2012	Vinyl chloride	1	ug/L	U
FAG-33	10/11/2012	cis-1,2-Dichloroethene	2.3	ug/L	
FAG-33	10/11/2012	Trichloroethene	17.3	ug/L	
FAG-33	10/11/2012	Vinyl chloride	1	ug/L	U
FAG-33	5/14/2013	cis-1,2-Dichloroethene	2.8	ug/L	
FAG-33	5/14/2013	Trichloroethene	23.9	ug/L	
FAG-33	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-33	10/18/2016	cis-1,2-Dichloroethene	3.5	ug/L	
FAG-33	10/18/2016	Trichloroethene	28.1	ug/L	
FAG-33	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-33	5/27/2017	cis-1,2-Dichloroethene	3.6	ug/L	
FAG-33	5/27/2017	Trichloroethene	31.7	ug/L	
FAG-33	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-33	10/8/2017	cis-1,2-Dichloroethene	3.3	ug/L	
FAG-33	10/8/2017	Trichloroethene	31	ug/L	
FAG-33	10/8/2017	Vinyl chloride	1	ug/L	U
FAG-33	10/9/2018	cis-1,2-Dichloroethene	3.7	ug/L	
FAG-33	10/9/2018	Trichloroethene	29.6	ug/L	
FAG-33	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-33	9/15/2020	cis-1,2-Dichloroethene	3.8	ug/L	
FAG-33	9/15/2020	Trichloroethene	28.3	ug/L	
FAG-33	9/15/2020	Vinyl chloride	1	ug/L	U
FAG-33	5/18/2021	cis-1,2-Dichloroethene	4.4	ug/L	
FAG-33	5/18/2021	Trichloroethene	28.9	ug/L	
FAG-33	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-34	10/22/2008	cis-1,2-Dichloroethene	442	ug/L	
FAG-34	10/22/2008	Trichloroethene	882	ug/L	
FAG-34	10/22/2008	Vinyl chloride	13.6	ug/L	
FAG-34	4/29/2009	cis-1,2-Dichloroethene	403	ug/L	
FAG-34	4/29/2009	Trichloroethene	992	ug/L	
FAG-34	4/29/2009	Vinyl chloride	6.9	ug/L	J
FAG-34	10/14/2009	cis-1,2-Dichloroethene	384	ug/L	
FAG-34	10/14/2009	Trichloroethene	804	ug/L	J
FAG-34	10/14/2009	Vinyl chloride	12.2	ug/L	J
FAG-34	4/27/2010	cis-1,2-Dichloroethene	399	ug/L	
FAG-34	4/27/2010	Trichloroethene	777	ug/L	
FAG-34	4/27/2010	Vinyl chloride	14.9	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-34	10/20/2010	cis-1,2-Dichloroethene	421	ug/L	
FAG-34	10/20/2010	Trichloroethene	712	ug/L	
FAG-34	10/20/2010	Vinyl chloride	15	ug/L	
FAG-34	4/27/2011	cis-1,2-Dichloroethene	380	ug/L	
FAG-34	4/27/2011	Trichloroethene	777	ug/L	
FAG-34	4/27/2011	Vinyl chloride	11.6	ug/L	J
FAG-34	10/27/2011	cis-1,2-Dichloroethene	345	ug/L	
FAG-34	10/27/2011	Trichloroethene	761	ug/L	
FAG-34	10/27/2011	Vinyl chloride	10	ug/L	U
FAG-34	5/2/2012	cis-1,2-Dichloroethene	341	ug/L	
FAG-34	5/2/2012	Trichloroethene	758	ug/L	
FAG-34	5/2/2012	Vinyl chloride	12.2	ug/L	
FAG-34	10/11/2012	cis-1,2-Dichloroethene	358	ug/L	
FAG-34	10/11/2012	Trichloroethene	820	ug/L	
FAG-34	10/11/2012	Vinyl chloride	6.2	ug/L	
FAG-34	5/15/2013	cis-1,2-Dichloroethene	337	ug/L	
FAG-34	5/15/2013	Trichloroethene	713	ug/L	
FAG-34	5/15/2013	Vinyl chloride	6.7	ug/L	
FAG-34	10/19/2016	cis-1,2-Dichloroethene	326	ug/L	
FAG-34	10/19/2016	Trichloroethene	574	ug/L	
FAG-34	10/19/2016	Vinyl chloride	10.6	ug/L	
FAG-34	5/26/2017	cis-1,2-Dichloroethene	330	ug/L	
FAG-34	5/26/2017	Trichloroethene	809	ug/L	
FAG-34	5/26/2017	Vinyl chloride	5.9	ug/L	
FAG-34	10/11/2017	cis-1,2-Dichloroethene	324	ug/L	
FAG-34	10/11/2017	Trichloroethene	644	ug/L	
FAG-34	10/11/2017	Vinyl chloride	6.8	ug/L	
FAG-34	10/10/2018	cis-1,2-Dichloroethene	320	ug/L	
FAG-34	10/10/2018	Trichloroethene	762	ug/L	
FAG-34	10/10/2018	Vinyl chloride	6.5	ug/L	
FAG-34	9/16/2020	cis-1,2-Dichloroethene	249	ug/L	
FAG-34	9/16/2020	Trichloroethene	500	ug/L	
FAG-34	9/16/2020	Vinyl chloride	5	ug/L	U
FAG-34	5/19/2021	cis-1,2-Dichloroethene	238	ug/L	
FAG-34	5/19/2021	Trichloroethene	462	ug/L	
FAG-34	5/19/2021	Vinyl chloride	5	ug/L	U
FAG-35	10/23/2008	cis-1,2-Dichloroethene	126	ug/L	
FAG-35	10/23/2008	Trichloroethene	484	ug/L	
FAG-35	10/23/2008	Vinyl chloride	1	ug/L	U
FAG-35	4/29/2009	cis-1,2-Dichloroethene	121	ug/L	
FAG-35	4/29/2009	Trichloroethene	510	ug/L	
FAG-35	4/29/2009	Vinyl chloride	10	ug/L	U
FAG-35	10/15/2009	cis-1,2-Dichloroethene	122	ug/L	
FAG-35	10/15/2009	Trichloroethene	542	ug/L	
FAG-35	10/15/2009	Vinyl chloride	1	ug/L	U
FAG-35	4/28/2010	cis-1,2-Dichloroethene	171	ug/L	
FAG-35	4/28/2010	Trichloroethene	602	ug/L	
FAG-35	4/28/2010	Vinyl chloride	1	ug/L	U
FAG-35	10/20/2010	cis-1,2-Dichloroethene	134	ug/L	
FAG-35	10/20/2010	Trichloroethene	446	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-35	10/20/2010	Vinyl chloride	10	ug/L	U
FAG-35	4/27/2011	cis-1,2-Dichloroethene	173	ug/L	
FAG-35	4/27/2011	Trichloroethene	583	ug/L	
FAG-35	4/27/2011	Vinyl chloride	10	ug/L	U
FAG-35	10/27/2011	cis-1,2-Dichloroethene	147	ug/L	
FAG-35	10/27/2011	Trichloroethene	499	ug/L	
FAG-35	10/27/2011	Vinyl chloride	10	ug/L	U
FAG-35	5/2/2012	cis-1,2-Dichloroethene	125	ug/L	
FAG-35	5/2/2012	Trichloroethene	436	ug/L	
FAG-35	5/2/2012	Vinyl chloride	1	ug/L	U
FAG-35	10/11/2012	cis-1,2-Dichloroethene	134	ug/L	
FAG-35	10/11/2012	Trichloroethene	467	ug/L	
FAG-35	10/11/2012	Vinyl chloride	5	ug/L	U
FAG-35	5/15/2013	cis-1,2-Dichloroethene	124	ug/L	
FAG-35	5/15/2013	Trichloroethene	429	ug/L	
FAG-35	5/15/2013	Vinyl chloride	5	ug/L	U
FAG-35	10/19/2016	cis-1,2-Dichloroethene	126	ug/L	
FAG-35	10/19/2016	Trichloroethene	516	ug/L	
FAG-35	10/19/2016	Vinyl chloride	5	ug/L	U
FAG-35	5/31/2017	cis-1,2-Dichloroethene	107	ug/L	
FAG-35	5/31/2017	Trichloroethene	432	ug/L	
FAG-35	5/31/2017	Vinyl chloride	5	ug/L	U
FAG-35	10/11/2017	cis-1,2-Dichloroethene	123	ug/L	
FAG-35	10/11/2017	Trichloroethene	543	ug/L	
FAG-35	10/11/2017	Vinyl chloride	5	ug/L	U
FAG-35	10/10/2018	cis-1,2-Dichloroethene	131	ug/L	
FAG-35	10/10/2018	Trichloroethene	597	ug/L	
FAG-35	10/10/2018	Vinyl chloride	5	ug/L	U
FAG-35	9/16/2020	cis-1,2-Dichloroethene	110	ug/L	
FAG-35	9/16/2020	Trichloroethene	512	ug/L	
FAG-35	9/16/2020	Vinyl chloride	5	ug/L	U
FAG-35	5/18/2021	cis-1,2-Dichloroethene	113	ug/L	
FAG-35	5/18/2021	Trichloroethene	488	ug/L	
FAG-35	5/18/2021	Vinyl chloride	5	ug/L	U
FAG-36	10/22/2008	cis-1,2-Dichloroethene	104	ug/L	
FAG-36	10/22/2008	Trichloroethene	565	ug/L	
FAG-36	10/22/2008	Vinyl chloride	5	ug/L	U
FAG-36	5/20/2009	cis-1,2-Dichloroethene	42.2	ug/L	
FAG-36	5/20/2009	Trichloroethene	166	ug/L	
FAG-36	5/20/2009	Vinyl chloride	1	ug/L	U
FAG-36	10/16/2009	cis-1,2-Dichloroethene	80.8	ug/L	
FAG-36	10/16/2009	Trichloroethene	366	ug/L	
FAG-36	10/16/2009	Vinyl chloride	5	ug/L	U
FAG-36	4/28/2010	cis-1,2-Dichloroethene	158	ug/L	
FAG-36	4/28/2010	Trichloroethene	477	ug/L	
FAG-36	4/28/2010	Vinyl chloride	10	ug/L	U
FAG-36	10/21/2010	cis-1,2-Dichloroethene	182	ug/L	
FAG-36	10/21/2010	Trichloroethene	286	ug/L	
FAG-36	10/21/2010	Vinyl chloride	2	ug/L	U
FAG-36	4/27/2011	cis-1,2-Dichloroethene	173	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-36	4/27/2011	Trichloroethene	594	ug/L	
FAG-36	4/27/2011	Vinyl chloride	10	ug/L	U
FAG-36	10/27/2011	cis-1,2-Dichloroethene	192	ug/L	
FAG-36	10/27/2011	Trichloroethene	524	ug/L	
FAG-36	10/27/2011	Vinyl chloride	10	ug/L	U
FAG-36	5/3/2012	cis-1,2-Dichloroethene	155	ug/L	
FAG-36	5/3/2012	Trichloroethene	456	ug/L	
FAG-36	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-36	10/11/2012	cis-1,2-Dichloroethene	183	ug/L	
FAG-36	10/11/2012	Trichloroethene	508	ug/L	
FAG-36	10/11/2012	Vinyl chloride	10	ug/L	U
FAG-36	5/15/2013	cis-1,2-Dichloroethene	234	ug/L	
FAG-36	5/15/2013	Trichloroethene	567	ug/L	
FAG-36	5/15/2013	Vinyl chloride	10	ug/L	U
FAG-36	10/20/2016	cis-1,2-Dichloroethene	235	ug/L	
FAG-36	10/20/2016	Trichloroethene	566	ug/L	
FAG-36	10/20/2016	Vinyl chloride	20	ug/L	U
FAG-36	5/31/2017	cis-1,2-Dichloroethene	280	ug/L	
FAG-36	5/31/2017	Trichloroethene	585	ug/L	
FAG-36	5/31/2017	Vinyl chloride	10	ug/L	U
FAG-36	10/11/2017	cis-1,2-Dichloroethene	197	ug/L	
FAG-36	10/11/2017	Trichloroethene	676	ug/L	
FAG-36	10/11/2017	Vinyl chloride	10	ug/L	U
FAG-36	10/10/2018	cis-1,2-Dichloroethene	257	ug/L	
FAG-36	10/10/2018	Trichloroethene	672	ug/L	
FAG-36	10/10/2018	Vinyl chloride	10	ug/L	U
FAG-36	9/16/2020	cis-1,2-Dichloroethene	229	ug/L	
FAG-36	9/16/2020	Trichloroethene	531	ug/L	
FAG-36	9/16/2020	Vinyl chloride	10	ug/L	U
FAG-36	5/19/2021	cis-1,2-Dichloroethene	240	ug/L	
FAG-36	5/19/2021	Trichloroethene	535	ug/L	
FAG-36	5/19/2021	Vinyl chloride	10	ug/L	U
FAG-43	10/21/2008	cis-1,2-Dichloroethene	106	ug/L	
FAG-43	10/21/2008	Trichloroethene	338	ug/L	
FAG-43	10/21/2008	Vinyl chloride	1	ug/L	U
FAG-43	4/28/2009	cis-1,2-Dichloroethene	87.1	ug/L	
FAG-43	4/28/2009	Trichloroethene	275	ug/L	
FAG-43	4/28/2009	Vinyl chloride	1	ug/L	U
FAG-43	10/15/2009	cis-1,2-Dichloroethene	110	ug/L	
FAG-43	10/15/2009	Trichloroethene	438	ug/L	
FAG-43	10/15/2009	Vinyl chloride	1	ug/L	U
FAG-43	4/30/2010	cis-1,2-Dichloroethene	105	ug/L	
FAG-43	4/30/2010	Trichloroethene	330	ug/L	
FAG-43	4/30/2010	Vinyl chloride	1	ug/L	U
FAG-43	10/19/2010	cis-1,2-Dichloroethene	106	ug/L	
FAG-43	10/19/2010	Trichloroethene	395	ug/L	
FAG-43	10/19/2010	Vinyl chloride	5	ug/L	U
FAG-43	4/26/2011	cis-1,2-Dichloroethene	82.1	ug/L	
FAG-43	4/26/2011	Trichloroethene	313	ug/L	
FAG-43	4/26/2011	Vinyl chloride	5	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-43	10/26/2011	cis-1,2-Dichloroethene	91.8	ug/L	
FAG-43	10/26/2011	Trichloroethene	289	ug/L	
FAG-43	10/26/2011	Vinyl chloride	5	ug/L	U
FAG-43	5/3/2012	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/3/2012	Trichloroethene	1	ug/L	U
FAG-43	5/3/2012	Vinyl chloride	5	ug/L	U
FAG-43	10/10/2012	cis-1,2-Dichloroethene	3.2	ug/L	
FAG-43	10/10/2012	Trichloroethene	12.2	ug/L	
FAG-43	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-43	5/15/2013	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/15/2013	Trichloroethene	1	ug/L	U
FAG-43	5/15/2013	Vinyl chloride	1	ug/L	U
FAG-43	10/19/2016	cis-1,2-Dichloroethene	9.9	ug/L	
FAG-43	10/19/2016	Trichloroethene	50.6	ug/L	
FAG-43	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-43	5/31/2017	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/31/2017	Trichloroethene	1	ug/L	U
FAG-43	5/31/2017	Vinyl chloride	1	ug/L	U
FAG-43	10/11/2017	cis-1,2-Dichloroethene	11.7	ug/L	
FAG-43	10/11/2017	Trichloroethene	34.9	ug/L	
FAG-43	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-43	10/10/2018	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	10/10/2018	Trichloroethene	1	ug/L	U
FAG-43	10/10/2018	Vinyl chloride	1	ug/L	U
FAG-43	9/16/2020	cis-1,2-Dichloroethene	23.2	ug/L	
FAG-43	9/16/2020	Trichloroethene	66.4	ug/L	
FAG-43	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-43	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/18/2021	Trichloroethene	1	ug/L	U
FAG-43	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-46	10/21/2008	cis-1,2-Dichloroethene	12.8	ug/L	
FAG-46	10/21/2008	Trichloroethene	202	ug/L	
FAG-46	10/21/2008	Vinyl chloride	1	ug/L	U
FAG-46	4/28/2009	cis-1,2-Dichloroethene	9.1	ug/L	
FAG-46	4/28/2009	Trichloroethene	167	ug/L	
FAG-46	4/28/2009	Vinyl chloride	1	ug/L	U
FAG-46	10/15/2009	cis-1,2-Dichloroethene	9.1	ug/L	
FAG-46	10/15/2009	Trichloroethene	119	ug/L	
FAG-46	10/15/2009	Vinyl chloride	1	ug/L	U
FAG-46	4/29/2010	cis-1,2-Dichloroethene	7.4	ug/L	
FAG-46	4/29/2010	Trichloroethene	107	ug/L	
FAG-46	4/29/2010	Vinyl chloride	1	ug/L	U
FAG-46	10/19/2010	cis-1,2-Dichloroethene	9.8	ug/L	
FAG-46	10/19/2010	Trichloroethene	146	ug/L	
FAG-46	10/19/2010	Vinyl chloride	1	ug/L	U
FAG-46	4/26/2011	cis-1,2-Dichloroethene	7	ug/L	
FAG-46	4/26/2011	Trichloroethene	134	ug/L	
FAG-46	4/26/2011	Vinyl chloride	1	ug/L	U
FAG-46	10/27/2011	cis-1,2-Dichloroethene	6.9	ug/L	
FAG-46	10/27/2011	Trichloroethene	135	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-46	10/27/2011	Vinyl chloride	1	ug/L	U
FAG-46	5/3/2012	cis-1,2-Dichloroethene	4.6	ug/L	
FAG-46	5/3/2012	Trichloroethene	103	ug/L	
FAG-46	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-46	10/10/2012	cis-1,2-Dichloroethene	5.1	ug/L	
FAG-46	10/10/2012	Trichloroethene	130	ug/L	
FAG-46	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-46	5/14/2013	cis-1,2-Dichloroethene	3.5	ug/L	
FAG-46	5/14/2013	Trichloroethene	70.2	ug/L	
FAG-46	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-46	10/18/2016	cis-1,2-Dichloroethene	2.8	ug/L	
FAG-46	10/18/2016	Trichloroethene	50.6	ug/L	
FAG-46	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-46	5/27/2017	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-46	5/27/2017	Trichloroethene	47.9	ug/L	
FAG-46	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-46	10/11/2017	cis-1,2-Dichloroethene	4.7	ug/L	
FAG-46	10/11/2017	Trichloroethene	53.5	ug/L	
FAG-46	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-46	10/9/2018	cis-1,2-Dichloroethene	3.6	ug/L	
FAG-46	10/9/2018	Trichloroethene	56.9	ug/L	
FAG-46	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-46	9/16/2020	cis-1,2-Dichloroethene	5.3	ug/L	
FAG-46	9/16/2020	Trichloroethene	39	ug/L	
FAG-46	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-46	5/18/2021	cis-1,2-Dichloroethene	4	ug/L	
FAG-46	5/18/2021	Trichloroethene	27.7	ug/L	
FAG-46	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-47	10/21/2008	cis-1,2-Dichloroethene	14.3	ug/L	
FAG-47	10/21/2008	Trichloroethene	160	ug/L	
FAG-47	10/21/2008	Vinyl chloride	1	ug/L	U
FAG-47	4/29/2009	cis-1,2-Dichloroethene	9.9	ug/L	
FAG-47	4/29/2009	Trichloroethene	66.5	ug/L	
FAG-47	4/29/2009	Vinyl chloride	1	ug/L	U
FAG-47	10/13/2009	cis-1,2-Dichloroethene	12.5	ug/L	
FAG-47	10/13/2009	Trichloroethene	131	ug/L	
FAG-47	10/13/2009	Vinyl chloride	1	ug/L	U
FAG-47	4/27/2010	cis-1,2-Dichloroethene	9.3	ug/L	
FAG-47	4/27/2010	Trichloroethene	119	ug/L	
FAG-47	4/27/2010	Vinyl chloride	1	ug/L	U
FAG-47	10/20/2010	cis-1,2-Dichloroethene	11.9	ug/L	
FAG-47	10/20/2010	Trichloroethene	165	ug/L	
FAG-47	10/20/2010	Vinyl chloride	1	ug/L	U
FAG-47	4/27/2011	cis-1,2-Dichloroethene	9.5	ug/L	
FAG-47	4/27/2011	Trichloroethene	140	ug/L	
FAG-47	4/27/2011	Vinyl chloride	1	ug/L	U
FAG-47	10/27/2011	cis-1,2-Dichloroethene	8.8	ug/L	
FAG-47	10/27/2011	Trichloroethene	136	ug/L	
FAG-47	10/27/2011	Vinyl chloride	1	ug/L	U
FAG-47	5/3/2012	cis-1,2-Dichloroethene	9.1	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-47	5/3/2012	Trichloroethene	116	ug/L	
FAG-47	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-47	10/9/2012	cis-1,2-Dichloroethene	9.7	ug/L	
FAG-47	10/9/2012	Trichloroethene	122	ug/L	
FAG-47	10/9/2012	Vinyl chloride	1	ug/L	U
FAG-47	5/14/2013	cis-1,2-Dichloroethene	9.9	ug/L	
FAG-47	5/14/2013	Trichloroethene	93.4	ug/L	
FAG-47	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-47	10/18/2016	cis-1,2-Dichloroethene	10.6	ug/L	
FAG-47	10/18/2016	Trichloroethene	76.9	ug/L	
FAG-47	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-47	5/27/2017	cis-1,2-Dichloroethene	7.7	ug/L	
FAG-47	5/27/2017	Trichloroethene	69.2	ug/L	
FAG-47	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-47	10/8/2017	cis-1,2-Dichloroethene	11.3	ug/L	
FAG-47	10/8/2017	Trichloroethene	103	ug/L	
FAG-47	10/8/2017	Vinyl chloride	1	ug/L	U
FAG-47	10/9/2018	cis-1,2-Dichloroethene	8.6	ug/L	
FAG-47	10/9/2018	Trichloroethene	63.3	ug/L	
FAG-47	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-47	9/15/2020	cis-1,2-Dichloroethene	7.9	ug/L	
FAG-47	9/15/2020	Trichloroethene	97.9	ug/L	
FAG-47	9/15/2020	Vinyl chloride	1	ug/L	U
FAG-47	5/18/2021	cis-1,2-Dichloroethene	5.9	ug/L	
FAG-47	5/18/2021	Trichloroethene	55.4	ug/L	
FAG-47	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-50	10/21/2008	cis-1,2-Dichloroethene	28.2	ug/L	
FAG-50	10/21/2008	Trichloroethene	4130	ug/L	
FAG-50	10/21/2008	Vinyl chloride	1	ug/L	U
FAG-50	5/20/2009	cis-1,2-Dichloroethene	54.8	ug/L	
FAG-50	5/20/2009	Trichloroethene	7030	ug/L	
FAG-50	5/20/2009	Vinyl chloride	1	ug/L	U
FAG-50	12/16/2009	cis-1,2-Dichloroethene	30.8	ug/L	
FAG-50	12/16/2009	Trichloroethene	3220	ug/L	
FAG-50	12/16/2009	Vinyl chloride	1	ug/L	U
FAG-50	4/28/2010	cis-1,2-Dichloroethene	32.8	ug/L	
FAG-50	4/28/2010	Trichloroethene	3590	ug/L	
FAG-50	4/28/2010	Vinyl chloride	1	ug/L	U
FAG-50	4/27/2011	cis-1,2-Dichloroethene	20	ug/L	U
FAG-50	4/27/2011	Trichloroethene	1040	ug/L	
FAG-50	4/27/2011	Vinyl chloride	20	ug/L	U
FAG-50	10/25/2011	cis-1,2-Dichloroethene	20	ug/L	U
FAG-50	10/25/2011	Trichloroethene	1350	ug/L	
FAG-50	10/25/2011	Vinyl chloride	20	ug/L	U
FAG-50	5/3/2012	cis-1,2-Dichloroethene	14.2	ug/L	
FAG-50	5/3/2012	Trichloroethene	957	ug/L	
FAG-50	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-50	10/10/2012	cis-1,2-Dichloroethene	20	ug/L	U
FAG-50	10/10/2012	Trichloroethene	1290	ug/L	
FAG-50	10/10/2012	Vinyl chloride	20	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-50	5/15/2013	cis-1,2-Dichloroethene	26.3	ug/L	
FAG-50	5/15/2013	Trichloroethene	2160	ug/L	
FAG-50	5/15/2013	Vinyl chloride	20	ug/L	U
FAG-50	10/20/2016	cis-1,2-Dichloroethene	91.5	ug/L	
FAG-50	10/20/2016	Trichloroethene	2610	ug/L	
FAG-50	10/20/2016	Vinyl chloride	20	ug/L	U
FAG-50	5/31/2017	cis-1,2-Dichloroethene	49.4	ug/L	
FAG-50	5/31/2017	Trichloroethene	2610	ug/L	
FAG-50	5/31/2017	Vinyl chloride	20	ug/L	U
FAG-50	5/19/2021	cis-1,2-Dichloroethene	62.4	ug/L	
FAG-50	5/19/2021	Trichloroethene	3220	ug/L	
FAG-50	5/19/2021	Vinyl chloride	20	ug/L	U
FAG-56	10/20/2008	cis-1,2-Dichloroethene	72.8	ug/L	
FAG-56	10/20/2008	Trichloroethene	8.3	ug/L	
FAG-56	10/20/2008	Vinyl chloride	1	ug/L	U
FAG-56	4/28/2009	cis-1,2-Dichloroethene	68.5	ug/L	
FAG-56	4/28/2009	Trichloroethene	8.2	ug/L	
FAG-56	4/28/2009	Vinyl chloride	1	ug/L	U
FAG-56	10/13/2009	cis-1,2-Dichloroethene	83.8	ug/L	
FAG-56	10/13/2009	Trichloroethene	8.2	ug/L	
FAG-56	10/13/2009	Vinyl chloride	1	ug/L	U
FAG-56	4/28/2010	cis-1,2-Dichloroethene	84.1	ug/L	
FAG-56	4/28/2010	Trichloroethene	12.4	ug/L	
FAG-56	4/28/2010	Vinyl chloride	1	ug/L	U
FAG-56	10/20/2010	cis-1,2-Dichloroethene	101	ug/L	
FAG-56	10/20/2010	Trichloroethene	6.5	ug/L	
FAG-56	10/20/2010	Vinyl chloride	1	ug/L	U
FAG-56	4/27/2011	cis-1,2-Dichloroethene	98.5	ug/L	
FAG-56	4/27/2011	Trichloroethene	8	ug/L	
FAG-56	4/27/2011	Vinyl chloride	1	ug/L	U
FAG-56	10/25/2011	cis-1,2-Dichloroethene	124	ug/L	
FAG-56	10/25/2011	Trichloroethene	8.9	ug/L	
FAG-56	10/25/2011	Vinyl chloride	1	ug/L	U
FAG-56	5/1/2012	cis-1,2-Dichloroethene	117	ug/L	
FAG-56	5/1/2012	Trichloroethene	9.4	ug/L	
FAG-56	5/1/2012	Vinyl chloride	1	ug/L	U
FAG-56	10/9/2012	cis-1,2-Dichloroethene	114	ug/L	
FAG-56	10/9/2012	Trichloroethene	8.6	ug/L	
FAG-56	10/9/2012	Vinyl chloride	1	ug/L	U
FAG-56	5/14/2013	cis-1,2-Dichloroethene	122	ug/L	
FAG-56	5/14/2013	Trichloroethene	9.6	ug/L	
FAG-56	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-56	10/18/2016	cis-1,2-Dichloroethene	105	ug/L	
FAG-56	10/18/2016	Trichloroethene	15.1	ug/L	J
FAG-56	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-56	5/27/2017	cis-1,2-Dichloroethene	115	ug/L	
FAG-56	5/27/2017	Trichloroethene	9.3	ug/L	
FAG-56	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-56	10/10/2017	cis-1,2-Dichloroethene	120	ug/L	
FAG-56	10/10/2017	Trichloroethene	9.5	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-56	10/10/2017	Vinyl chloride	1	ug/L	U
FAG-56	10/9/2018	cis-1,2-Dichloroethene	113	ug/L	
FAG-56	10/9/2018	Trichloroethene	9.6	ug/L	
FAG-56	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-56	9/15/2020	cis-1,2-Dichloroethene	72.2	ug/L	
FAG-56	9/15/2020	Trichloroethene	5.9	ug/L	
FAG-56	9/15/2020	Vinyl chloride	1	ug/L	U
FAG-56	5/18/2021	cis-1,2-Dichloroethene	76.8	ug/L	
FAG-56	5/18/2021	Trichloroethene	7.8	ug/L	
FAG-56	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-62	10/23/2008	cis-1,2-Dichloroethene	103	ug/L	
FAG-62	10/23/2008	Trichloroethene	413	ug/L	
FAG-62	10/23/2008	Vinyl chloride	1	ug/L	U
FAG-62	4/29/2009	cis-1,2-Dichloroethene	26.9	ug/L	
FAG-62	4/29/2009	Trichloroethene	121	ug/L	
FAG-62	4/29/2009	Vinyl chloride	2	ug/L	U
FAG-62	10/13/2009	cis-1,2-Dichloroethene	33.2	ug/L	
FAG-62	10/13/2009	Trichloroethene	126	ug/L	
FAG-62	10/13/2009	Vinyl chloride	1	ug/L	U
FAG-62	4/29/2010	cis-1,2-Dichloroethene	129	ug/L	
FAG-62	4/29/2010	Trichloroethene	462	ug/L	
FAG-62	4/29/2010	Vinyl chloride	1	ug/L	U
FAG-62	10/20/2010	cis-1,2-Dichloroethene	107	ug/L	
FAG-62	10/20/2010	Trichloroethene	294	ug/L	
FAG-62	10/20/2010	Vinyl chloride	2	ug/L	U
FAG-62	4/27/2011	cis-1,2-Dichloroethene	15.3	ug/L	
FAG-62	4/27/2011	Trichloroethene	51.7	ug/L	
FAG-62	4/27/2011	Vinyl chloride	1	ug/L	U
FAG-62	10/26/2011	cis-1,2-Dichloroethene	193	ug/L	
FAG-62	10/26/2011	Trichloroethene	185	ug/L	
FAG-62	10/26/2011	Vinyl chloride	1	ug/L	U
FAG-62	5/1/2012	cis-1,2-Dichloroethene	61.6	ug/L	
FAG-62	5/1/2012	Trichloroethene	64.9	ug/L	
FAG-62	5/1/2012	Vinyl chloride	1	ug/L	U
FAG-62	10/10/2012	cis-1,2-Dichloroethene	456	ug/L	
FAG-62	10/10/2012	Trichloroethene	103	ug/L	
FAG-62	10/10/2012	Vinyl chloride	2	ug/L	U
FAG-62	5/15/2013	cis-1,2-Dichloroethene	277	ug/L	J
FAG-62	5/15/2013	Trichloroethene	167	ug/L	
FAG-62	5/15/2013	Vinyl chloride	5	ug/L	U
FAG-62	10/19/2016	cis-1,2-Dichloroethene	13.1	ug/L	
FAG-62	10/19/2016	Trichloroethene	33.6	ug/L	
FAG-62	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-62	5/27/2017	cis-1,2-Dichloroethene	3.6	ug/L	
FAG-62	5/27/2017	Trichloroethene	33.6	ug/L	
FAG-62	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-62	5/18/2021	cis-1,2-Dichloroethene	13.8	ug/L	
FAG-62	5/18/2021	Trichloroethene	23.9	ug/L	
FAG-62	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-73	10/21/2008	cis-1,2-Dichloroethene	2780	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-73	10/21/2008	Trichloroethene	1130	ug/L	
FAG-73	10/21/2008	Vinyl chloride	965	ug/L	
FAG-73	5/21/2009	cis-1,2-Dichloroethene	951	ug/L	
FAG-73	5/21/2009	Trichloroethene	429	ug/L	
FAG-73	5/21/2009	Vinyl chloride	778	ug/L	
FAG-73	10/14/2009	cis-1,2-Dichloroethene	1120	ug/L	
FAG-73	10/14/2009	Trichloroethene	358	ug/L	
FAG-73	10/14/2009	Vinyl chloride	896	ug/L	
FAG-73	4/28/2010	cis-1,2-Dichloroethene	1390	ug/L	
FAG-73	4/28/2010	Trichloroethene	387	ug/L	
FAG-73	4/28/2010	Vinyl chloride	1060	ug/L	
FAG-73	10/20/2010	cis-1,2-Dichloroethene	1700	ug/L	
FAG-73	10/20/2010	Trichloroethene	514	ug/L	
FAG-73	10/20/2010	Vinyl chloride	488	ug/L	
FAG-73	4/28/2011	cis-1,2-Dichloroethene	143	ug/L	
FAG-73	4/28/2011	Trichloroethene	73	ug/L	
FAG-73	4/28/2011	Vinyl chloride	152	ug/L	
FAG-73	10/26/2011	cis-1,2-Dichloroethene	357	ug/L	
FAG-73	10/26/2011	Trichloroethene	82.3	ug/L	
FAG-73	10/26/2011	Vinyl chloride	616	ug/L	
FAG-73	5/1/2012	cis-1,2-Dichloroethene	396	ug/L	
FAG-73	5/1/2012	Trichloroethene	103	ug/L	
FAG-73	5/1/2012	Vinyl chloride	471	ug/L	
FAG-73	10/10/2012	cis-1,2-Dichloroethene	561	ug/L	
FAG-73	10/10/2012	Trichloroethene	163	ug/L	
FAG-73	10/10/2012	Vinyl chloride	415	ug/L	
FAG-73	5/16/2013	cis-1,2-Dichloroethene	425	ug/L	
FAG-73	5/16/2013	Trichloroethene	215	ug/L	
FAG-73	5/16/2013	Vinyl chloride	510	ug/L	
FAG-73	10/19/2016	cis-1,2-Dichloroethene	282	ug/L	
FAG-73	10/19/2016	Trichloroethene	249	ug/L	
FAG-73	10/19/2016	Vinyl chloride	212	ug/L	
FAG-73	5/31/2017	cis-1,2-Dichloroethene	96.6	ug/L	
FAG-73	5/31/2017	Trichloroethene	58.3	ug/L	
FAG-73	5/31/2017	Vinyl chloride	177	ug/L	
FAG-73	10/11/2017	cis-1,2-Dichloroethene	260	ug/L	
FAG-73	10/11/2017	Trichloroethene	171	ug/L	
FAG-73	10/11/2017	Vinyl chloride	140	ug/L	
FAG-73	10/10/2018	cis-1,2-Dichloroethene	305	ug/L	
FAG-73	10/10/2018	Trichloroethene	242	ug/L	
FAG-73	10/10/2018	Vinyl chloride	212	ug/L	
FAG-73	9/16/2020	cis-1,2-Dichloroethene	192	ug/L	
FAG-73	9/16/2020	Trichloroethene	132	ug/L	
FAG-73	9/16/2020	Vinyl chloride	33	ug/L	
FAG-73	5/19/2021	cis-1,2-Dichloroethene	45.8	ug/L	
FAG-73	5/19/2021	Trichloroethene	18.8	ug/L	
FAG-73	5/19/2021	Vinyl chloride	4.2	ug/L	
FAG-74	10/21/2008	cis-1,2-Dichloroethene	2540	ug/L	
FAG-74	10/21/2008	Trichloroethene	2720	ug/L	
FAG-74	10/21/2008	Vinyl chloride	188	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-74	5/21/2009	cis-1,2-Dichloroethene	2960	ug/L	
FAG-74	5/21/2009	Trichloroethene	3950	ug/L	
FAG-74	5/21/2009	Vinyl chloride	213	ug/L	
FAG-74	10/14/2009	cis-1,2-Dichloroethene	2410	ug/L	
FAG-74	10/14/2009	Trichloroethene	2760	ug/L	
FAG-74	10/14/2009	Vinyl chloride	222	ug/L	
FAG-74	4/28/2010	cis-1,2-Dichloroethene	1990	ug/L	
FAG-74	4/28/2010	Trichloroethene	2560	ug/L	
FAG-74	4/28/2010	Vinyl chloride	181	ug/L	
FAG-74	10/20/2010	cis-1,2-Dichloroethene	1210	ug/L	
FAG-74	10/20/2010	Trichloroethene	1070	ug/L	
FAG-74	10/20/2010	Vinyl chloride	134	ug/L	
FAG-74	4/28/2011	cis-1,2-Dichloroethene	1200	ug/L	
FAG-74	4/28/2011	Trichloroethene	1430	ug/L	
FAG-74	4/28/2011	Vinyl chloride	161	ug/L	
FAG-74	10/26/2011	cis-1,2-Dichloroethene	1140	ug/L	
FAG-74	10/26/2011	Trichloroethene	893	ug/L	
FAG-74	10/26/2011	Vinyl chloride	151	ug/L	
FAG-74	5/1/2012	cis-1,2-Dichloroethene	908	ug/L	
FAG-74	5/1/2012	Trichloroethene	770	ug/L	
FAG-74	5/1/2012	Vinyl chloride	146	ug/L	
FAG-74	10/9/2012	cis-1,2-Dichloroethene	875	ug/L	
FAG-74	10/9/2012	Trichloroethene	575	ug/L	
FAG-74	10/9/2012	Vinyl chloride	148	ug/L	
FAG-74	5/16/2013	cis-1,2-Dichloroethene	1100	ug/L	
FAG-74	5/16/2013	Trichloroethene	1120	ug/L	
FAG-74	5/16/2013	Vinyl chloride	149	ug/L	
FAG-74	10/20/2016	cis-1,2-Dichloroethene	321	ug/L	
FAG-74	10/20/2016	Trichloroethene	200	ug/L	
FAG-74	10/20/2016	Vinyl chloride	75	ug/L	
FAG-74	5/26/2017	cis-1,2-Dichloroethene	549	ug/L	
FAG-74	5/26/2017	Trichloroethene	789	ug/L	
FAG-74	5/26/2017	Vinyl chloride	75.2	ug/L	
FAG-74	10/12/2017	cis-1,2-Dichloroethene	254	ug/L	
FAG-74	10/12/2017	Trichloroethene	101	ug/L	
FAG-74	10/12/2017	Vinyl chloride	44	ug/L	
FAG-74	10/10/2018	cis-1,2-Dichloroethene	223	ug/L	
FAG-74	10/10/2018	Trichloroethene	123	ug/L	
FAG-74	10/10/2018	Vinyl chloride	31.1	ug/L	
FAG-74	9/17/2020	cis-1,2-Dichloroethene	113	ug/L	
FAG-74	9/17/2020	Trichloroethene	37.5	ug/L	
FAG-74	9/17/2020	Vinyl chloride	11.3	ug/L	
FAG-74	5/21/2021	cis-1,2-Dichloroethene	179	ug/L	
FAG-74	5/21/2021	Trichloroethene	201	ug/L	
FAG-74	5/21/2021	Vinyl chloride	18.9	ug/L	
FAG-85	10/23/2008	cis-1,2-Dichloroethene	350	ug/L	
FAG-85	10/23/2008	Trichloroethene	244	ug/L	
FAG-85	10/23/2008	Vinyl chloride	5	ug/L	U
FAG-85	5/20/2009	cis-1,2-Dichloroethene	71.1	ug/L	J
FAG-85	5/20/2009	Trichloroethene	161	ug/L	J

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-85	5/20/2009	Vinyl chloride	10	ug/L	U
FAG-85	10/16/2009	cis-1,2-Dichloroethene	172	ug/L	
FAG-85	10/16/2009	Trichloroethene	580	ug/L	
FAG-85	10/16/2009	Vinyl chloride	5	ug/L	U
FAG-85	4/30/2010	cis-1,2-Dichloroethene	105	ug/L	
FAG-85	4/30/2010	Trichloroethene	177	ug/L	
FAG-85	4/30/2010	Vinyl chloride	1	ug/L	U
FAG-85	10/19/2010	cis-1,2-Dichloroethene	1	ug/L	U
FAG-85	10/19/2010	Trichloroethene	6.4	ug/L	
FAG-85	10/19/2010	Vinyl chloride	1	ug/L	U
FAG-85	4/27/2011	cis-1,2-Dichloroethene	231	ug/L	
FAG-85	4/27/2011	Trichloroethene	692	ug/L	
FAG-85	4/27/2011	Vinyl chloride	3.3	ug/L	
FAG-85	10/25/2011	cis-1,2-Dichloroethene	189	ug/L	J
FAG-85	10/25/2011	Trichloroethene	650	ug/L	J
FAG-85	10/25/2011	Vinyl chloride	20	ug/L	U
FAG-85	5/2/2012	cis-1,2-Dichloroethene	182	ug/L	
FAG-85	5/2/2012	Trichloroethene	637	ug/L	
FAG-85	5/2/2012	Vinyl chloride	20	ug/L	U
FAG-85	10/9/2012	cis-1,2-Dichloroethene	216	ug/L	
FAG-85	10/9/2012	Trichloroethene	671	ug/L	
FAG-85	10/9/2012	Vinyl chloride	5	ug/L	U
FAG-85	5/15/2013	cis-1,2-Dichloroethene	200	ug/L	
FAG-85	5/15/2013	Trichloroethene	596	ug/L	
FAG-85	5/15/2013	Vinyl chloride	5	ug/L	U
FAG-85	10/19/2016	cis-1,2-Dichloroethene	48.9	ug/L	
FAG-85	10/19/2016	Trichloroethene	146	ug/L	
FAG-85	10/19/2016	Vinyl chloride	5	ug/L	U
FAG-85	5/31/2017	cis-1,2-Dichloroethene	170	ug/L	
FAG-85	5/31/2017	Trichloroethene	527	ug/L	
FAG-85	5/31/2017	Vinyl chloride	2	ug/L	U
FAG-85	10/11/2017	cis-1,2-Dichloroethene	135	ug/L	
FAG-85	10/11/2017	Trichloroethene	442	ug/L	
FAG-85	10/11/2017	Vinyl chloride	10	ug/L	U
FAG-85	10/11/2018	cis-1,2-Dichloroethene	221	ug/L	
FAG-85	10/11/2018	Trichloroethene	794	ug/L	
FAG-85	10/11/2018	Vinyl chloride	2.5	ug/L	
FAG-85	9/17/2020	cis-1,2-Dichloroethene	216	ug/L	
FAG-85	9/17/2020	Trichloroethene	345	ug/L	
FAG-85	9/17/2020	Vinyl chloride	10	ug/L	U
FAG-85	5/21/2021	cis-1,2-Dichloroethene	204	ug/L	
FAG-85	5/21/2021	Trichloroethene	610	ug/L	
FAG-85	5/21/2021	Vinyl chloride	37.2	ug/L	
FAG-88	10/20/2008	cis-1,2-Dichloroethene	4.1	ug/L	
FAG-88	10/20/2008	Trichloroethene	11.3	ug/L	
FAG-88	10/20/2008	Vinyl chloride	1	ug/L	U
FAG-88	4/28/2009	cis-1,2-Dichloroethene	3.8	ug/L	
FAG-88	4/28/2009	Trichloroethene	11.9	ug/L	
FAG-88	4/28/2009	Vinyl chloride	1	ug/L	U
FAG-88	10/13/2009	cis-1,2-Dichloroethene	4.1	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-88	10/13/2009	Trichloroethene	11.7	ug/L	
FAG-88	10/13/2009	Vinyl chloride	1	ug/L	U
FAG-88	4/27/2010	cis-1,2-Dichloroethene	4.3	ug/L	
FAG-88	4/27/2010	Trichloroethene	12.6	ug/L	
FAG-88	4/27/2010	Vinyl chloride	1	ug/L	U
FAG-88	10/19/2010	cis-1,2-Dichloroethene	4.1	ug/L	
FAG-88	10/19/2010	Trichloroethene	13	ug/L	
FAG-88	10/19/2010	Vinyl chloride	1	ug/L	U
FAG-88	5/5/2011	cis-1,2-Dichloroethene	3.4	ug/L	
FAG-88	5/5/2011	Trichloroethene	10.8	ug/L	
FAG-88	5/5/2011	Vinyl chloride	1	ug/L	U
FAG-88	10/25/2011	cis-1,2-Dichloroethene	3.2	ug/L	
FAG-88	10/25/2011	Trichloroethene	9.3	ug/L	
FAG-88	10/25/2011	Vinyl chloride	1	ug/L	U
FAG-88	5/2/2012	cis-1,2-Dichloroethene	2.5	ug/L	
FAG-88	5/2/2012	Trichloroethene	8.5	ug/L	
FAG-88	5/2/2012	Vinyl chloride	1	ug/L	U
FAG-88	10/9/2012	cis-1,2-Dichloroethene	2.4	ug/L	
FAG-88	10/9/2012	Trichloroethene	7.3	ug/L	
FAG-88	10/9/2012	Vinyl chloride	1	ug/L	U
FAG-88	5/14/2013	cis-1,2-Dichloroethene	2.5	ug/L	
FAG-88	5/14/2013	Trichloroethene	6.4	ug/L	
FAG-88	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-88	10/18/2016	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-88	10/18/2016	Trichloroethene	7.1	ug/L	
FAG-88	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-88	5/24/2017	cis-1,2-Dichloroethene	2	ug/L	
FAG-88	5/24/2017	Trichloroethene	6.8	ug/L	
FAG-88	5/24/2017	Vinyl chloride	1	ug/L	U
FAG-88	10/11/2017	cis-1,2-Dichloroethene	1.8	ug/L	
FAG-88	10/11/2017	Trichloroethene	5.9	ug/L	
FAG-88	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-88	10/11/2018	cis-1,2-Dichloroethene	1.6	ug/L	
FAG-88	10/11/2018	Trichloroethene	5.7	ug/L	
FAG-88	10/11/2018	Vinyl chloride	1	ug/L	U
FAG-88	9/16/2020	cis-1,2-Dichloroethene	2.1	ug/L	
FAG-88	9/16/2020	Trichloroethene	7.8	ug/L	
FAG-88	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-88	5/19/2021	cis-1,2-Dichloroethene	1.6	ug/L	
FAG-88	5/19/2021	Trichloroethene	6.5	ug/L	
FAG-88	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-89	10/21/2008	cis-1,2-Dichloroethene	1.9	ug/L	
FAG-89	10/21/2008	Trichloroethene	17.7	ug/L	
FAG-89	10/21/2008	Vinyl chloride	1	ug/L	U
FAG-89	4/28/2009	cis-1,2-Dichloroethene	1.3	ug/L	
FAG-89	4/28/2009	Trichloroethene	12.2	ug/L	
FAG-89	4/28/2009	Vinyl chloride	1	ug/L	U
FAG-89	10/14/2009	cis-1,2-Dichloroethene	1.5	ug/L	
FAG-89	10/14/2009	Trichloroethene	12	ug/L	
FAG-89	10/14/2009	Vinyl chloride	1	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-89	4/27/2010	cis-1,2-Dichloroethene	1.3	ug/L	
FAG-89	4/27/2010	Trichloroethene	7.9	ug/L	
FAG-89	4/27/2010	Vinyl chloride	1	ug/L	U
FAG-89	10/19/2010	cis-1,2-Dichloroethene	1.4	ug/L	
FAG-89	10/19/2010	Trichloroethene	11.4	ug/L	
FAG-89	10/19/2010	Vinyl chloride	1	ug/L	U
FAG-89	5/5/2011	cis-1,2-Dichloroethene	1.7	ug/L	
FAG-89	5/5/2011	Trichloroethene	11.8	ug/L	
FAG-89	5/5/2011	Vinyl chloride	1	ug/L	U
FAG-89	10/26/2011	cis-1,2-Dichloroethene	2.4	ug/L	
FAG-89	10/26/2011	Trichloroethene	16.6	ug/L	
FAG-89	10/26/2011	Vinyl chloride	1	ug/L	U
FAG-89	5/2/2012	cis-1,2-Dichloroethene	1.5	ug/L	
FAG-89	5/2/2012	Trichloroethene	13.2	ug/L	
FAG-89	5/2/2012	Vinyl chloride	1	ug/L	U
FAG-89	10/10/2012	cis-1,2-Dichloroethene	3.1	ug/L	
FAG-89	10/10/2012	Trichloroethene	33.4	ug/L	
FAG-89	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-89	5/15/2013	cis-1,2-Dichloroethene	3.4	ug/L	
FAG-89	5/15/2013	Trichloroethene	37.7	ug/L	
FAG-89	5/15/2013	Vinyl chloride	1	ug/L	U
FAG-89	10/19/2016	cis-1,2-Dichloroethene	2.3	ug/L	
FAG-89	10/19/2016	Trichloroethene	20.8	ug/L	
FAG-89	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-89	5/30/2017	cis-1,2-Dichloroethene	2	ug/L	
FAG-89	5/30/2017	Trichloroethene	18.8	ug/L	
FAG-89	5/30/2017	Vinyl chloride	1	ug/L	U
FAG-89	10/12/2017	cis-1,2-Dichloroethene	2.4	ug/L	
FAG-89	10/12/2017	Trichloroethene	20.9	ug/L	
FAG-89	10/12/2017	Vinyl chloride	1	ug/L	U
FAG-89	10/10/2018	cis-1,2-Dichloroethene	5.7	ug/L	
FAG-89	10/10/2018	Trichloroethene	63.6	ug/L	
FAG-89	10/10/2018	Vinyl chloride	1	ug/L	U
FAG-89	9/17/2020	cis-1,2-Dichloroethene	1.2	ug/L	
FAG-89	9/17/2020	Trichloroethene	7	ug/L	
FAG-89	9/17/2020	Vinyl chloride	1	ug/L	U
FAG-89	5/20/2021	cis-1,2-Dichloroethene	1.3	ug/L	
FAG-89	5/20/2021	Trichloroethene	10.3	ug/L	
FAG-89	5/20/2021	Vinyl chloride	1	ug/L	U
FAG-AW4	10/23/2008	cis-1,2-Dichloroethene	188	ug/L	
FAG-AW4	10/23/2008	Trichloroethene	983	ug/L	
FAG-AW4	10/23/2008	Vinyl chloride	10	ug/L	U
FAG-AW4	4/29/2009	cis-1,2-Dichloroethene	186	ug/L	
FAG-AW4	4/29/2009	Trichloroethene	1050	ug/L	
FAG-AW4	4/29/2009	Vinyl chloride	1	ug/L	U
FAG-AW4	10/15/2009	cis-1,2-Dichloroethene	177	ug/L	
FAG-AW4	10/15/2009	Trichloroethene	1300	ug/L	J
FAG-AW4	10/15/2009	Vinyl chloride	1	ug/L	U
FAG-AW4	4/29/2010	cis-1,2-Dichloroethene	191	ug/L	
FAG-AW4	4/29/2010	Trichloroethene	898	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-AW4	4/29/2010	Vinyl chloride	10	ug/L	U
FAG-AW4	10/21/2010	cis-1,2-Dichloroethene	213	ug/L	
FAG-AW4	10/21/2010	Trichloroethene	946	ug/L	
FAG-AW4	10/21/2010	Vinyl chloride	10	ug/L	U
FAG-AW4	4/28/2011	cis-1,2-Dichloroethene	200	ug/L	
FAG-AW4	4/28/2011	Trichloroethene	940	ug/L	
FAG-AW4	4/28/2011	Vinyl chloride	10	ug/L	U
FAG-AW4	10/27/2011	cis-1,2-Dichloroethene	200	ug/L	
FAG-AW4	10/27/2011	Trichloroethene	957	ug/L	
FAG-AW4	10/27/2011	Vinyl chloride	11.5	ug/L	
FAG-AW4	5/3/2012	cis-1,2-Dichloroethene	194	ug/L	
FAG-AW4	5/3/2012	Trichloroethene	874	ug/L	
FAG-AW4	5/3/2012	Vinyl chloride	10	ug/L	U
FAG-AW4	10/11/2012	cis-1,2-Dichloroethene	218	ug/L	
FAG-AW4	10/11/2012	Trichloroethene	873	ug/L	
FAG-AW4	10/11/2012	Vinyl chloride	10	ug/L	U
FAG-AW4	5/16/2013	cis-1,2-Dichloroethene	225	ug/L	
FAG-AW4	5/16/2013	Trichloroethene	912	ug/L	
FAG-AW4	5/16/2013	Vinyl chloride	10.9	ug/L	
FAG-AW4	10/20/2016	cis-1,2-Dichloroethene	270	ug/L	
FAG-AW4	10/20/2016	Trichloroethene	1150	ug/L	J
FAG-AW4	10/20/2016	Vinyl chloride	16.2	ug/L	
FAG-AW4	5/31/2017	cis-1,2-Dichloroethene	302	ug/L	
FAG-AW4	5/31/2017	Trichloroethene	1070	ug/L	
FAG-AW4	5/31/2017	Vinyl chloride	18.7	ug/L	
FAG-AW4	10/12/2017	cis-1,2-Dichloroethene	299	ug/L	
FAG-AW4	10/12/2017	Trichloroethene	1120	ug/L	
FAG-AW4	10/12/2017	Vinyl chloride	19.9	ug/L	
FAG-AW4	10/11/2018	cis-1,2-Dichloroethene	311	ug/L	
FAG-AW4	10/11/2018	Trichloroethene	1250	ug/L	
FAG-AW4	10/11/2018	Vinyl chloride	35.2	ug/L	
FAG-AW4	9/17/2020	cis-1,2-Dichloroethene	241	ug/L	
FAG-AW4	9/17/2020	Trichloroethene	966	ug/L	
FAG-AW4	9/17/2020	Vinyl chloride	23.2	ug/L	
FAG-AW4	5/19/2021	cis-1,2-Dichloroethene	292	ug/L	
FAG-AW4	5/19/2021	Trichloroethene	1150	ug/L	
FAG-AW4	5/19/2021	Vinyl chloride	24.2	ug/L	
RI-MW1	10/22/2008	cis-1,2-Dichloroethene	5	ug/L	U
RI-MW1	10/22/2008	Trichloroethene	54.5	ug/L	
RI-MW1	10/22/2008	Vinyl chloride	5	ug/L	U
RI-MW1	4/28/2009	cis-1,2-Dichloroethene	2.9	ug/L	
RI-MW1	4/28/2009	Trichloroethene	51.4	ug/L	
RI-MW1	4/28/2009	Vinyl chloride	1	ug/L	U
RI-MW1	10/15/2009	cis-1,2-Dichloroethene	2.6	ug/L	
RI-MW1	10/15/2009	Trichloroethene	36	ug/L	J
RI-MW1	10/15/2009	Vinyl chloride	1	ug/L	U
RI-MW1	4/30/2010	cis-1,2-Dichloroethene	2.4	ug/L	
RI-MW1	4/30/2010	Trichloroethene	53.2	ug/L	
RI-MW1	4/30/2010	Vinyl chloride	1	ug/L	U
RI-MW1	10/19/2010	cis-1,2-Dichloroethene	2.8	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW1	10/19/2010	Trichloroethene	78.5	ug/L	
RI-MW1	10/19/2010	Vinyl chloride	1	ug/L	U
RI-MW1	4/26/2011	cis-1,2-Dichloroethene	2.6	ug/L	
RI-MW1	4/26/2011	Trichloroethene	80.7	ug/L	
RI-MW1	4/26/2011	Vinyl chloride	1	ug/L	U
RI-MW1	10/28/2011	cis-1,2-Dichloroethene	2.5	ug/L	
RI-MW1	10/28/2011	Trichloroethene	55.1	ug/L	
RI-MW1	10/28/2011	Vinyl chloride	1	ug/L	U
RI-MW1	5/3/2012	cis-1,2-Dichloroethene	1.6	ug/L	
RI-MW1	5/3/2012	Trichloroethene	41.2	ug/L	
RI-MW1	5/3/2012	Vinyl chloride	1	ug/L	U
RI-MW1	10/10/2012	cis-1,2-Dichloroethene	2.6	ug/L	
RI-MW1	10/10/2012	Trichloroethene	55	ug/L	
RI-MW1	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW1	5/14/2013	cis-1,2-Dichloroethene	3.6	ug/L	
RI-MW1	5/14/2013	Trichloroethene	85.1	ug/L	
RI-MW1	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW1	10/18/2016	cis-1,2-Dichloroethene	2.2	ug/L	
RI-MW1	10/18/2016	Trichloroethene	52.8	ug/L	
RI-MW1	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW1	5/25/2017	cis-1,2-Dichloroethene	3	ug/L	
RI-MW1	5/25/2017	Trichloroethene	96.4	ug/L	
RI-MW1	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW1	10/8/2017	cis-1,2-Dichloroethene	2.6	ug/L	
RI-MW1	10/8/2017	Trichloroethene	47.4	ug/L	
RI-MW1	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW1	10/10/2018	cis-1,2-Dichloroethene	2.8	ug/L	
RI-MW1	10/10/2018	Trichloroethene	99.7	ug/L	
RI-MW1	10/10/2018	Vinyl chloride	1	ug/L	U
RI-MW1	9/15/2020	cis-1,2-Dichloroethene	1.3	ug/L	
RI-MW1	9/15/2020	Trichloroethene	47.5	ug/L	
RI-MW1	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW1	5/19/2021	cis-1,2-Dichloroethene	2	ug/L	
RI-MW1	5/19/2021	Trichloroethene	68.3	ug/L	
RI-MW1	5/19/2021	Vinyl chloride	1	ug/L	U
RI-MW2	10/22/2008	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/22/2008	Trichloroethene	1	ug/L	U
RI-MW2	10/22/2008	Vinyl chloride	1	ug/L	U
RI-MW2	4/27/2009	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	4/27/2009	Trichloroethene	1	ug/L	U
RI-MW2	4/27/2009	Vinyl chloride	1	ug/L	U
RI-MW2	10/15/2009	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/15/2009	Trichloroethene	1	ug/L	U
RI-MW2	10/15/2009	Vinyl chloride	1	ug/L	U
RI-MW2	4/29/2010	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	4/29/2010	Trichloroethene	1	ug/L	U
RI-MW2	4/29/2010	Vinyl chloride	1	ug/L	U
RI-MW2	10/19/2010	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/19/2010	Trichloroethene	1	ug/L	U
RI-MW2	10/19/2010	Vinyl chloride	1	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW2	4/26/2011	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	4/26/2011	Trichloroethene	1	ug/L	U
RI-MW2	4/26/2011	Vinyl chloride	1	ug/L	U
RI-MW2	10/26/2011	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/26/2011	Trichloroethene	1	ug/L	U
RI-MW2	10/26/2011	Vinyl chloride	1	ug/L	U
RI-MW2	5/3/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/3/2012	Trichloroethene	1	ug/L	U
RI-MW2	5/3/2012	Vinyl chloride	1	ug/L	U
RI-MW2	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/10/2012	Trichloroethene	1	ug/L	U
RI-MW2	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW2	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/14/2013	Trichloroethene	1	ug/L	U
RI-MW2	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW2	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/18/2016	Trichloroethene	1	ug/L	U
RI-MW2	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW2	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/25/2017	Trichloroethene	1	ug/L	U
RI-MW2	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW2	10/8/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/8/2017	Trichloroethene	1	ug/L	U
RI-MW2	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW2	10/9/2018	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/9/2018	Trichloroethene	1	ug/L	U
RI-MW2	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW2	9/15/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	9/15/2020	Trichloroethene	1	ug/L	U
RI-MW2	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW2	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/18/2021	Trichloroethene	1	ug/L	U
RI-MW2	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW5	10/21/2008	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/21/2008	Trichloroethene	12.7	ug/L	
RI-MW5	10/21/2008	Vinyl chloride	1	ug/L	U
RI-MW5	4/28/2009	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	4/28/2009	Trichloroethene	19.4	ug/L	J
RI-MW5	4/28/2009	Vinyl chloride	1	ug/L	U
RI-MW5	10/13/2009	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/13/2009	Trichloroethene	12.7	ug/L	
RI-MW5	10/13/2009	Vinyl chloride	1	ug/L	U
RI-MW5	4/27/2010	cis-1,2-Dichloroethene	1.4	ug/L	
RI-MW5	4/27/2010	Trichloroethene	25.8	ug/L	
RI-MW5	4/27/2010	Vinyl chloride	1	ug/L	U
RI-MW5	10/20/2010	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/20/2010	Trichloroethene	13.6	ug/L	
RI-MW5	10/20/2010	Vinyl chloride	1	ug/L	U
RI-MW5	4/26/2011	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	4/26/2011	Trichloroethene	4.3	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW5	4/26/2011	Vinyl chloride	1	ug/L	U
RI-MW5	10/25/2011	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/25/2011	Trichloroethene	8.5	ug/L	
RI-MW5	10/25/2011	Vinyl chloride	1	ug/L	U
RI-MW5	5/1/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/1/2012	Trichloroethene	7.4	ug/L	
RI-MW5	5/1/2012	Vinyl chloride	1	ug/L	U
RI-MW5	10/9/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/9/2012	Trichloroethene	5.9	ug/L	
RI-MW5	10/9/2012	Vinyl chloride	1	ug/L	U
RI-MW5	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/14/2013	Trichloroethene	4.8	ug/L	
RI-MW5	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW5	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/18/2016	Trichloroethene	18.3	ug/L	
RI-MW5	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW5	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/25/2017	Trichloroethene	12.7	ug/L	
RI-MW5	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW5	10/8/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/8/2017	Trichloroethene	17.5	ug/L	
RI-MW5	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW5	10/9/2018	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/9/2018	Trichloroethene	13.5	ug/L	
RI-MW5	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW5	9/15/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	9/15/2020	Trichloroethene	14.5	ug/L	
RI-MW5	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW5	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/18/2021	Trichloroethene	1	ug/L	U
RI-MW5	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW6	10/21/2008	cis-1,2-Dichloroethene	5.6	ug/L	
RI-MW6	10/21/2008	Trichloroethene	39.8	ug/L	
RI-MW6	10/21/2008	Vinyl chloride	1	ug/L	U
RI-MW6	4/29/2009	cis-1,2-Dichloroethene	6.4	ug/L	
RI-MW6	4/29/2009	Trichloroethene	47.2	ug/L	
RI-MW6	4/29/2009	Vinyl chloride	1	ug/L	U
RI-MW6	10/14/2009	cis-1,2-Dichloroethene	6.1	ug/L	
RI-MW6	10/14/2009	Trichloroethene	40	ug/L	
RI-MW6	10/14/2009	Vinyl chloride	1	ug/L	U
RI-MW6	4/28/2010	cis-1,2-Dichloroethene	9.2	ug/L	
RI-MW6	4/28/2010	Trichloroethene	72.2	ug/L	
RI-MW6	4/28/2010	Vinyl chloride	1	ug/L	U
RI-MW6	10/20/2010	cis-1,2-Dichloroethene	7.1	ug/L	
RI-MW6	10/20/2010	Trichloroethene	48.8	ug/L	
RI-MW6	10/20/2010	Vinyl chloride	1	ug/L	U
RI-MW6	4/27/2011	cis-1,2-Dichloroethene	7.6	ug/L	
RI-MW6	4/27/2011	Trichloroethene	48.6	ug/L	
RI-MW6	4/27/2011	Vinyl chloride	1	ug/L	U
RI-MW6	10/26/2011	cis-1,2-Dichloroethene	6.3	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW6	10/26/2011	Trichloroethene	38.4	ug/L	
RI-MW6	10/26/2011	Vinyl chloride	1	ug/L	U
RI-MW6	5/2/2012	cis-1,2-Dichloroethene	5.4	ug/L	
RI-MW6	5/2/2012	Trichloroethene	33.6	ug/L	
RI-MW6	5/2/2012	Vinyl chloride	1	ug/L	U
RI-MW6	10/10/2012	cis-1,2-Dichloroethene	5.2	ug/L	
RI-MW6	10/10/2012	Trichloroethene	29.5	ug/L	
RI-MW6	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW6	5/15/2013	cis-1,2-Dichloroethene	3.6	ug/L	
RI-MW6	5/15/2013	Trichloroethene	17.9	ug/L	
RI-MW6	5/15/2013	Vinyl chloride	1	ug/L	U
RI-MW6	10/19/2016	cis-1,2-Dichloroethene	6.4	ug/L	
RI-MW6	10/19/2016	Trichloroethene	38.1	ug/L	
RI-MW6	10/19/2016	Vinyl chloride	1	ug/L	U
RI-MW6	5/30/2017	cis-1,2-Dichloroethene	4.2	ug/L	
RI-MW6	5/30/2017	Trichloroethene	22.2	ug/L	
RI-MW6	5/30/2017	Vinyl chloride	1	ug/L	U
RI-MW6	10/11/2017	cis-1,2-Dichloroethene	5.6	ug/L	
RI-MW6	10/11/2017	Trichloroethene	30.9	ug/L	
RI-MW6	10/11/2017	Vinyl chloride	1	ug/L	U
RI-MW6	10/9/2018	cis-1,2-Dichloroethene	4	ug/L	
RI-MW6	10/9/2018	Trichloroethene	21.7	ug/L	
RI-MW6	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW6	9/15/2020	cis-1,2-Dichloroethene	7.9	ug/L	
RI-MW6	9/15/2020	Trichloroethene	40.2	ug/L	
RI-MW6	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW6	5/18/2021	cis-1,2-Dichloroethene	8.2	ug/L	
RI-MW6	5/18/2021	Trichloroethene	45.4	ug/L	
RI-MW6	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW7	10/21/2008	cis-1,2-Dichloroethene	1	ug/L	
RI-MW7	10/21/2008	Trichloroethene	11.4	ug/L	
RI-MW7	10/21/2008	Vinyl chloride	1	ug/L	U
RI-MW7	4/28/2009	cis-1,2-Dichloroethene	1.2	ug/L	
RI-MW7	4/28/2009	Trichloroethene	14.3	ug/L	
RI-MW7	4/28/2009	Vinyl chloride	1	ug/L	U
RI-MW7	10/13/2009	cis-1,2-Dichloroethene	1.8	ug/L	
RI-MW7	10/13/2009	Trichloroethene	18.9	ug/L	
RI-MW7	10/13/2009	Vinyl chloride	1	ug/L	U
RI-MW7	4/27/2010	cis-1,2-Dichloroethene	2	ug/L	
RI-MW7	4/27/2010	Trichloroethene	20	ug/L	
RI-MW7	4/27/2010	Vinyl chloride	1	ug/L	U
RI-MW7	10/20/2010	cis-1,2-Dichloroethene	2.2	ug/L	
RI-MW7	10/20/2010	Trichloroethene	20.3	ug/L	
RI-MW7	10/20/2010	Vinyl chloride	1	ug/L	U
RI-MW7	4/26/2011	cis-1,2-Dichloroethene	2.8	ug/L	
RI-MW7	4/26/2011	Trichloroethene	26.7	ug/L	
RI-MW7	4/26/2011	Vinyl chloride	1	ug/L	U
RI-MW7	10/25/2011	cis-1,2-Dichloroethene	2.8	ug/L	
RI-MW7	10/25/2011	Trichloroethene	23.7	ug/L	
RI-MW7	10/25/2011	Vinyl chloride	1	ug/L	U

MANN KENDALL ANALYSIS INPUT

Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW7	5/1/2012	cis-1,2-Dichloroethene	2.7	ug/L	
RI-MW7	5/1/2012	Trichloroethene	28.4	ug/L	
RI-MW7	5/1/2012	Vinyl chloride	1	ug/L	U
RI-MW7	10/9/2012	cis-1,2-Dichloroethene	4	ug/L	
RI-MW7	10/9/2012	Trichloroethene	31.9	ug/L	
RI-MW7	10/9/2012	Vinyl chloride	1	ug/L	U
RI-MW7	5/15/2013	cis-1,2-Dichloroethene	3.5	ug/L	
RI-MW7	5/15/2013	Trichloroethene	33.4	ug/L	
RI-MW7	5/15/2013	Vinyl chloride	1	ug/L	U
RI-MW7	10/19/2016	cis-1,2-Dichloroethene	3.3	ug/L	
RI-MW7	10/19/2016	Trichloroethene	25.5	ug/L	
RI-MW7	10/19/2016	Vinyl chloride	1	ug/L	U
RI-MW7	5/30/2017	cis-1,2-Dichloroethene	3.3	ug/L	
RI-MW7	5/30/2017	Trichloroethene	25.8	ug/L	
RI-MW7	5/30/2017	Vinyl chloride	1	ug/L	U
RI-MW7	10/11/2017	cis-1,2-Dichloroethene	4.4	ug/L	
RI-MW7	10/11/2017	Trichloroethene	32	ug/L	
RI-MW7	10/11/2017	Vinyl chloride	1	ug/L	U
RI-MW7	10/9/2018	cis-1,2-Dichloroethene	4.1	ug/L	
RI-MW7	10/9/2018	Trichloroethene	33.1	ug/L	
RI-MW7	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW7	9/15/2020	cis-1,2-Dichloroethene	1.6	ug/L	
RI-MW7	9/15/2020	Trichloroethene	11.1	ug/L	
RI-MW7	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW7	5/18/2021	cis-1,2-Dichloroethene	2.9	ug/L	
RI-MW7	5/18/2021	Trichloroethene	19.5	ug/L	
RI-MW7	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW8	10/20/2008	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/20/2008	Trichloroethene	4.1	ug/L	
RI-MW8	10/20/2008	Vinyl chloride	1	ug/L	U
RI-MW8	4/27/2009	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	4/27/2009	Trichloroethene	4.5	ug/L	J
RI-MW8	4/27/2009	Vinyl chloride	1	ug/L	U
RI-MW8	10/13/2009	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/13/2009	Trichloroethene	4.8	ug/L	
RI-MW8	10/13/2009	Vinyl chloride	1	ug/L	U
RI-MW8	4/26/2010	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	4/26/2010	Trichloroethene	5.9	ug/L	
RI-MW8	4/26/2010	Vinyl chloride	1	ug/L	U
RI-MW8	10/19/2010	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/19/2010	Trichloroethene	4.4	ug/L	
RI-MW8	10/19/2010	Vinyl chloride	1	ug/L	U
RI-MW8	4/26/2011	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	4/26/2011	Trichloroethene	4.3	ug/L	
RI-MW8	4/26/2011	Vinyl chloride	1	ug/L	U
RI-MW8	10/25/2011	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/25/2011	Trichloroethene	3.1	ug/L	
RI-MW8	10/25/2011	Vinyl chloride	1	ug/L	U
RI-MW8	5/1/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/1/2012	Trichloroethene	3.7	ug/L	

MANN KENDALL ANALYSIS INPUT

Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW8	5/1/2012	Vinyl chloride	1	ug/L	U
RI-MW8	10/9/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/9/2012	Trichloroethene	3.9	ug/L	
RI-MW8	10/9/2012	Vinyl chloride	1	ug/L	U
RI-MW8	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/14/2013	Trichloroethene	3.7	ug/L	
RI-MW8	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW8	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/18/2016	Trichloroethene	3.1	ug/L	
RI-MW8	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW8	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/25/2017	Trichloroethene	3.4	ug/L	
RI-MW8	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW8	10/8/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/8/2017	Trichloroethene	3.1	ug/L	
RI-MW8	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW8	10/9/2018	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/9/2018	Trichloroethene	3.1	ug/L	
RI-MW8	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW8	9/15/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	9/15/2020	Trichloroethene	1.7	ug/L	
RI-MW8	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW8	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/18/2021	Trichloroethene	2.1	ug/L	
RI-MW8	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW9	10/22/2008	cis-1,2-Dichloroethene	2.4	ug/L	
RI-MW9	10/22/2008	Trichloroethene	46.4	ug/L	
RI-MW9	10/22/2008	Vinyl chloride	1	ug/L	U
RI-MW9	4/29/2009	cis-1,2-Dichloroethene	2.7	ug/L	
RI-MW9	4/29/2009	Trichloroethene	54.2	ug/L	
RI-MW9	4/29/2009	Vinyl chloride	1	ug/L	U
RI-MW9	10/14/2009	cis-1,2-Dichloroethene	2.5	ug/L	
RI-MW9	10/14/2009	Trichloroethene	44.9	ug/L	
RI-MW9	10/14/2009	Vinyl chloride	1	ug/L	U
RI-MW9	4/28/2010	cis-1,2-Dichloroethene	3	ug/L	
RI-MW9	4/28/2010	Trichloroethene	53	ug/L	
RI-MW9	4/28/2010	Vinyl chloride	1	ug/L	U
RI-MW9	10/20/2010	cis-1,2-Dichloroethene	2	ug/L	
RI-MW9	10/20/2010	Trichloroethene	34.4	ug/L	
RI-MW9	10/20/2010	Vinyl chloride	1	ug/L	U
RI-MW9	4/26/2011	cis-1,2-Dichloroethene	1.6	ug/L	
RI-MW9	4/26/2011	Trichloroethene	27.7	ug/L	
RI-MW9	4/26/2011	Vinyl chloride	1	ug/L	U
RI-MW9	10/26/2011	cis-1,2-Dichloroethene	1.4	ug/L	
RI-MW9	10/26/2011	Trichloroethene	22.1	ug/L	
RI-MW9	10/26/2011	Vinyl chloride	1	ug/L	U
RI-MW9	5/2/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/2/2012	Trichloroethene	14.2	ug/L	
RI-MW9	5/2/2012	Vinyl chloride	1	ug/L	U
RI-MW9	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U

MANN KENDALL ANALYSIS INPUT

Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW9	10/10/2012	Trichloroethene	10.3	ug/L	
RI-MW9	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW9	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/14/2013	Trichloroethene	9.6	ug/L	
RI-MW9	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW9	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	10/18/2016	Trichloroethene	9.5	ug/L	
RI-MW9	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW9	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/25/2017	Trichloroethene	6.4	ug/L	
RI-MW9	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW9	10/8/2017	cis-1,2-Dichloroethene	1.4	ug/L	
RI-MW9	10/8/2017	Trichloroethene	4.5	ug/L	
RI-MW9	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW9	10/10/2018	cis-1,2-Dichloroethene	1	ug/L	
RI-MW9	10/10/2018	Trichloroethene	4.5	ug/L	
RI-MW9	10/10/2018	Vinyl chloride	1	ug/L	U
RI-MW9	9/16/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	9/16/2020	Trichloroethene	4.4	ug/L	
RI-MW9	9/16/2020	Vinyl chloride	1	ug/L	U
RI-MW9	5/19/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/19/2021	Trichloroethene	6.9	ug/L	
RI-MW9	5/19/2021	Vinyl chloride	1	ug/L	U
RW-341A	10/23/2008	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/23/2008	Trichloroethene	1.9	ug/L	
RW-341A	10/23/2008	Vinyl chloride	1	ug/L	U
RW-341A	4/30/2009	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	4/30/2009	Trichloroethene	1	ug/L	U
RW-341A	4/30/2009	Vinyl chloride	1	ug/L	U
RW-341A	10/16/2009	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/16/2009	Trichloroethene	1	ug/L	U
RW-341A	10/16/2009	Vinyl chloride	1	ug/L	U
RW-341A	4/29/2010	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	4/29/2010	Trichloroethene	2.1	ug/L	
RW-341A	4/29/2010	Vinyl chloride	1	ug/L	U
RW-341A	10/20/2010	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/20/2010	Trichloroethene	1.1	ug/L	
RW-341A	10/20/2010	Vinyl chloride	1	ug/L	U
RW-341A	4/28/2011	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	4/28/2011	Trichloroethene	1	ug/L	U
RW-341A	4/28/2011	Vinyl chloride	1	ug/L	U
RW-341A	10/25/2011	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/25/2011	Trichloroethene	1	ug/L	U
RW-341A	10/25/2011	Vinyl chloride	1	ug/L	U
RW-341A	5/4/2012	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	5/4/2012	Trichloroethene	1	ug/L	
RW-341A	5/4/2012	Vinyl chloride	1	ug/L	U
RW-341A	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/10/2012	Trichloroethene	1	ug/L	U
RW-341A	10/10/2012	Vinyl chloride	1	ug/L	U

MANN KENDALL ANALYSIS INPUT

Well ID	Sample Date	Sample	Value	Units	Qualifier
RW-341A	5/15/2013	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	5/15/2013	Trichloroethene	1	ug/L	U
RW-341A	5/15/2013	Vinyl chloride	1	ug/L	U
RW-341A	10/20/2016	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/20/2016	Trichloroethene	1	ug/L	U
RW-341A	10/20/2016	Vinyl chloride	1	ug/L	U
RW-341A	5/31/2017	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	5/31/2017	Trichloroethene	1	ug/L	U
RW-341A	5/31/2017	Vinyl chloride	1	ug/L	U
RW-341A	10/11/2017	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/11/2017	Trichloroethene	1	ug/L	
RW-341A	10/11/2017	Vinyl chloride	1	ug/L	U
RW-341A	10/11/2018	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/11/2018	Trichloroethene	1	ug/L	U
RW-341A	10/11/2018	Vinyl chloride	1	ug/L	U
RW-341A	9/17/2020	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	9/17/2020	Trichloroethene	1	ug/L	U
RW-341A	9/17/2020	Vinyl chloride	1	ug/L	U
RW-341A	5/20/2021	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	5/20/2021	Trichloroethene	1	ug/L	
RW-341A	5/20/2021	Vinyl chloride	1	ug/L	U
SW-01	10/23/2008	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/23/2008	Trichloroethene	2	ug/L	
SW-01	10/23/2008	Vinyl chloride	1	ug/L	U
SW-01	4/30/2009	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	4/30/2009	Trichloroethene	1	ug/L	U
SW-01	4/30/2009	Vinyl chloride	1	ug/L	U
SW-01	10/16/2009	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/16/2009	Trichloroethene	1	ug/L	U
SW-01	10/16/2009	Vinyl chloride	1	ug/L	U
SW-01	4/29/2010	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	4/29/2010	Trichloroethene	1.6	ug/L	
SW-01	4/29/2010	Vinyl chloride	1	ug/L	U
SW-01	10/20/2010	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/20/2010	Trichloroethene	1.1	ug/L	
SW-01	10/20/2010	Vinyl chloride	1	ug/L	U
SW-01	4/28/2011	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	4/28/2011	Trichloroethene	1.1	ug/L	
SW-01	4/28/2011	Vinyl chloride	1	ug/L	U
SW-01	10/25/2011	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/25/2011	Trichloroethene	1	ug/L	U
SW-01	10/25/2011	Vinyl chloride	1	ug/L	U
SW-01	5/4/2012	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/4/2012	Trichloroethene	1	ug/L	U
SW-01	5/4/2012	Vinyl chloride	1	ug/L	U
SW-01	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/10/2012	Trichloroethene	1.6	ug/L	
SW-01	10/10/2012	Vinyl chloride	1	ug/L	U
SW-01	5/15/2013	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/15/2013	Trichloroethene	1	ug/L	U

MANN KENDALL ANALYSIS INPUT

Well ID	Sample Date	Sample	Value	Units	Qualifier
SW-01	5/15/2013	Vinyl chloride	1	ug/L	U
SW-01	10/20/2016	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/20/2016	Trichloroethene	1	ug/L	U
SW-01	10/20/2016	Vinyl chloride	1	ug/L	U
SW-01	5/31/2017	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/31/2017	Trichloroethene	1	ug/L	U
SW-01	5/31/2017	Vinyl chloride	1	ug/L	U
SW-01	10/11/2017	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/11/2017	Trichloroethene	1.3	ug/L	
SW-01	10/11/2017	Vinyl chloride	1	ug/L	U
SW-01	10/11/2018	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/11/2018	Trichloroethene	1.5	ug/L	
SW-01	10/11/2018	Vinyl chloride	1	ug/L	U
SW-01	9/17/2020	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	9/17/2020	Trichloroethene	1.2	ug/L	
SW-01	9/17/2020	Vinyl chloride	1	ug/L	U
SW-01	5/20/2021	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/20/2021	Trichloroethene	1.3	ug/L	
SW-01	5/20/2021	Vinyl chloride	1	ug/L	U

MANN KENDALL ANALYSIS OUTPUT

Location	Samples	Min Date	Max Date	cis-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
FAG-05	16	10/21/2008	5/19/2021	Decreasing (p=0.009)	Decreasing (p=0.002)	All ND
FAG-11	16	10/23/2008	5/19/2021	Decreasing (p=<0.001)	Decreasing (p=<0.001)	All ND
FAG-22	16	10/23/2008	5/20/2021	Decreasing (p=<0.001)	Stable (p=0.209, cv=0.339)	Decreasing (p=0.017)
FAG-31	16	10/23/2008	5/20/2021	Increasing (p=0.003)	Stable (p=0.393, cv=0.136)	Stable (p=0.234, cv=0.744)
FAG-32	16	10/22/2008	5/19/2021	Stable (p=0.103, cv=0.382)	Stable (p=0.235, cv=0.365)	All ND
FAG-33	16	10/20/2008	5/18/2021	Increasing (p=0.002)	Increasing (p=0.015)	All ND
FAG-34	16	10/22/2008	5/19/2021	Decreasing (p=<0.001)	Decreasing (p=0.001)	Decreasing (p=0.002)
FAG-35	16	10/23/2008	5/18/2021	Probably Decreasing (p=0.068)	Stable (p=0.446, cv=0.109)	All ND
FAG-36	16	10/22/2008	5/19/2021	Increasing (p=<0.001)	Increasing (p=0.011)	All ND
FAG-43	16	10/21/2008	5/18/2021	Decreasing (p=0.002)	Decreasing (p=0.002)	All ND
FAG-46	16	10/21/2008	5/18/2021	Decreasing (p=<0.001)	Decreasing (p=<0.001)	All ND
FAG-47	16	10/21/2008	5/18/2021	Decreasing (p=0.007)	Decreasing (p=0.002)	All ND
FAG-50	12	10/21/2008	5/19/2021	Stable (p=0.245, cv=0.689)	Stable (p=0.224, cv=0.590)	All ND
FAG-56	16	10/20/2008	5/18/2021	Stable (p=0.112, cv=0.194)	Stable (p=0.279, cv=0.231)	All ND
FAG-62	13	10/23/2008	5/18/2021	No Trend (p=0.291, cv=1.151)	Decreasing (p=0.005)	All ND
FAG-73	16	10/21/2008	5/19/2021	Decreasing (p=0.001)	Decreasing (p=0.014)	Decreasing (p=<0.001)
FAG-74	16	10/21/2008	5/21/2021	Decreasing (p=<0.001)	Decreasing (p=<0.001)	Decreasing (p=<0.001)
FAG-85	16	10/23/2008	5/21/2021	Stable (p=0.294, cv=0.476)	Stable (p=0.222, cv=0.513)	No Trend (p=0.142, cv=1.482)
FAG-88	16	10/20/2008	5/19/2021	Decreasing (p=<0.001)	Decreasing (p=<0.001)	All ND
FAG-89	16	10/21/2008	5/20/2021	Stable (p=0.139, cv=0.520)	Stable (p=0.172, cv=0.710)	All ND
FAG-AW4	16	10/23/2008	5/19/2021	Increasing (p=<0.001)	Stable (p=0.184, cv=0.126)	Increasing (p=<0.001)
RI-MW1	16	10/22/2008	5/19/2021	Stable (p=0.247, cv=0.211)	Stable (p=0.150, cv=0.303)	All ND
RI-MW2	16	10/22/2008	5/18/2021	All ND	All ND	All ND
RI-MW5	16	10/21/2008	5/18/2021	Stable (p=0.193, cv=0.392)	Stable (p=0.235, cv=0.527)	All ND
RI-MW6	16	10/21/2008	5/18/2021	Stable (p=0.310, cv=0.245)	Decreasing (p=0.040)	All ND
RI-MW7	16	10/21/2008	5/18/2021	Increasing (p=0.002)	Increasing (p=0.017)	All ND
RI-MW8	16	10/20/2008	5/18/2021	All ND	Decreasing (p=<0.001)	All ND
RI-MW9	16	10/22/2008	5/19/2021	Decreasing (p=0.001)	Decreasing (p=<0.001)	All ND
RW-341A	16	10/23/2008	5/20/2021	All ND	Stable (p=0.187, cv=0.611)	All ND
SW-01	16	10/23/2008	5/20/2021	All ND	Stable (p=0.444, cv=0.491)	All ND

APPENDIX D-2
Eight Most Recent Data Points

MANN KENDALL ANALYSIS INPUT - LAST 8

Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-05	10/10/2012	cis-1,2-Dichloroethene	14	ug/L	
FAG-05	10/10/2012	Trichloroethene	62	ug/L	
FAG-05	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-05	5/15/2013	cis-1,2-Dichloroethene	6.1	ug/L	
FAG-05	5/15/2013	Trichloroethene	35.9	ug/L	
FAG-05	5/15/2013	Vinyl chloride	1	ug/L	U
FAG-05	10/19/2016	cis-1,2-Dichloroethene	17.2	ug/L	
FAG-05	10/19/2016	Trichloroethene	75.6	ug/L	
FAG-05	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-05	5/31/2017	cis-1,2-Dichloroethene	6.2	ug/L	
FAG-05	5/31/2017	Trichloroethene	32.8	ug/L	
FAG-05	5/31/2017	Vinyl chloride	1	ug/L	U
FAG-05	10/12/2017	cis-1,2-Dichloroethene	14.5	ug/L	
FAG-05	10/12/2017	Trichloroethene	69.6	ug/L	
FAG-05	10/12/2017	Vinyl chloride	1	ug/L	U
FAG-05	10/11/2018	cis-1,2-Dichloroethene	12.8	ug/L	
FAG-05	10/11/2018	Trichloroethene	67.9	ug/L	
FAG-05	10/11/2018	Vinyl chloride	1	ug/L	U
FAG-05	9/16/2020	cis-1,2-Dichloroethene	5.5	ug/L	
FAG-05	9/16/2020	Trichloroethene	31.7	ug/L	
FAG-05	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-05	5/19/2021	cis-1,2-Dichloroethene	3.1	ug/L	
FAG-05	5/19/2021	Trichloroethene	23.9	ug/L	
FAG-05	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-11	10/10/2012	cis-1,2-Dichloroethene	2	ug/L	
FAG-11	10/10/2012	Trichloroethene	10.8	ug/L	
FAG-11	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-11	5/14/2013	cis-1,2-Dichloroethene	1.5	ug/L	
FAG-11	5/14/2013	Trichloroethene	8	ug/L	
FAG-11	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-11	10/19/2016	cis-1,2-Dichloroethene	1.9	ug/L	
FAG-11	10/19/2016	Trichloroethene	9.6	ug/L	
FAG-11	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-11	5/30/2017	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	5/30/2017	Trichloroethene	1.9	ug/L	
FAG-11	5/30/2017	Vinyl chloride	1	ug/L	U
FAG-11	10/11/2017	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	10/11/2017	Trichloroethene	1	ug/L	U
FAG-11	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-11	10/10/2018	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	10/10/2018	Trichloroethene	1	ug/L	U
FAG-11	10/10/2018	Vinyl chloride	1	ug/L	U
FAG-11	9/16/2020	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	9/16/2020	Trichloroethene	1	ug/L	U
FAG-11	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-11	5/19/2021	cis-1,2-Dichloroethene	1	ug/L	U
FAG-11	5/19/2021	Trichloroethene	1	ug/L	U
FAG-11	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-22	10/11/2012	cis-1,2-Dichloroethene	528	ug/L	
FAG-22	10/11/2012	Trichloroethene	1660	ug/L	
FAG-22	10/11/2012	Vinyl chloride	80.7	ug/L	
FAG-22	5/16/2013	cis-1,2-Dichloroethene	477	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-22	5/16/2013	Trichloroethene	1510	ug/L	
FAG-22	5/16/2013	Vinyl chloride	60.8	ug/L	
FAG-22	10/20/2016	cis-1,2-Dichloroethene	707	ug/L	
FAG-22	10/20/2016	Trichloroethene	1340	ug/L	
FAG-22	10/20/2016	Vinyl chloride	93.1	ug/L	
FAG-22	5/31/2017	cis-1,2-Dichloroethene	523	ug/L	
FAG-22	5/31/2017	Trichloroethene	1860	ug/L	
FAG-22	5/31/2017	Vinyl chloride	63.1	ug/L	
FAG-22	10/12/2017	cis-1,2-Dichloroethene	464	ug/L	
FAG-22	10/12/2017	Trichloroethene	1280	ug/L	
FAG-22	10/12/2017	Vinyl chloride	73.6	ug/L	
FAG-22	10/11/2018	cis-1,2-Dichloroethene	514	ug/L	
FAG-22	10/11/2018	Trichloroethene	1680	ug/L	
FAG-22	10/11/2018	Vinyl chloride	110	ug/L	
FAG-22	9/17/2020	cis-1,2-Dichloroethene	189	ug/L	
FAG-22	9/17/2020	Trichloroethene	420	ug/L	
FAG-22	9/17/2020	Vinyl chloride	25	ug/L	U
FAG-22	5/20/2021	cis-1,2-Dichloroethene	165	ug/L	
FAG-22	5/20/2021	Trichloroethene	344	ug/L	
FAG-22	5/20/2021	Vinyl chloride	18.3	ug/L	
FAG-31	10/11/2012	cis-1,2-Dichloroethene	201	ug/L	
FAG-31	10/11/2012	Trichloroethene	705	ug/L	
FAG-31	10/11/2012	Vinyl chloride	1	ug/L	U
FAG-31	5/16/2013	cis-1,2-Dichloroethene	196	ug/L	
FAG-31	5/16/2013	Trichloroethene	724	ug/L	
FAG-31	5/16/2013	Vinyl chloride	1	ug/L	U
FAG-31	10/20/2016	cis-1,2-Dichloroethene	305	ug/L	
FAG-31	10/20/2016	Trichloroethene	765	ug/L	
FAG-31	10/20/2016	Vinyl chloride	10	ug/L	U
FAG-31	5/31/2017	cis-1,2-Dichloroethene	276	ug/L	
FAG-31	5/31/2017	Trichloroethene	719	ug/L	
FAG-31	5/31/2017	Vinyl chloride	10	ug/L	U
FAG-31	10/12/2017	cis-1,2-Dichloroethene	247	ug/L	
FAG-31	10/12/2017	Trichloroethene	735	ug/L	
FAG-31	10/12/2017	Vinyl chloride	10	ug/L	U
FAG-31	10/11/2018	cis-1,2-Dichloroethene	274	ug/L	
FAG-31	10/11/2018	Trichloroethene	934	ug/L	
FAG-31	10/11/2018	Vinyl chloride	10	ug/L	U
FAG-31	9/17/2020	cis-1,2-Dichloroethene	244	ug/L	
FAG-31	9/17/2020	Trichloroethene	705	ug/L	
FAG-31	9/17/2020	Vinyl chloride	10	ug/L	U
FAG-31	5/20/2021	cis-1,2-Dichloroethene	248	ug/L	
FAG-31	5/20/2021	Trichloroethene	733	ug/L	
FAG-31	5/20/2021	Vinyl chloride	10	ug/L	U
FAG-32	10/9/2012	cis-1,2-Dichloroethene	487	ug/L	
FAG-32	10/9/2012	Trichloroethene	1770	ug/L	
FAG-32	10/9/2012	Vinyl chloride	20	ug/L	U
FAG-32	5/16/2013	cis-1,2-Dichloroethene	389	ug/L	
FAG-32	5/16/2013	Trichloroethene	1380	ug/L	
FAG-32	5/16/2013	Vinyl chloride	20	ug/L	U
FAG-32	10/20/2016	cis-1,2-Dichloroethene	481	ug/L	
FAG-32	10/20/2016	Trichloroethene	1570	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-32	10/20/2016	Vinyl chloride	20	ug/L	U
FAG-32	5/31/2017	cis-1,2-Dichloroethene	448	ug/L	
FAG-32	5/31/2017	Trichloroethene	1520	ug/L	
FAG-32	5/31/2017	Vinyl chloride	20	ug/L	U
FAG-32	10/12/2017	cis-1,2-Dichloroethene	448	ug/L	
FAG-32	10/12/2017	Trichloroethene	1780	ug/L	
FAG-32	10/12/2017	Vinyl chloride	20	ug/L	U
FAG-32	10/10/2018	cis-1,2-Dichloroethene	476	ug/L	
FAG-32	10/10/2018	Trichloroethene	1920	ug/L	
FAG-32	10/10/2018	Vinyl chloride	20	ug/L	U
FAG-32	9/16/2020	cis-1,2-Dichloroethene	1	ug/L	U
FAG-32	9/16/2020	Trichloroethene	1	ug/L	U
FAG-32	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-32	5/19/2021	cis-1,2-Dichloroethene	43.7	ug/L	
FAG-32	5/19/2021	Trichloroethene	183	ug/L	
FAG-32	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-33	10/11/2012	cis-1,2-Dichloroethene	2.3	ug/L	
FAG-33	10/11/2012	Trichloroethene	17.3	ug/L	
FAG-33	10/11/2012	Vinyl chloride	1	ug/L	U
FAG-33	5/14/2013	cis-1,2-Dichloroethene	2.8	ug/L	
FAG-33	5/14/2013	Trichloroethene	23.9	ug/L	
FAG-33	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-33	10/18/2016	cis-1,2-Dichloroethene	3.5	ug/L	
FAG-33	10/18/2016	Trichloroethene	28.1	ug/L	
FAG-33	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-33	5/27/2017	cis-1,2-Dichloroethene	3.6	ug/L	
FAG-33	5/27/2017	Trichloroethene	31.7	ug/L	
FAG-33	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-33	10/8/2017	cis-1,2-Dichloroethene	3.3	ug/L	
FAG-33	10/8/2017	Trichloroethene	31	ug/L	
FAG-33	10/8/2017	Vinyl chloride	1	ug/L	U
FAG-33	10/9/2018	cis-1,2-Dichloroethene	3.7	ug/L	
FAG-33	10/9/2018	Trichloroethene	29.6	ug/L	
FAG-33	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-33	9/15/2020	cis-1,2-Dichloroethene	3.8	ug/L	
FAG-33	9/15/2020	Trichloroethene	28.3	ug/L	
FAG-33	9/15/2020	Vinyl chloride	1	ug/L	U
FAG-33	5/18/2021	cis-1,2-Dichloroethene	4.4	ug/L	
FAG-33	5/18/2021	Trichloroethene	28.9	ug/L	
FAG-33	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-34	10/11/2012	cis-1,2-Dichloroethene	358	ug/L	
FAG-34	10/11/2012	Trichloroethene	820	ug/L	
FAG-34	10/11/2012	Vinyl chloride	6.2	ug/L	
FAG-34	5/15/2013	cis-1,2-Dichloroethene	337	ug/L	
FAG-34	5/15/2013	Trichloroethene	713	ug/L	
FAG-34	5/15/2013	Vinyl chloride	6.7	ug/L	
FAG-34	10/19/2016	cis-1,2-Dichloroethene	326	ug/L	
FAG-34	10/19/2016	Trichloroethene	574	ug/L	
FAG-34	10/19/2016	Vinyl chloride	10.6	ug/L	
FAG-34	5/26/2017	cis-1,2-Dichloroethene	330	ug/L	
FAG-34	5/26/2017	Trichloroethene	809	ug/L	
FAG-34	5/26/2017	Vinyl chloride	5.9	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-34	10/11/2017	cis-1,2-Dichloroethene	324	ug/L	
FAG-34	10/11/2017	Trichloroethene	644	ug/L	
FAG-34	10/11/2017	Vinyl chloride	6.8	ug/L	
FAG-34	10/10/2018	cis-1,2-Dichloroethene	320	ug/L	
FAG-34	10/10/2018	Trichloroethene	762	ug/L	
FAG-34	10/10/2018	Vinyl chloride	6.5	ug/L	
FAG-34	9/16/2020	cis-1,2-Dichloroethene	249	ug/L	
FAG-34	9/16/2020	Trichloroethene	500	ug/L	
FAG-34	9/16/2020	Vinyl chloride	5	ug/L	U
FAG-34	5/19/2021	cis-1,2-Dichloroethene	238	ug/L	
FAG-34	5/19/2021	Trichloroethene	462	ug/L	
FAG-34	5/19/2021	Vinyl chloride	5	ug/L	U
FAG-35	10/11/2012	cis-1,2-Dichloroethene	134	ug/L	
FAG-35	10/11/2012	Trichloroethene	467	ug/L	
FAG-35	10/11/2012	Vinyl chloride	5	ug/L	U
FAG-35	5/15/2013	cis-1,2-Dichloroethene	124	ug/L	
FAG-35	5/15/2013	Trichloroethene	429	ug/L	
FAG-35	5/15/2013	Vinyl chloride	5	ug/L	U
FAG-35	10/19/2016	cis-1,2-Dichloroethene	126	ug/L	
FAG-35	10/19/2016	Trichloroethene	516	ug/L	
FAG-35	10/19/2016	Vinyl chloride	5	ug/L	U
FAG-35	5/31/2017	cis-1,2-Dichloroethene	107	ug/L	
FAG-35	5/31/2017	Trichloroethene	432	ug/L	
FAG-35	5/31/2017	Vinyl chloride	5	ug/L	U
FAG-35	10/11/2017	cis-1,2-Dichloroethene	123	ug/L	
FAG-35	10/11/2017	Trichloroethene	543	ug/L	
FAG-35	10/11/2017	Vinyl chloride	5	ug/L	U
FAG-35	10/10/2018	cis-1,2-Dichloroethene	131	ug/L	
FAG-35	10/10/2018	Trichloroethene	597	ug/L	
FAG-35	10/10/2018	Vinyl chloride	5	ug/L	U
FAG-35	9/16/2020	cis-1,2-Dichloroethene	110	ug/L	
FAG-35	9/16/2020	Trichloroethene	512	ug/L	
FAG-35	9/16/2020	Vinyl chloride	5	ug/L	U
FAG-35	5/18/2021	cis-1,2-Dichloroethene	113	ug/L	
FAG-35	5/18/2021	Trichloroethene	488	ug/L	
FAG-35	5/18/2021	Vinyl chloride	5	ug/L	U
FAG-36	10/11/2012	cis-1,2-Dichloroethene	183	ug/L	
FAG-36	10/11/2012	Trichloroethene	508	ug/L	
FAG-36	10/11/2012	Vinyl chloride	10	ug/L	U
FAG-36	5/15/2013	cis-1,2-Dichloroethene	234	ug/L	
FAG-36	5/15/2013	Trichloroethene	567	ug/L	
FAG-36	5/15/2013	Vinyl chloride	10	ug/L	U
FAG-36	10/20/2016	cis-1,2-Dichloroethene	235	ug/L	
FAG-36	10/20/2016	Trichloroethene	566	ug/L	
FAG-36	10/20/2016	Vinyl chloride	20	ug/L	U
FAG-36	5/31/2017	cis-1,2-Dichloroethene	280	ug/L	
FAG-36	5/31/2017	Trichloroethene	585	ug/L	
FAG-36	5/31/2017	Vinyl chloride	10	ug/L	U
FAG-36	10/11/2017	cis-1,2-Dichloroethene	197	ug/L	
FAG-36	10/11/2017	Trichloroethene	676	ug/L	
FAG-36	10/11/2017	Vinyl chloride	10	ug/L	U
FAG-36	10/10/2018	cis-1,2-Dichloroethene	257	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-36	10/10/2018	Trichloroethene	672	ug/L	
FAG-36	10/10/2018	Vinyl chloride	10	ug/L	U
FAG-36	9/16/2020	cis-1,2-Dichloroethene	229	ug/L	
FAG-36	9/16/2020	Trichloroethene	531	ug/L	
FAG-36	9/16/2020	Vinyl chloride	10	ug/L	U
FAG-36	5/19/2021	cis-1,2-Dichloroethene	240	ug/L	
FAG-36	5/19/2021	Trichloroethene	535	ug/L	
FAG-36	5/19/2021	Vinyl chloride	10	ug/L	U
FAG-43	10/10/2012	cis-1,2-Dichloroethene	3.2	ug/L	
FAG-43	10/10/2012	Trichloroethene	12.2	ug/L	
FAG-43	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-43	5/15/2013	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/15/2013	Trichloroethene	1	ug/L	U
FAG-43	5/15/2013	Vinyl chloride	1	ug/L	U
FAG-43	10/19/2016	cis-1,2-Dichloroethene	9.9	ug/L	
FAG-43	10/19/2016	Trichloroethene	50.6	ug/L	
FAG-43	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-43	5/31/2017	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/31/2017	Trichloroethene	1	ug/L	U
FAG-43	5/31/2017	Vinyl chloride	1	ug/L	U
FAG-43	10/11/2017	cis-1,2-Dichloroethene	11.7	ug/L	
FAG-43	10/11/2017	Trichloroethene	34.9	ug/L	
FAG-43	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-43	10/10/2018	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	10/10/2018	Trichloroethene	1	ug/L	U
FAG-43	10/10/2018	Vinyl chloride	1	ug/L	U
FAG-43	9/16/2020	cis-1,2-Dichloroethene	23.2	ug/L	
FAG-43	9/16/2020	Trichloroethene	66.4	ug/L	
FAG-43	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-43	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
FAG-43	5/18/2021	Trichloroethene	1	ug/L	U
FAG-43	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-46	10/10/2012	cis-1,2-Dichloroethene	5.1	ug/L	
FAG-46	10/10/2012	Trichloroethene	130	ug/L	
FAG-46	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-46	5/14/2013	cis-1,2-Dichloroethene	3.5	ug/L	
FAG-46	5/14/2013	Trichloroethene	70.2	ug/L	
FAG-46	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-46	10/18/2016	cis-1,2-Dichloroethene	2.8	ug/L	
FAG-46	10/18/2016	Trichloroethene	50.6	ug/L	
FAG-46	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-46	5/27/2017	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-46	5/27/2017	Trichloroethene	47.9	ug/L	
FAG-46	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-46	10/11/2017	cis-1,2-Dichloroethene	4.7	ug/L	
FAG-46	10/11/2017	Trichloroethene	53.5	ug/L	
FAG-46	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-46	10/9/2018	cis-1,2-Dichloroethene	3.6	ug/L	
FAG-46	10/9/2018	Trichloroethene	56.9	ug/L	
FAG-46	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-46	9/16/2020	cis-1,2-Dichloroethene	5.3	ug/L	
FAG-46	9/16/2020	Trichloroethene	39	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-46	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-46	5/18/2021	cis-1,2-Dichloroethene	4	ug/L	
FAG-46	5/18/2021	Trichloroethene	27.7	ug/L	
FAG-46	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-47	10/9/2012	cis-1,2-Dichloroethene	9.7	ug/L	
FAG-47	10/9/2012	Trichloroethene	122	ug/L	
FAG-47	10/9/2012	Vinyl chloride	1	ug/L	U
FAG-47	5/14/2013	cis-1,2-Dichloroethene	9.9	ug/L	
FAG-47	5/14/2013	Trichloroethene	93.4	ug/L	
FAG-47	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-47	10/18/2016	cis-1,2-Dichloroethene	10.6	ug/L	
FAG-47	10/18/2016	Trichloroethene	76.9	ug/L	
FAG-47	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-47	5/27/2017	cis-1,2-Dichloroethene	7.7	ug/L	
FAG-47	5/27/2017	Trichloroethene	69.2	ug/L	
FAG-47	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-47	10/8/2017	cis-1,2-Dichloroethene	11.3	ug/L	
FAG-47	10/8/2017	Trichloroethene	103	ug/L	
FAG-47	10/8/2017	Vinyl chloride	1	ug/L	U
FAG-47	10/9/2018	cis-1,2-Dichloroethene	8.6	ug/L	
FAG-47	10/9/2018	Trichloroethene	63.3	ug/L	
FAG-47	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-47	9/15/2020	cis-1,2-Dichloroethene	7.9	ug/L	
FAG-47	9/15/2020	Trichloroethene	97.9	ug/L	
FAG-47	9/15/2020	Vinyl chloride	1	ug/L	U
FAG-47	5/18/2021	cis-1,2-Dichloroethene	5.9	ug/L	
FAG-47	5/18/2021	Trichloroethene	55.4	ug/L	
FAG-47	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-50	4/27/2011	cis-1,2-Dichloroethene	20	ug/L	U
FAG-50	4/27/2011	Trichloroethene	1040	ug/L	
FAG-50	4/27/2011	Vinyl chloride	20	ug/L	U
FAG-50	10/25/2011	cis-1,2-Dichloroethene	20	ug/L	U
FAG-50	10/25/2011	Trichloroethene	1350	ug/L	
FAG-50	10/25/2011	Vinyl chloride	20	ug/L	U
FAG-50	5/3/2012	cis-1,2-Dichloroethene	14.2	ug/L	
FAG-50	5/3/2012	Trichloroethene	957	ug/L	
FAG-50	5/3/2012	Vinyl chloride	1	ug/L	U
FAG-50	10/10/2012	cis-1,2-Dichloroethene	20	ug/L	U
FAG-50	10/10/2012	Trichloroethene	1290	ug/L	
FAG-50	10/10/2012	Vinyl chloride	20	ug/L	U
FAG-50	5/15/2013	cis-1,2-Dichloroethene	26.3	ug/L	
FAG-50	5/15/2013	Trichloroethene	2160	ug/L	
FAG-50	5/15/2013	Vinyl chloride	20	ug/L	U
FAG-50	10/20/2016	cis-1,2-Dichloroethene	91.5	ug/L	
FAG-50	10/20/2016	Trichloroethene	2610	ug/L	
FAG-50	10/20/2016	Vinyl chloride	20	ug/L	U
FAG-50	5/31/2017	cis-1,2-Dichloroethene	49.4	ug/L	
FAG-50	5/31/2017	Trichloroethene	2610	ug/L	
FAG-50	5/31/2017	Vinyl chloride	20	ug/L	U
FAG-50	5/19/2021	cis-1,2-Dichloroethene	62.4	ug/L	
FAG-50	5/19/2021	Trichloroethene	3220	ug/L	
FAG-50	5/19/2021	Vinyl chloride	20	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-56	10/9/2012	cis-1,2-Dichloroethene	114	ug/L	
FAG-56	10/9/2012	Trichloroethene	8.6	ug/L	
FAG-56	10/9/2012	Vinyl chloride	1	ug/L	U
FAG-56	5/14/2013	cis-1,2-Dichloroethene	122	ug/L	
FAG-56	5/14/2013	Trichloroethene	9.6	ug/L	
FAG-56	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-56	10/18/2016	cis-1,2-Dichloroethene	105	ug/L	
FAG-56	10/18/2016	Trichloroethene	15.1	ug/L	J
FAG-56	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-56	5/27/2017	cis-1,2-Dichloroethene	115	ug/L	
FAG-56	5/27/2017	Trichloroethene	9.3	ug/L	
FAG-56	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-56	10/10/2017	cis-1,2-Dichloroethene	120	ug/L	
FAG-56	10/10/2017	Trichloroethene	9.5	ug/L	
FAG-56	10/10/2017	Vinyl chloride	1	ug/L	U
FAG-56	10/9/2018	cis-1,2-Dichloroethene	113	ug/L	
FAG-56	10/9/2018	Trichloroethene	9.6	ug/L	
FAG-56	10/9/2018	Vinyl chloride	1	ug/L	U
FAG-56	9/15/2020	cis-1,2-Dichloroethene	72.2	ug/L	
FAG-56	9/15/2020	Trichloroethene	5.9	ug/L	
FAG-56	9/15/2020	Vinyl chloride	1	ug/L	U
FAG-56	5/18/2021	cis-1,2-Dichloroethene	76.8	ug/L	
FAG-56	5/18/2021	Trichloroethene	7.8	ug/L	
FAG-56	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-62	4/27/2011	cis-1,2-Dichloroethene	15.3	ug/L	
FAG-62	4/27/2011	Trichloroethene	51.7	ug/L	
FAG-62	4/27/2011	Vinyl chloride	1	ug/L	U
FAG-62	10/26/2011	cis-1,2-Dichloroethene	193	ug/L	
FAG-62	10/26/2011	Trichloroethene	185	ug/L	
FAG-62	10/26/2011	Vinyl chloride	1	ug/L	U
FAG-62	5/1/2012	cis-1,2-Dichloroethene	61.6	ug/L	
FAG-62	5/1/2012	Trichloroethene	64.9	ug/L	
FAG-62	5/1/2012	Vinyl chloride	1	ug/L	U
FAG-62	10/10/2012	cis-1,2-Dichloroethene	456	ug/L	
FAG-62	10/10/2012	Trichloroethene	103	ug/L	
FAG-62	10/10/2012	Vinyl chloride	2	ug/L	U
FAG-62	5/15/2013	cis-1,2-Dichloroethene	277	ug/L	J
FAG-62	5/15/2013	Trichloroethene	167	ug/L	
FAG-62	5/15/2013	Vinyl chloride	5	ug/L	U
FAG-62	10/19/2016	cis-1,2-Dichloroethene	13.1	ug/L	
FAG-62	10/19/2016	Trichloroethene	33.6	ug/L	
FAG-62	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-62	5/27/2017	cis-1,2-Dichloroethene	3.6	ug/L	
FAG-62	5/27/2017	Trichloroethene	33.6	ug/L	
FAG-62	5/27/2017	Vinyl chloride	1	ug/L	U
FAG-62	5/18/2021	cis-1,2-Dichloroethene	13.8	ug/L	
FAG-62	5/18/2021	Trichloroethene	23.9	ug/L	
FAG-62	5/18/2021	Vinyl chloride	1	ug/L	U
FAG-73	10/10/2012	cis-1,2-Dichloroethene	561	ug/L	
FAG-73	10/10/2012	Trichloroethene	163	ug/L	
FAG-73	10/10/2012	Vinyl chloride	415	ug/L	
FAG-73	5/16/2013	cis-1,2-Dichloroethene	425	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-73	5/16/2013	Trichloroethene	215	ug/L	
FAG-73	5/16/2013	Vinyl chloride	510	ug/L	
FAG-73	10/19/2016	cis-1,2-Dichloroethene	282	ug/L	
FAG-73	10/19/2016	Trichloroethene	249	ug/L	
FAG-73	10/19/2016	Vinyl chloride	212	ug/L	
FAG-73	5/31/2017	cis-1,2-Dichloroethene	96.6	ug/L	
FAG-73	5/31/2017	Trichloroethene	58.3	ug/L	
FAG-73	5/31/2017	Vinyl chloride	177	ug/L	
FAG-73	10/11/2017	cis-1,2-Dichloroethene	260	ug/L	
FAG-73	10/11/2017	Trichloroethene	171	ug/L	
FAG-73	10/11/2017	Vinyl chloride	140	ug/L	
FAG-73	10/10/2018	cis-1,2-Dichloroethene	305	ug/L	
FAG-73	10/10/2018	Trichloroethene	242	ug/L	
FAG-73	10/10/2018	Vinyl chloride	212	ug/L	
FAG-73	9/16/2020	cis-1,2-Dichloroethene	192	ug/L	
FAG-73	9/16/2020	Trichloroethene	132	ug/L	
FAG-73	9/16/2020	Vinyl chloride	33	ug/L	
FAG-73	5/19/2021	cis-1,2-Dichloroethene	45.8	ug/L	
FAG-73	5/19/2021	Trichloroethene	18.8	ug/L	
FAG-73	5/19/2021	Vinyl chloride	4.2	ug/L	
FAG-74	10/9/2012	cis-1,2-Dichloroethene	875	ug/L	
FAG-74	10/9/2012	Trichloroethene	575	ug/L	
FAG-74	10/9/2012	Vinyl chloride	148	ug/L	
FAG-74	5/16/2013	cis-1,2-Dichloroethene	1100	ug/L	
FAG-74	5/16/2013	Trichloroethene	1120	ug/L	
FAG-74	5/16/2013	Vinyl chloride	149	ug/L	
FAG-74	10/20/2016	cis-1,2-Dichloroethene	321	ug/L	
FAG-74	10/20/2016	Trichloroethene	200	ug/L	
FAG-74	10/20/2016	Vinyl chloride	75	ug/L	
FAG-74	5/26/2017	cis-1,2-Dichloroethene	549	ug/L	
FAG-74	5/26/2017	Trichloroethene	789	ug/L	
FAG-74	5/26/2017	Vinyl chloride	75.2	ug/L	
FAG-74	10/12/2017	cis-1,2-Dichloroethene	254	ug/L	
FAG-74	10/12/2017	Trichloroethene	101	ug/L	
FAG-74	10/12/2017	Vinyl chloride	44	ug/L	
FAG-74	10/10/2018	cis-1,2-Dichloroethene	223	ug/L	
FAG-74	10/10/2018	Trichloroethene	123	ug/L	
FAG-74	10/10/2018	Vinyl chloride	31.1	ug/L	
FAG-74	9/17/2020	cis-1,2-Dichloroethene	113	ug/L	
FAG-74	9/17/2020	Trichloroethene	37.5	ug/L	
FAG-74	9/17/2020	Vinyl chloride	11.3	ug/L	
FAG-74	5/21/2021	cis-1,2-Dichloroethene	179	ug/L	
FAG-74	5/21/2021	Trichloroethene	201	ug/L	
FAG-74	5/21/2021	Vinyl chloride	18.9	ug/L	
FAG-85	10/9/2012	cis-1,2-Dichloroethene	216	ug/L	
FAG-85	10/9/2012	Trichloroethene	671	ug/L	
FAG-85	10/9/2012	Vinyl chloride	5	ug/L	U
FAG-85	5/15/2013	cis-1,2-Dichloroethene	200	ug/L	
FAG-85	5/15/2013	Trichloroethene	596	ug/L	
FAG-85	5/15/2013	Vinyl chloride	5	ug/L	U
FAG-85	10/19/2016	cis-1,2-Dichloroethene	48.9	ug/L	
FAG-85	10/19/2016	Trichloroethene	146	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-85	10/19/2016	Vinyl chloride	5	ug/L	U
FAG-85	5/31/2017	cis-1,2-Dichloroethene	170	ug/L	
FAG-85	5/31/2017	Trichloroethene	527	ug/L	
FAG-85	5/31/2017	Vinyl chloride	2	ug/L	U
FAG-85	10/11/2017	cis-1,2-Dichloroethene	135	ug/L	
FAG-85	10/11/2017	Trichloroethene	442	ug/L	
FAG-85	10/11/2017	Vinyl chloride	10	ug/L	U
FAG-85	10/11/2018	cis-1,2-Dichloroethene	221	ug/L	
FAG-85	10/11/2018	Trichloroethene	794	ug/L	
FAG-85	10/11/2018	Vinyl chloride	2.5	ug/L	
FAG-85	9/17/2020	cis-1,2-Dichloroethene	216	ug/L	
FAG-85	9/17/2020	Trichloroethene	345	ug/L	
FAG-85	9/17/2020	Vinyl chloride	10	ug/L	U
FAG-85	5/21/2021	cis-1,2-Dichloroethene	204	ug/L	
FAG-85	5/21/2021	Trichloroethene	610	ug/L	
FAG-85	5/21/2021	Vinyl chloride	37.2	ug/L	
FAG-88	10/9/2012	cis-1,2-Dichloroethene	2.4	ug/L	
FAG-88	10/9/2012	Trichloroethene	7.3	ug/L	
FAG-88	10/9/2012	Vinyl chloride	1	ug/L	U
FAG-88	5/14/2013	cis-1,2-Dichloroethene	2.5	ug/L	
FAG-88	5/14/2013	Trichloroethene	6.4	ug/L	
FAG-88	5/14/2013	Vinyl chloride	1	ug/L	U
FAG-88	10/18/2016	cis-1,2-Dichloroethene	2.2	ug/L	
FAG-88	10/18/2016	Trichloroethene	7.1	ug/L	
FAG-88	10/18/2016	Vinyl chloride	1	ug/L	U
FAG-88	5/24/2017	cis-1,2-Dichloroethene	2	ug/L	
FAG-88	5/24/2017	Trichloroethene	6.8	ug/L	
FAG-88	5/24/2017	Vinyl chloride	1	ug/L	U
FAG-88	10/11/2017	cis-1,2-Dichloroethene	1.8	ug/L	
FAG-88	10/11/2017	Trichloroethene	5.9	ug/L	
FAG-88	10/11/2017	Vinyl chloride	1	ug/L	U
FAG-88	10/11/2018	cis-1,2-Dichloroethene	1.6	ug/L	
FAG-88	10/11/2018	Trichloroethene	5.7	ug/L	
FAG-88	10/11/2018	Vinyl chloride	1	ug/L	U
FAG-88	9/16/2020	cis-1,2-Dichloroethene	2.1	ug/L	
FAG-88	9/16/2020	Trichloroethene	7.8	ug/L	
FAG-88	9/16/2020	Vinyl chloride	1	ug/L	U
FAG-88	5/19/2021	cis-1,2-Dichloroethene	1.6	ug/L	
FAG-88	5/19/2021	Trichloroethene	6.5	ug/L	
FAG-88	5/19/2021	Vinyl chloride	1	ug/L	U
FAG-89	10/10/2012	cis-1,2-Dichloroethene	3.1	ug/L	
FAG-89	10/10/2012	Trichloroethene	33.4	ug/L	
FAG-89	10/10/2012	Vinyl chloride	1	ug/L	U
FAG-89	5/15/2013	cis-1,2-Dichloroethene	3.4	ug/L	
FAG-89	5/15/2013	Trichloroethene	37.7	ug/L	
FAG-89	5/15/2013	Vinyl chloride	1	ug/L	U
FAG-89	10/19/2016	cis-1,2-Dichloroethene	2.3	ug/L	
FAG-89	10/19/2016	Trichloroethene	20.8	ug/L	
FAG-89	10/19/2016	Vinyl chloride	1	ug/L	U
FAG-89	5/30/2017	cis-1,2-Dichloroethene	2	ug/L	
FAG-89	5/30/2017	Trichloroethene	18.8	ug/L	
FAG-89	5/30/2017	Vinyl chloride	1	ug/L	U

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Well ID	Sample Date	Sample	Value	Units	Qualifier
FAG-89	10/12/2017	cis-1,2-Dichloroethene	2.4	ug/L	
FAG-89	10/12/2017	Trichloroethene	20.9	ug/L	
FAG-89	10/12/2017	Vinyl chloride	1	ug/L	U
FAG-89	10/10/2018	cis-1,2-Dichloroethene	5.7	ug/L	
FAG-89	10/10/2018	Trichloroethene	63.6	ug/L	
FAG-89	10/10/2018	Vinyl chloride	1	ug/L	U
FAG-89	9/17/2020	cis-1,2-Dichloroethene	1.2	ug/L	
FAG-89	9/17/2020	Trichloroethene	7	ug/L	
FAG-89	9/17/2020	Vinyl chloride	1	ug/L	U
FAG-89	5/20/2021	cis-1,2-Dichloroethene	1.3	ug/L	
FAG-89	5/20/2021	Trichloroethene	10.3	ug/L	
FAG-89	5/20/2021	Vinyl chloride	1	ug/L	U
FAG-AW4	10/11/2012	cis-1,2-Dichloroethene	218	ug/L	
FAG-AW4	10/11/2012	Trichloroethene	873	ug/L	
FAG-AW4	10/11/2012	Vinyl chloride	10	ug/L	U
FAG-AW4	5/16/2013	cis-1,2-Dichloroethene	225	ug/L	
FAG-AW4	5/16/2013	Trichloroethene	912	ug/L	
FAG-AW4	5/16/2013	Vinyl chloride	10.9	ug/L	
FAG-AW4	10/20/2016	cis-1,2-Dichloroethene	270	ug/L	
FAG-AW4	10/20/2016	Trichloroethene	1150	ug/L	J
FAG-AW4	10/20/2016	Vinyl chloride	16.2	ug/L	
FAG-AW4	5/31/2017	cis-1,2-Dichloroethene	302	ug/L	
FAG-AW4	5/31/2017	Trichloroethene	1070	ug/L	
FAG-AW4	5/31/2017	Vinyl chloride	18.7	ug/L	
FAG-AW4	10/12/2017	cis-1,2-Dichloroethene	299	ug/L	
FAG-AW4	10/12/2017	Trichloroethene	1120	ug/L	
FAG-AW4	10/12/2017	Vinyl chloride	19.9	ug/L	
FAG-AW4	10/11/2018	cis-1,2-Dichloroethene	311	ug/L	
FAG-AW4	10/11/2018	Trichloroethene	1250	ug/L	
FAG-AW4	10/11/2018	Vinyl chloride	35.2	ug/L	
FAG-AW4	9/17/2020	cis-1,2-Dichloroethene	241	ug/L	
FAG-AW4	9/17/2020	Trichloroethene	966	ug/L	
FAG-AW4	9/17/2020	Vinyl chloride	23.2	ug/L	
FAG-AW4	5/19/2021	cis-1,2-Dichloroethene	292	ug/L	
FAG-AW4	5/19/2021	Trichloroethene	1150	ug/L	
FAG-AW4	5/19/2021	Vinyl chloride	24.2	ug/L	
RI-MW1	10/10/2012	cis-1,2-Dichloroethene	2.6	ug/L	
RI-MW1	10/10/2012	Trichloroethene	55	ug/L	
RI-MW1	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW1	5/14/2013	cis-1,2-Dichloroethene	3.6	ug/L	
RI-MW1	5/14/2013	Trichloroethene	85.1	ug/L	
RI-MW1	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW1	10/18/2016	cis-1,2-Dichloroethene	2.2	ug/L	
RI-MW1	10/18/2016	Trichloroethene	52.8	ug/L	
RI-MW1	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW1	5/25/2017	cis-1,2-Dichloroethene	3	ug/L	
RI-MW1	5/25/2017	Trichloroethene	96.4	ug/L	
RI-MW1	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW1	10/8/2017	cis-1,2-Dichloroethene	2.6	ug/L	
RI-MW1	10/8/2017	Trichloroethene	47.4	ug/L	
RI-MW1	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW1	10/10/2018	cis-1,2-Dichloroethene	2.8	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW1	10/10/2018	Trichloroethene	99.7	ug/L	
RI-MW1	10/10/2018	Vinyl chloride	1	ug/L	U
RI-MW1	9/15/2020	cis-1,2-Dichloroethene	1.3	ug/L	
RI-MW1	9/15/2020	Trichloroethene	47.5	ug/L	
RI-MW1	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW1	5/19/2021	cis-1,2-Dichloroethene	2	ug/L	
RI-MW1	5/19/2021	Trichloroethene	68.3	ug/L	
RI-MW1	5/19/2021	Vinyl chloride	1	ug/L	U
RI-MW2	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/10/2012	Trichloroethene	1	ug/L	U
RI-MW2	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW2	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/14/2013	Trichloroethene	1	ug/L	U
RI-MW2	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW2	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/18/2016	Trichloroethene	1	ug/L	U
RI-MW2	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW2	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/25/2017	Trichloroethene	1	ug/L	U
RI-MW2	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW2	10/8/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/8/2017	Trichloroethene	1	ug/L	U
RI-MW2	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW2	10/9/2018	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	10/9/2018	Trichloroethene	1	ug/L	U
RI-MW2	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW2	9/15/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	9/15/2020	Trichloroethene	1	ug/L	U
RI-MW2	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW2	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW2	5/18/2021	Trichloroethene	1	ug/L	U
RI-MW2	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW5	10/9/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/9/2012	Trichloroethene	5.9	ug/L	
RI-MW5	10/9/2012	Vinyl chloride	1	ug/L	U
RI-MW5	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/14/2013	Trichloroethene	4.8	ug/L	
RI-MW5	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW5	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/18/2016	Trichloroethene	18.3	ug/L	
RI-MW5	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW5	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/25/2017	Trichloroethene	12.7	ug/L	
RI-MW5	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW5	10/8/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/8/2017	Trichloroethene	17.5	ug/L	
RI-MW5	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW5	10/9/2018	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	10/9/2018	Trichloroethene	13.5	ug/L	
RI-MW5	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW5	9/15/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	9/15/2020	Trichloroethene	14.5	ug/L	

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Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW5	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW5	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW5	5/18/2021	Trichloroethene	1	ug/L	U
RI-MW5	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW6	10/10/2012	cis-1,2-Dichloroethene	5.2	ug/L	
RI-MW6	10/10/2012	Trichloroethene	29.5	ug/L	
RI-MW6	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW6	5/15/2013	cis-1,2-Dichloroethene	3.6	ug/L	
RI-MW6	5/15/2013	Trichloroethene	17.9	ug/L	
RI-MW6	5/15/2013	Vinyl chloride	1	ug/L	U
RI-MW6	10/19/2016	cis-1,2-Dichloroethene	6.4	ug/L	
RI-MW6	10/19/2016	Trichloroethene	38.1	ug/L	
RI-MW6	10/19/2016	Vinyl chloride	1	ug/L	U
RI-MW6	5/30/2017	cis-1,2-Dichloroethene	4.2	ug/L	
RI-MW6	5/30/2017	Trichloroethene	22.2	ug/L	
RI-MW6	5/30/2017	Vinyl chloride	1	ug/L	U
RI-MW6	10/11/2017	cis-1,2-Dichloroethene	5.6	ug/L	
RI-MW6	10/11/2017	Trichloroethene	30.9	ug/L	
RI-MW6	10/11/2017	Vinyl chloride	1	ug/L	U
RI-MW6	10/9/2018	cis-1,2-Dichloroethene	4	ug/L	
RI-MW6	10/9/2018	Trichloroethene	21.7	ug/L	
RI-MW6	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW6	9/15/2020	cis-1,2-Dichloroethene	7.9	ug/L	
RI-MW6	9/15/2020	Trichloroethene	40.2	ug/L	
RI-MW6	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW6	5/18/2021	cis-1,2-Dichloroethene	8.2	ug/L	
RI-MW6	5/18/2021	Trichloroethene	45.4	ug/L	
RI-MW6	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW7	10/9/2012	cis-1,2-Dichloroethene	4	ug/L	
RI-MW7	10/9/2012	Trichloroethene	31.9	ug/L	
RI-MW7	10/9/2012	Vinyl chloride	1	ug/L	U
RI-MW7	5/15/2013	cis-1,2-Dichloroethene	3.5	ug/L	
RI-MW7	5/15/2013	Trichloroethene	33.4	ug/L	
RI-MW7	5/15/2013	Vinyl chloride	1	ug/L	U
RI-MW7	10/19/2016	cis-1,2-Dichloroethene	3.3	ug/L	
RI-MW7	10/19/2016	Trichloroethene	25.5	ug/L	
RI-MW7	10/19/2016	Vinyl chloride	1	ug/L	U
RI-MW7	5/30/2017	cis-1,2-Dichloroethene	3.3	ug/L	
RI-MW7	5/30/2017	Trichloroethene	25.8	ug/L	
RI-MW7	5/30/2017	Vinyl chloride	1	ug/L	U
RI-MW7	10/11/2017	cis-1,2-Dichloroethene	4.4	ug/L	
RI-MW7	10/11/2017	Trichloroethene	32	ug/L	
RI-MW7	10/11/2017	Vinyl chloride	1	ug/L	U
RI-MW7	10/9/2018	cis-1,2-Dichloroethene	4.1	ug/L	
RI-MW7	10/9/2018	Trichloroethene	33.1	ug/L	
RI-MW7	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW7	9/15/2020	cis-1,2-Dichloroethene	1.6	ug/L	
RI-MW7	9/15/2020	Trichloroethene	11.1	ug/L	
RI-MW7	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW7	5/18/2021	cis-1,2-Dichloroethene	2.9	ug/L	
RI-MW7	5/18/2021	Trichloroethene	19.5	ug/L	
RI-MW7	5/18/2021	Vinyl chloride	1	ug/L	U

MANN KENDALL ANALYSIS INPUT - LAST 8

Well ID	Sample Date	Sample	Value	Units	Qualifier
RI-MW8	10/9/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/9/2012	Trichloroethene	3.9	ug/L	
RI-MW8	10/9/2012	Vinyl chloride	1	ug/L	U
RI-MW8	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/14/2013	Trichloroethene	3.7	ug/L	
RI-MW8	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW8	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/18/2016	Trichloroethene	3.1	ug/L	
RI-MW8	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW8	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/25/2017	Trichloroethene	3.4	ug/L	
RI-MW8	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW8	10/8/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/8/2017	Trichloroethene	3.1	ug/L	
RI-MW8	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW8	10/9/2018	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	10/9/2018	Trichloroethene	3.1	ug/L	
RI-MW8	10/9/2018	Vinyl chloride	1	ug/L	U
RI-MW8	9/15/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	9/15/2020	Trichloroethene	1.7	ug/L	
RI-MW8	9/15/2020	Vinyl chloride	1	ug/L	U
RI-MW8	5/18/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW8	5/18/2021	Trichloroethene	2.1	ug/L	
RI-MW8	5/18/2021	Vinyl chloride	1	ug/L	U
RI-MW9	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	10/10/2012	Trichloroethene	10.3	ug/L	
RI-MW9	10/10/2012	Vinyl chloride	1	ug/L	U
RI-MW9	5/14/2013	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/14/2013	Trichloroethene	9.6	ug/L	
RI-MW9	5/14/2013	Vinyl chloride	1	ug/L	U
RI-MW9	10/18/2016	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	10/18/2016	Trichloroethene	9.5	ug/L	
RI-MW9	10/18/2016	Vinyl chloride	1	ug/L	U
RI-MW9	5/25/2017	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/25/2017	Trichloroethene	6.4	ug/L	
RI-MW9	5/25/2017	Vinyl chloride	1	ug/L	U
RI-MW9	10/8/2017	cis-1,2-Dichloroethene	1.4	ug/L	
RI-MW9	10/8/2017	Trichloroethene	4.5	ug/L	
RI-MW9	10/8/2017	Vinyl chloride	1	ug/L	U
RI-MW9	10/10/2018	cis-1,2-Dichloroethene	1	ug/L	
RI-MW9	10/10/2018	Trichloroethene	4.5	ug/L	
RI-MW9	10/10/2018	Vinyl chloride	1	ug/L	U
RI-MW9	9/16/2020	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	9/16/2020	Trichloroethene	4.4	ug/L	
RI-MW9	9/16/2020	Vinyl chloride	1	ug/L	U
RI-MW9	5/19/2021	cis-1,2-Dichloroethene	1	ug/L	U
RI-MW9	5/19/2021	Trichloroethene	6.9	ug/L	
RI-MW9	5/19/2021	Vinyl chloride	1	ug/L	U
RW-341A	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/10/2012	Trichloroethene	1	ug/L	U
RW-341A	10/10/2012	Vinyl chloride	1	ug/L	U
RW-341A	5/15/2013	cis-1,2-Dichloroethene	1	ug/L	U

MANN KENDALL ANALYSIS INPUT - LAST 8

Well ID	Sample Date	Sample	Value	Units	Qualifier
RW-341A	5/15/2013	Trichloroethene	1	ug/L	U
RW-341A	5/15/2013	Vinyl chloride	1	ug/L	U
RW-341A	10/20/2016	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/20/2016	Trichloroethene	1	ug/L	U
RW-341A	10/20/2016	Vinyl chloride	1	ug/L	U
RW-341A	5/31/2017	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	5/31/2017	Trichloroethene	1	ug/L	U
RW-341A	5/31/2017	Vinyl chloride	1	ug/L	U
RW-341A	10/11/2017	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/11/2017	Trichloroethene	1	ug/L	
RW-341A	10/11/2017	Vinyl chloride	1	ug/L	U
RW-341A	10/11/2018	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	10/11/2018	Trichloroethene	1	ug/L	U
RW-341A	10/11/2018	Vinyl chloride	1	ug/L	U
RW-341A	9/17/2020	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	9/17/2020	Trichloroethene	1	ug/L	U
RW-341A	9/17/2020	Vinyl chloride	1	ug/L	U
RW-341A	5/20/2021	cis-1,2-Dichloroethene	1	ug/L	U
RW-341A	5/20/2021	Trichloroethene	1	ug/L	
RW-341A	5/20/2021	Vinyl chloride	1	ug/L	U
SW-01	10/10/2012	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/10/2012	Trichloroethene	1.6	ug/L	
SW-01	10/10/2012	Vinyl chloride	1	ug/L	U
SW-01	5/15/2013	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/15/2013	Trichloroethene	1	ug/L	U
SW-01	5/15/2013	Vinyl chloride	1	ug/L	U
SW-01	10/20/2016	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/20/2016	Trichloroethene	1	ug/L	U
SW-01	10/20/2016	Vinyl chloride	1	ug/L	U
SW-01	5/31/2017	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/31/2017	Trichloroethene	1	ug/L	U
SW-01	5/31/2017	Vinyl chloride	1	ug/L	U
SW-01	10/11/2017	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/11/2017	Trichloroethene	1.3	ug/L	
SW-01	10/11/2017	Vinyl chloride	1	ug/L	U
SW-01	10/11/2018	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	10/11/2018	Trichloroethene	1.5	ug/L	
SW-01	10/11/2018	Vinyl chloride	1	ug/L	U
SW-01	9/17/2020	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	9/17/2020	Trichloroethene	1.2	ug/L	
SW-01	9/17/2020	Vinyl chloride	1	ug/L	U
SW-01	5/20/2021	cis-1,2-Dichloroethene	1	ug/L	U
SW-01	5/20/2021	Trichloroethene	1.3	ug/L	
SW-01	5/20/2021	Vinyl chloride	1	ug/L	U

MANN KENDALL ANALYSIS OUTPUT - LAST 8

Location	Samples	Min Date	Max Date	cis-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
FAG-05	8	10/10/2012	5/19/2021	Probably Decreasing (p=0.087)	Probably Decreasing (p=0.087)	All ND
FAG-11	8	10/10/2012	5/19/2021	Decreasing (p=0.016)	Decreasing (p=0.006)	All ND
FAG-22	8	10/11/2012	5/20/2021	Decreasing (p=0.018)	Probably Decreasing (p=0.054)	Stable (p=0.268, cv=0.497)
FAG-31	8	10/11/2012	5/20/2021	Stable (p=0.451, cv=0.139)	Stable (p=0.309, cv=0.094)	All ND
FAG-32	8	10/9/2012	5/19/2021	Probably Decreasing (p=0.067)	Stable (p=0.355, cv=0.551)	All ND
FAG-33	8	10/11/2012	5/18/2021	Increasing (p=0.002)	Stable (p=0.133, cv=0.160)	All ND
FAG-34	8	10/11/2012	5/19/2021	Decreasing (p=0.001)	Decreasing (p=0.032)	Stable (p=0.106, cv=0.407)
FAG-35	8	10/11/2012	5/18/2021	Stable (p=0.133, cv=0.077)	Stable (p=0.193, cv=0.107)	All ND
FAG-36	8	10/11/2012	5/19/2021	Stable (p=0.193, cv=0.124)	Stable (p=0.355, cv=0.101)	All ND
FAG-43	8	10/10/2012	5/18/2021	No Trend (p=0.447, cv=1.229)	No Trend (p=0.500, cv=1.191)	All ND
FAG-46	8	10/10/2012	5/18/2021	Stable (p=0.355, cv=0.263)	Decreasing (p=0.018)	All ND
FAG-47	8	10/9/2012	5/18/2021	Stable (p=0.133, cv=0.184)	Probably Decreasing (p=0.054)	All ND
FAG-50	8	4/27/2011	5/19/2021	Increasing (p=0.011)	Increasing (p=0.006)	All ND
FAG-56	8	10/9/2012	5/18/2021	Probably Decreasing (p=0.087)	Stable (p=0.227, cv=0.260)	All ND
FAG-62	8	4/27/2011	5/18/2021	No Trend (p=0.193, cv=1.202)	Probably Decreasing (p=0.067)	All ND
FAG-73	8	10/10/2012	5/19/2021	Decreasing (p=0.018)	Stable (p=0.193, cv=0.500)	Decreasing (p=0.006)
FAG-74	8	10/9/2012	5/21/2021	Decreasing (p=0.005)	Probably Decreasing (p=0.087)	Decreasing (p=0.005)
FAG-85	8	10/9/2012	5/21/2021	Stable (p=0.402, cv=0.313)	Stable (p=0.451, cv=0.368)	Probably Increasing (p=0.054)
FAG-88	8	10/9/2012	5/19/2021	Decreasing (p=0.012)	Stable (p=0.268, cv=0.099)	All ND
FAG-89	8	10/10/2012	5/20/2021	Stable (p=0.133, cv=0.505)	Stable (p=0.133, cv=0.640)	All ND
FAG-AW4	8	10/11/2012	5/19/2021	Probably Increasing (p=0.087)	Probably Increasing (p=0.067)	Increasing (p=0.002)
RI-MW1	8	10/10/2012	5/19/2021	Stable (p=0.106, cv=0.258)	Stable (p=0.500, cv=0.296)	All ND
RI-MW2	8	10/10/2012	5/18/2021	All ND	All ND	All ND
RI-MW5	8	10/9/2012	5/18/2021	All ND	Stable (p=0.500, cv=0.551)	All ND
RI-MW6	8	10/10/2012	5/18/2021	Probably Increasing (p=0.087)	Probably Increasing (p=0.087)	All ND
RI-MW7	8	10/9/2012	5/18/2021	Stable (p=0.159, cv=0.242)	Stable (p=0.193, cv=0.279)	All ND
RI-MW8	8	10/9/2012	5/18/2021	All ND	Decreasing (p=0.005)	All ND
RI-MW9	8	10/10/2012	5/19/2021	Stable (p=0.371, cv=0.473)	Decreasing (p=0.012)	All ND
RW-341A	8	10/10/2012	5/20/2021	All ND	Stable (p=0.122, cv=0.346)	All ND
SW-01	8	10/10/2012	5/20/2021	All ND	Stable (p=0.350, cv=0.421)	All ND

APPENDIX E

Missouri Department of Natural Resources and USEPA Comments (February 2022)

APPENDIX E: MISSOURI DEPARTMENT OF NATURAL RESOURCES AND USEPA COMMENTS (FEBRUARY 2022)

1. **Section 2, Page 2.** USEPA is referenced but has not yet been defined. Please define.

   Ramboll Response: USEPA has been added to Section 1 and definition of its acronym is also provided.

2. **Section 2, Page 2.** Special area 2 in the Missouri well construction rules is cited. Special area 2 is now referred to as Area 11. Please refer to the CSR division 23, chapter 3 for more information.

   Ramboll Response: Section 2 has been updated to reference 10 CSR 23-3.090 (11), Area 11.

3. **Section 3.2.1. Page 5.** The final paragraph is not clear. Has total depth been recorded annually historically? Is there a specific reason it was not collected in this sampling event? Will total depth be measured in every year's sampling event, or on some kind of periodic schedule?

   Ramboll Response: Section 3.2.1 has been adjusted to provide clarification regarding historical measurement of total well depths.

   In addition, the updated Remedial Action (RA) Sampling and Analysis Plan describes routine measurement to be conducted of the total depths of monitoring wells.

4. **Section 3.2.2, Page 6.** The second paragraph on page 6 states: "Field-measured stabilization parameters were collected during purging and sampling activities as described in the RAWP The multi-parameter meters utilized were calibrated on a daily basis..." However, the Amended RAWP includes no procedures for calibration and operation beyond referencing the equipment manual, and no current equipment manuals or model numbers are provided. Additional details and plan updates appear necessary. Please ensure the revision to the site QAPP includes this information.

   Ramboll Response: Section 3.2.2 has been updated to provide additional details on the multi-parameter meters utilized and confirmed they were calibrated following procedures provided in the equipment manual.

   In addition, the updated RA Sampling and Analysis identifies the model number of the multi-parameter meters to be utilized and provides general calibration information as well as the associated equipment manual which includes specific calibration instructions.

5. **Section 3.3, Page 8.** Please define field water quality parameters: SC, ORP, DO.

   Ramboll Response: Definition of the acronyms for the field-measured water quality parameters specific conductance (SC), oxidation reduction potential (ORP) and dissolved oxygen (DO) were already provided in preceding Section 3.2.2.1.

6. **Section 3.5.3, Page 13.** Consider adding a section discussing weather conditions leading up to the sampling event. Precipitation could have a major impact on the concentrations in surface water and should be discussed in the text as well as noted in the field log.

   Ramboll Response: Section 3.5.3 has been updated to include a section summarizing precipitation and leading up to and at the time of the collection of the surface water samples and discussing detected concentrations of compounds of concern (COCs). This section and associated discussion will be provided in future RA reports.

   The updated RA Sampling and Analysis Plan has more specifically identified recording weather conditions (including precipitation) during each sampling event.

7. **Section 3.6.2, Page 15.** The first bullet on page 15 states: "The laboratory only reported results at concentrations above reporting limits (RLs) as specified in the QAPP Although not specifically required by the QAPP, method detection limits (MDLs) for volatile organic compounds (VOCs) will be requested to be additionally provided in analytical reports during future monitored natural attenuation (MNA) sampling events." As noted above, the QAPP should be updated and submitted for review. Revisions should clarify that analytical results will be reported to the laboratory reporting limit; additionally, analytical results below the laboratory reporting limit and above the method detection limit will be flagged and reported as estimated.

   Ramboll Response: The updated RA Sampling and Analysis Plan has specifically identified having laboratory analytical reports provide both the reporting and method detection limits for VOCs.

8. **Section 4.2, Page 16-18.** Section 4.2 discusses the calculation of trend statistics. EPA checked the near-term statistics and noted some discrepancies (see attached spreadsheet). Please verify the near-term trend calculations presented for locations FAG-32, FAG-33, and RI-MW7. At these locations, differences in the near-term statistics are not attributable to the number of data points (eight) or the level of confidence (95%, no "probably"), but may reflect choice of test, random seed where used, or error. Revise section to include a discussion of limitations associated with the data set and associated statistics.

   Ramboll Response: Section 4.2 has been updated to describe additional verification conducted of the recent MNA temporal trend calculations.

   In order to verify the Mann-Kendall temporal trends calculated by Python script in the 2021 annual report, Ramboll ran the same near-term data set (eight most recent data points) through another internal Mann-Kendall script. This script is run using the Wolfram Mathematica software system and utilizes the same Mann-Kendall trend test. The results of the Mann-Kendall test using the Mathematica software are identical to those of the Python script (though the script used in the Mathematica software does not make a distinction between “Stable,” “No Trend” or “ND” based on variance). The following table summarizes the near-term

trichloroethylene (TCE) trend results of the Python script, USEPA provided results, and the Mathematica software.

Random seed (defined as the number or vector used to initialize the generation of a random number sequence) is not applicable to the Mann Kendall test and therefore cannot be the cause for differences in trends for wells FAG-32, FAG-33 and RI-MW7. Because Ramboll verified the trends using two different internally sourced scripts on different software platforms (Python and Wolfram Mathematica), the differences in trends noted by USEPA for wells FAG 32, FAG-33 and RI-MW7 are likely due to variation between Ramboll's Mann-Kendall test parameters and EPA's. Discussion with EPA would be required to assess the specific cause.

LOCATION	PYTHON TREND	USEPA TREND	MATHEMATICA TREND
FAG-43	No Trend	No Trend	No Trend
FAG-22	Probably Decreasing	Decreasing	Probably Decreasing
FAG-56	Stable	No Trend	No Trend
FAG-31	Stable	No Trend	No Trend
FAG-32	**Stable**	**Decreasing**	**No Trend**
FAG-73	Stable	No Trend	No Trend
FAG-74	Probably Decreasing	Negative Prediction	Probably Decreasing
FAG-33	**Stable**	**Increasing**	**No Trend**
FAG-34	Decreasing	Decreasing	Decreasing
FAG-35	Stable	No Trend	No Trend
FAG-36	Stable	No Trend	No Trend
FAG-85	Stable	No Trend	No Trend
FAG-46	Decreasing	Decreasing	Decreasing
FAG-47	Probably Decreasing	No Trend	Probably Decreasing
FAG-50	Increasing	Increasing	Increasing
FAG-62	Probably Decreasing	Negative Prediction	Probably Decreasing
RI-MW1	Stable	No Trend	No Trend
RI-MW2	ND	ND (1U)	No Trend
FAG-AW4	Probably Increasing	No Trend	Probably Increasing

LOCATION	PYTHON TREND	USEPA TREND	MATHEMATICA TREND
FAG-05	Probably Decreasing	No Trend	Probably Decreasing
FAG-11	Decreasing	Negative Prediction	Decreasing
FAG-88	Stable	No Trend	No Trend
FAG-89	Stable	No Trend	No Trend
RI-MW5	Stable	No Trend	No Trend
RI-MW6	Probably Increasing	No Trend	Probably Increasing
RI-MW7	**Stable**	**Decreasing**	**No Trend**
RI-MW8	Decreasing	Decreasing	Decreasing
RI-MW9	Decreasing	Decreasing	Decreasing

9. **Section 4.2.2, Page 18-19.** The continued presence of elevated, stable-to-increasing COC concentrations in groundwater wells adjacent to and south of the former TCE transfer pipeline trench potentially implies that source contributions to groundwater are continuing. Recommendation is to explore and add discussion indicating whether additional source control(s) could more effectively support timely site restoration of groundwater.

   Ramboll Response: FAG Bearings recognizes the presence of certain stable and/or increasing COC temporal trends in specific wells and will review potential options to enhance the selected natural attenuation remedy in conjunction with the updated RA MNA data set to be collected from the near-term routine monitoring tentatively planned to be conducted in May 2022.

10. **Sections 4.2.2, Page 20; 4.2.3, Page 21; 4.2.6, Page 24; and 4.2.7, Page 25.** USEPA suggest that additional discussion of potential plume expansion and/or migration appears warranted in the Annual Report. The discussion of near-term measured TCE concentration changes in Sections 4.2.3 and 4.2.7 notes an overall percentage increase laterally downgradient of the FAG Bearings property in the Upper Groundwater/Bedrock Interface zone and directly beneath portions of the FAG Bearings property in the Mississippian Aquifer. The overall percentage change calculations imply that TCE is continuing to migrate laterally and vertically downgradient of the FAG Bearings property at concentrations above the maximum contaminant level (MCL). Note that USEPA groundwater restoration policy states: "Groundwater contamination should not be allowed to migrate and further contaminate the aquifer or other media" (EPA 2009).

    Ramboll Response: The previous 2020 RA annual report indicated decreases in the calculated overall percentage of measured TCE in Upper

Groundwater/Bedrock Interface wells down-gradient of the FAG Bearings property and in Mississippian Aquifer wells on the FAG Bearings property. These variations in overall percentages appear to imply fluctuations in near-term data versus continuing migration of COCs.

As noted in the USEPA memorandum of comments to the 2020 RA annual report dated July 20, 2021 (Specific Comment 6); "USEPA determines when a groundwater restoration remedial action is actively occurring and/or completed by evaluating contaminant of concern (COC) concentrations on a well-by-well basis."

Consequently, the focus of determining RA progress will continue to be based primarily on COC temporal trend analyses with calculated percentage changes in concentrations of COCs in specific areas provided primarily for discussion and perspective purposes.

11. **Section 4.3, Page 26-32.** The MNA discussion as presented is primarily limited to observations of indicator parameters and should be expanded to include the following:

    a. Attenuation Rate: Per USEPA policy (EPA 2009), the return of groundwater to beneficial use should occur within a reasonable timeframe. Calculation of attenuation rates or restoration timeframes is recommended to support this evaluation. In the Mississippian Aquifer, USEPA calculations (see attached spreadsheet) indicate that trends are stable to decreasing in most wells, with restoration estimated by year 2036 or sooner. However, restoration timeframes could not be calculated for the following wells (see below), indicating that cleanup under a strictly MNA remedy is unlikely to occur under any timeframe.

        i. FAG-AW4 (FAG Bearing property)
            1. TCE: Stable/no trend (95% confidence) to "probably increasing" trend (90% confidence) with 95% UCL [1,150 micrograms per liter (µg/L) and May 2021 (1,150 µg/L) concentrations exceeding the MCL.
            2. Vinyl chloride: Increasing trend (95% confidence) with 95% UCL (33 µg/L) and May 2021 (24.5 µg/L) concentrations exceeding the MCL.

        ii. RI-MW6 (villages south)
            1. TCE: Stable/no trend (95% confidence) to "probably increasing" trend (90% confidence) with 95% UCL (37.3 µg/L) and May 2021 (45.4 µg/L) concentrations exceeding the MCL.

    To the extent that cleanup of the Upper Aquifer/Bedrock Interface zone is appropriate, this zone has even more wells with chlorinated solvent concentrations significantly exceeding MCLs and often with stable to increasing concentration trends. At these wells, cleanup under a strictly MNA remedy is similarly unlikely to occur under any timeframe.

FAG Bearings recognizes the presence of certain stable and/or increasing COC temporal trends in specific wells and will review potential options to enhance the selected natural attenuation remedy in conjunction with the updated RA MNA data set to be collected from the near-term routine monitoring tentatively planned to be conducted in May 2022.

b. Attenuation Completeness: Accumulation of intermediate daughter products of TCE (e.g., vinyl chloride at FAG-AW4) and a lack of final daughter products of TCE (e.g., methane, ethane, ethene at most well locations) may indicate that TCE attenuation is occurring more slowly or stalling out before completion. Additional evaluation of this process should be provided in the Annual Report, including discussion of whether the MNA remedy would benefit from enhancement(s).

Ramboll Response: The Mississippian Aquifer has been determined to be subject to natural attenuation processes primarily through hydrodynamic dispersion. Consequently, Mississippian Aquifer wells (including FAG-AW4) display limited degradation daughter products particularly in comparison to uppermost groundwater which has been determined to be subject to natural attenuation processes primarily through biodegradation.

Uppermost groundwater wells displaying indications of advanced biodegradation (i.e., higher concentrations of the TCE daughter product vinyl chloride) also display elevated concentrations of methane indicating active and ongoing biodegradation in these wells.

FAG Bearings recognizes the presence of certain stable and/or increasing COC temporal trends in specific wells and will review potential options to enhance the selected natural attenuation remedy in conjunction with the updated RA data set from the routine monitoring tentatively planned to be conducted in May 2022.

12. **Section 5.0, Page 33.** Upper Groundwater Wells, first conclusion, states, "[biodegradation] continues to actively reduce the mass of the remnant impact." The analysis of sampling data only discusses concentration trends, while concentration and contaminant mass are closely related, they are not equivalent. Further analysis of data is necessary to support any statements about contaminant mass.

Ramboll Response: See response to Comment 13. The referenced statement has been revised as suggested.

13. **Section 5.0, Page 35-36.** RAs and Potential Additional RAs, second to last paragraph, states, "MNA has been determined to continue to be effective with regard to the NCWS in reducing the calculated mass and overall concentrations of groundwater impact..." Similar to previous comment, has contaminant mass be calculated? If so, please include that calculation and discussion in the text. If no contaminant mass has been calculated, please revise statement.

Ramboll Response: A mass analysis is provided in the NCWS Remedial Investigation (RI) report which included calculation by 3-dimensional software using data from extensive temporary soil and groundwater data points and maximum detected concentrations from permanent wells. The analysis determined the vast majority of TCE released has been eliminated by means of the intensive chemical oxidation treatments conducted at the source (i.e., the former TCE pipeline trench).

The remedial objectives in the RA Consent Decree specify reduction in concentrations of TCE and TCE degradation products which has consequently been the focus of RA assessment. The mass of impact has been determined more recently by inference rather than being specifically calculated.

The referenced statement has been revised as suggested.

14. **Section 5.0, Page 36.** Section 5.0 includes the following criterion from the Second Five Year Report: "If MNA parameters do not appear to be occurring near the former trench and/or if a significant decreasing trend in TCE levels is not observed in the Mississippian Aquifer consider the implementation of ISCO injections." Based on information presented in Section 4.3.1, MNA parameters may be favorable immediately adjacent to the trench but are not so directly south of the trench. Although some wells in the Mississippian Aquifer indicated decreasing TCE trends at 95% significance (last eight data points), the majority exhibited no trend at 95% significance (stable or probably increasing at 90% significance). Moreover, an overall percentage increase in TCE concentration was noted directly beneath portions of the FAG Bearings property in the Mississippian Aquifer. Considering these and other factors noted above, additional evaluation of MNA remedy enhancements is recommended. The next annual report should include a section detailing potential remedy enhancements that could be applied to achieve timely restoration of groundwater to beneficial use and the specific criteria that will demonstrate their successful implementation.

    Ramboll Response: FAG Bearings recognizes the presence of certain stable and/or increasing COC temporal trends in specific wells and will review potential options to enhance the selected natural attenuation remedy in conjunction with the updated RA data set from the routine monitoring tentatively planned to be conducted in May 2022.

15. **Appendix A.** The calibration records appear incomplete, such that the timing and the standards for checking or performing calibration are not currently specified. In future annual reports, more complete calibration information should be provided, along with a discussion of whether calibration is acceptable. Further, the calibration procedures, requirements and related information should be clearly provided in an update to the sites planning documents.

    Ramboll Response: The updated RA Sampling and Analysis Plan has specified calibration procedures and information to be captured and reported with regard to field instrumentation.

16. **Figures:** The text separates the uppermost groundwater wells into 5 areas, and the Mississippian Aquifer wells into 2 areas. These areas should also be shown in the figures.

    Ramboll Response: Figures 3-4A and 3-4B have been created to visually denote the general grouping of uppermost groundwater wells and Mississippian Aquifer wells (respectively), as summarized in the report text and Table 3-3.

17. **General Comment:** The analysis presented in the annual report is not sufficient to evaluate the effectiveness of MNA. Please consider the following:

    - Annual iso-contour maps would be of significant utility to visually show the change in contaminant extent and severity from year to year. However, specific site conditions may limit the accuracy of iso-concentration plume maps as a representation of the actual location of contamination due to karst/fractured conditions.

      Ramboll Response: Agreed that sit-specific geologic conditions and features including karst and fractures in bedrock as well as the significant variation in the buried bedrock topographic surface in certain areas have the potential to limit the accuracy and usefulness of standard iso-concentration plume maps. Tabulated concentrations of TCE and TCE degradation compounds measured throughout the RA are provided in figures specific to each COC to provide a general visual depiction of measured concentrations in uppermost groundwater (Figures 4-1A through 4-1C) and Mississippian Aquifer (Figures 4-2A through 4-2C) specific to each sampling event.

    - Estimated contaminant mass should be calculated yearly to consider sitewide temporal trends in total contaminant mass. An analysis of total estimated contaminant mass remaining could be useful to make an estimation of cleanup timeframe.

      Ramboll Response: The remedial objectives in the RA Consent Decree specify reduction in concentrations of TCE and TCE degradation products which has consequently been the focus of RA assessment. Temporal trends of the concentrations of TCE and TCE degradation products provide the most direct and accurate measurement towards the achievement of NCWS remedial objectives.

      As described in the RI report, up to 18 gallons or more of TCE was calculated to have been destroyed by multiple in-situ chemical oxidation treatments of the former TCE pipeline trench source area. In comparison, up to approximately 3.4 gallons of TCE was calculated to be in the overburden soils and groundwater (exclusive of the former TCE pipeline trench) and 0.5 gallons of TCE in the Mississippian Aquifer. These calculations were completed using the very extensive data set created for work associated with the Engineering Evaluation/Cost Analysis (EE/CA) and

RI described in the response to the comment below. Calculation of TCE mass for the limited remnant mass in the overburden and Mississippian Aquifer with the data set provided by the ongoing RA would likely not provide a reliable means to accurately track progress towards achieving remedial objectives.

- Internal review of data does not seem to suggest that the contaminant plume is well delineated under the current monitoring network.
  - There appears to be significant spatial data gaps north and east of the site for the Mississippian Aquifer wells. Although this area is up and cross gradient to groundwater flow direction, it should still be delineated.
  - There appears to be significant spatial data gaps north, east and south of the site in the uppermost groundwater monitoring network.
  - RI-MW1 has detections of TCE on the order of 10-100, while wells RI-MW2 (East of RI-MW1) and FAG-43(Northwest of RI-MW1) are non-detect. The boundaries of the plume following the line of wells FAG-47, FAG-46 and RI-MW1 from the source areas in the uppermost groundwater do not appear to be delineated.

Clear delineation of the contamination is necessary to support the use of MNA. The existing monitoring network may not be sufficient. Additional discussion of improvements to the monitoring well network is necessary.

Ramboll Response: Thorough and significant determinations of the NCWS conditions have been completed and the RA was crafted based upon those detailed findings. This included defining the nature and extent and fate and transport of contamination through extensive investigations completed for the EE/CA and subsequent RI. The EE/CA and RI incorporated pre-existing site investigation data and wells and were implemented following MDNR-approved work plans to include completion of the following:

- Continuously sampled 396 soil borings representing over 10,000 feet of overburden stratigraphy.
- Use of an onsite mobile laboratory for sample analysis to direct investigation and delineation activities in real time, consisting of:
  - 1,823 soil samples analyzed for target VOCs; and
  - 263 groundwater samples analyzed for target VOCs.
- Confirmation of mobile laboratory soil and groundwater results through fixed-base laboratory analysis of 543 split samples.
- Analysis of 252 permeability and passive soil gas samples.
- Installation of 65 uppermost groundwater wells.
- Hydraulic conductivity testing of approximately 30 uppermost groundwater wells
- Tracer test studies in overburden groundwater using sodium bromide

within the area immediately down-gradient of the former TCE pipeline trench and within the impacted area southwest of the former TCE pipeline trench.

- Sampling of 24 residential wells on every other month basis for a total of six sampling events.
- Five surface water and sediment samples.
- Installation of three continuously cored angled bedrock borings which were subsequently subject to geophysical analysis and in-situ interval hydraulic conductivity testing.
- Conversion of one angled boring into a Mississippian Aquifer monitoring well.
- Installation of seven Mississippian Aquifer monitoring wells of which five were installed in the Villages of Silver Creek and Saginaw to replace the need for sampling residential wells and provide for subsequent abandonment of specific residential wells.
- Pumping tests of the seven new Mississippian Aquifer monitoring wells.
- Installation of one monitoring well into the deeper Cambro-Ordovician Aquifer.

18. **Appendices.** It is recommended that inspection and maintenance forms as outlined in the vapor intrusion mitigation system operations and maintenance plan be included in the annual report, along with a brief description of the systems operations and maintenance (O&M).

Ramboll Response: As previously reported, four consecutive quarterly sampling events conducted with respect to sub-slab and indoor air conditions at the FAG Bearings facility determined that COCs did not exceed applicable exposure screening levels in indoor air. The two sub-slab depressurization systems (SSDS) installed by FAG Bearings serve as voluntary and proactive measures while continued operation is not required from a health and safety perspective. However, FAG Bearings is committed to continuing operation and the systems have continued to operate since installation and start-up in 2019

The continued commitment of FAG Bearings to operate the two voluntary depressurization systems as provided in the operation and maintenance plan were discussed with the MDNR Project Manager after the systems commenced operation. As communicated with the MDNR Project Manager, the facility documents inspections (and any necessary maintenance) using internal e-documentation to centralize management and scheduling efficiencies in the same general manner as other routine tasks conducted at the facility. The internal facility e-documentation is maintained at the facility and can be made available for on-site review.