TOEROEK
ASSOCIATES, INC.

June 15, 2022

Ms. Lisa Dunning
Task Order Contracting Officer's Representative
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Subject: Contract No. 68HERH19D0018; Task Order No. 68HE0719F0190
31st & Prospect Development Site
2501, 2503, and 2505 East 30th Street; 3012 Prospect Avenue; and 3005, 3009, 3011, and 3015 Wabash Avenue, Kansas City, Jackson County, Missouri
Phase II Environmental Site Assessment, Quarter 2

Dear Ms. Dunning:

Toeroek Associates, Inc. (Toeroek) and our teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter "Toeroek Team") are pleased to present the Phase II Environmental Site Assessment (ESA), Quarter 2 report regarding the 31st & Prospect Development Site (the Site) located in Kansas City, Jackson County, Missouri.

This deliverable has been reviewed internally as part of Tetra Tech's quality assurance program, as well as Toeroek's quality assurance program, and is consistent with Toeroek's Quality Management Plan for the Resource Conservation and Recovery Act (RCRA) Enforcement and Permitting Assistance (REPA) contract. Documentation of this review is retained in the Toeroek Team's project files.

If you have any questions or comments, please contact Greg Hanna at 720-898-4102 or Kaitlyn Mitchell at 816-412-1742.

Sincerely,

Greg Hanna
Toeroek Team Program Manager

Kaitlyn Mitchell
Toeroek Team Project Manager

Enclosure

cc: Leeanna Balsley, EPA Region 7 (cover letter only)
Heather Wood, Tetra Tech
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TARGETED BROWNFIELDS ASSESSMENT
PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 2

31st & PROSPECT DEVELOPMENT SITE
2501, 2503, AND 2505 EAST 30th STREET; 3012 PROSPECT AVENUE; AND 3005, 3009, 3011, AND 3015 WABASH AVENUE
KANSAS CITY, JACKSON COUNTY, MISSOURI

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 7

Task Order	:	68HE0719F0190
Subtask	:	08.03
EPA Region	:	7
Date Prepared	:	June 15, 2022
Contract No.	:	68HERH19D0018
Prepared by	:	Toeroek Team
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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Toeroek Associates, Inc. (Toeroek) and its teaming subcontractor, Tetra Tech, Inc., (hereafter "Toeroek Team") with providing technical support to the EPA Region 7 Brownfields Program under Contract 68HERH19D0018, Task Order 68HE0719F0190. EPA Region 7 requested the Toeroek Team conduct a Phase II Environmental Site Assessment (ESA) as part of a Targeted Brownfields Assessment (TBA) of a portion of the 31st & Prospect Development Site (the Site). The focus of this ESA is eight parcels of land located at 2501, 2503, and 2505 East 30th Street; 3012 Prospect Avenue; and 3005, 3009, 3011, and 3015 Wabash Avenue in Kansas City, Jackson County, Missouri (Appendix A, Figure 1).

The Toeroek Team is performing the Phase II ESA based on results of previous investigations by CEG Assessments (CEG) (CEG 2016), Ramboll Environ (Ramboll) (Ramboll 2016), and SCS Engineers (SCS) (SCS 2018, 2019). The previous investigations occurred over a larger, 52-parcel area also known as the 31st & Prospect Development Site. During those previous investigations in the larger, 52-parcel area, a plume of volatile organic compounds (VOCs) in groundwater was identified under eight parcels within the Site. According to the Brownfields Assessment Application (EPA 2020), the current property owner, CRV, LLC, and the City of Kansas City, Missouri are interested in redeveloping the property, contingent on the findings of this Phase II ESA.

The scope of the Phase II ESA included collection of subsurface soil, soil-gas, and groundwater samples in January 2022, to confirm or eliminate recognized environmental conditions (RECs) identified during the previous Phase I ESA (SCS 2018) and multiple Phase II ESAs (CEG 2016, Ramboll 2016, SCS 2019). In addition, the Toeroek Team installed three permanent groundwater monitoring wells on the Site for long-term groundwater monitoring that will aid potential remediation under the State of Missouri's Brownfields/Voluntary Cleanup Program (BVCP) (Toeroek 2022). The Toeroek Team is now conducting quarterly groundwater sampling of these monitoring wells. This report details the events of the second sampling event at the Site.

This Phase II ESA, Quarter 2, report is consistent with ASTM International (ASTM) Standard E1903-19 for Phase II ESAs, and otherwise complies with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

1.1 PURPOSE

Purposes of the Phase II ESA were to: (1) confirm or eliminate RECs identified during previous investigations; (2) acquire information regarding natures and concentrations of contaminants present at the Site in soil and/or groundwater; (3) assess potential impacts on the Site and risks posed by hazardous substances that would support informed business decisions about the Site; and (4) where applicable, satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II ESA.

2.0 BACKGROUND AND SITE HISTORY

This section specifies the location of the Site and its features, describes the physical setting, recounts the history of the Site, discusses land uses at the Site and adjacent properties, and relates results of previous investigations.

2.1 SITE DESCRIPTION AND FEATURES

The Site is located in Kansas City, Jackson County, Missouri, and appears on the Kansas City, Missouri – Kansas Quadrangle, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 2021) (Appendix A, Figure 1). The Site consists of eight vacant parcels, encompassing approximately 1 acre of land. Coordinates at the approximate center of the Site are 39.071081 degrees north latitude and 94.553162 degrees west longitude.

2.2 PHYSICAL SETTING

The Site lies within the east-central portion of the City of Kansas City, Missouri. It is bounded to the north by East 30th Street and residential buildings beyond; to the east by Prospect Avenue and commercial businesses beyond; to the south-southeast by Rent-A-Center Furniture Store and parking lot, the Kansas City Public Library and parking lot, and East 31st Street beyond; to the west by Wabash Avenue and residential buildings beyond; to the and north-northwest by a vacant building with East 30th Street beyond.

2.2.1 Geologic Setting

Jackson County lies within west-central Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of Jackson County. The northern part of Jackson County is a near-level flood plain of the Missouri River. Adjacent to the flood plain and to the south are moderately sloping to steep, loess-covered bluffs and hills. The remainder of Jackson County, which includes the Site area, consists of gently to moderately sloping uplands and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

The upper bedrock formation in the vicinity of the Site consists of the middle Kansas City Group, Missourian Series, Pennsylvania System (Missouri Bureau of Geology and Mines 1917). Underlying the Kansas City Group are the shales of the Pleasanton Group. Underlying the Pleasanton Group are

predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (Missouri Department of Natural Resources [MoDNR] 1997).

Soil at the Site has been classified according to USDA Soil Conservation Services Web Soil Survey, reviewed in January 2022. The soils consist of urban land, Harvester Complex with 2 to 9 percent slopes. This soil type is moderately well drained with high runoff and consists of silt loam from 0 to 7 inches deep, silty clay loam from 7 to 31 inches deep, and clay loam from 31 to 80 inches deep (USDA 2022).

2.2.2 Hydrogeology

Land surface elevations in Jackson County range from 1,105 feet (ft) above mean sea level (amsl) on the divide in the south-central part of the County to 690 ft amsl at normal water level on the Missouri River located on the county line of most of the northern side of the county (USDA 1984). Local topographic elevation at the center of the Site is approximately 980 ft amsl (USGS 2021).

Local Pennsylvanian-age bedrock units generally yield low quantities of marginal quality groundwater high in dissolved solids—particularly chlorides, iron, and bicarbonates (Stohr, St. Ivany, and Williams 1981).

Groundwater is not currently used for drinking water at or near the Site. The City of Kansas City derives approximately 80 percent of its drinking water from the Missouri River and approximately 20 percent from a well field in the Missouri River Aquifer. The potable water passes through a 240-million-gallon-per-day (MGD) treatment plant before servicing customers inside and outside Kansas City (KC Water 2022). No private drinking water wells are within a 1-mile radius of the Site (MoDNR 2022).

Numerous drainageways dissect the bedrock in this area and flow toward the Missouri River. The Site is relatively flat and slopes to the northwest. Shallow groundwater perches seasonally at top of bedrock or other competent layers in the subsurface. Transient water also may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops (Stohr, St. Ivany, and Williams 1981).

The hydrologic gradient at the Site is not known but may be inferred to be consistent with the topographic gradient, which extends primarily in the north-northwest direction. Groundwater depth and direction likely vary with seasonal changes, precipitation, and other unknown hydrogeologic features. The static water level, measured at the Site at the time of the January 2022 sampling, was approximately 962 to 980 ft amsl.

2.2.3 Hydrology

Most of the Site is flat and slopes to the north-northwest toward U.S. 49 Highway and beyond to the Missouri River, which is located approximately 3.4 miles to the north-northwest of the Site.

2.2.4 Meteorology

Annual average rainfall in the City of Kansas City, Missouri is 37 inches. Average summer highs are approximately 89 degrees Fahrenheit (°F). Average winter lows are approximately 21°F (National Weather Service 2022).

2.3 SITE HISTORY AND LAND USE

The Site has been developed since at least as early as 1896 and has been comprised of a mixed residential and commercial area, with Prospect Avenue as a commercial corridor and residential properties to the west of Prospect Avenue. A 5,000-square-foot building was present on the 3012 Prospect Avenue property from at least as early as 1951 to 2017, when it was demolished (SCS 2018). Historically, commercial and retail businesses at that parcel included automobile service, filling stations, and dry cleaners.

2.4 ADJACENT PROPERTY USE

Surrounding properties have been developed since as early as the late 1800s and early 1900s, and historically have hosted residential properties and various commercial businesses, including automobile service, filling stations, printing facilities, and dry cleaners (SCS 2018).

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

Multiple Phase I and Phase II ESAs have been performed at the Site. During Phase I ESA investigations, the parcels comprising the Site were found to have previously hosted retail businesses including automobile service facilities, filling stations, and dry cleaners. Phase II ESA investigations have identified petroleum compounds and additives and chlorinated solvents commonly associated with dry cleaning activities, and their breakdown products, at high concentrations in soil, soil-gas, and groundwater.

The Toeroek Team performed the initial sampling event for this Phase II ESA from January 11 through 14, 2022. Activities included the sampling of subsurface soil, soil-gas, and groundwater, and installing three permanent groundwater monitoring wells (Toeroek 2022).

Low to moderate concentrations of VOCs were identified in nearly all soil, soil-gas, and groundwater samples. Concentrations of multiple chemicals of concern (COC) exceeded Missouri Risk-based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs) and EPA Maximum Contaminant Levels (MCLs) in all media. Benzene concentration exceeded the MRBCA Tier 1 Risk-based Target Level (RBTL) in soil-gas sample SG-8. Concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) exceeded EPA MCLs and MRBCA LDTLs in all three groundwater samples, and concentrations of PCE exceeded MRBCA RBTLs in the groundwater sample collected from monitoring well MW-2 (Toeroek 2022).

3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

The following subsections describe the scope, field exploration, and methods implemented during the Phase II ESA, Quarter 2 sampling event. On April 19, 2022, Toeroek Team members Stephanie Caples and Zach Usher conducted groundwater sampling of three monitoring wells installed by the Toeroek Team in January 2022. Photographs taken to document field activities from the Phase II ESA, Quarter 2 sampling event are provided in Appendix B. Field activities were documented in a logbook (Appendix C).

3.1 SCOPE OF THE ASSESSMENT

The Toeroek Team performed environmental sampling to assess the current level of contamination in groundwater at the Site. Sampling was consistent with the Quality Assurance Project Plan (QAPP) approved by EPA on November 4, 2021 (Toeroek 2021).

3.1.1 Sampling Plan

The proposed sampling scheme for this project incorporated a combination of biased/judgmental sampling with definitive laboratory analysis, in accordance with procedures included in the *Guidance for Performing Site Inspections Under CERCLA* (Office of Solid Waste and Emergency Response [OSWER] Directive #9345.1-05, September 1992). The objective of the groundwater sampling were to characterize possible releases to the environment. Figure 2 in Appendix A depicts sampling locations at the Site. Three groundwater samples were collected, one at each of three permanent groundwater monitoring well locations, MW-1, MW-2, and MW-3.

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on likely present contaminants associated with current and historical uses of the Site, and results from previous investigations. All groundwater samples were submitted to Pace Analytical (Pace) located in Lenexa, Kansas, for VOC analysis via EPA Method 8260.

3.1.3 Deviations from the QAPP

There were no deviations from the QAPP.

3.2 FIELD ACTIVITIES

Field activities were conducted at the Site on April 19, 2022. Groundwater samples were submitted to Pace on April 19, 2022. The following subsections summarize groundwater sample collection activities. Sampling locations are depicted on Figure 2 in Appendix A.

3.2.1 Groundwater Sampling

The Toeroek Team collected groundwater samples from each of the three permanently installed monitoring wells (Appendix A, Figure 2).

Samples were collected after at least three well volumes of water had been purged from each well by use of a bailer. The Toeroek Team measured temperature, pH, specific conductivity, and turbidity using a Horiba U-52 Series water meter. Parameters were monitored during purging until stabilization (no greater than 10 percent change over three consecutive readings). Samples were collected into three 40-milliliter (mL) volatile organic analysis (VOA) vials preserved with hydrochloric acid. Samples were analyzed for VOCs via EPA Method 8260. Table 1 below summarizes groundwater levels and samples collected during this Phase II ESA.

TABLE 1

GROUNDWATER LEVEL AND SAMPLE SUMMARY, QUARTER 2
31st & PROSPECT DEVELOPMENT SITE

Location ID(s)	Depth to Groundwater (ft btoc)	Static Water Level (ft amsl)	Analyses Performed
MW-1	12.90	971.94	Volatile organic compounds by EPA Method 8260
MW-2	13.10	970.95	
MW-3	12.71	970.18	
MW-3-FD			

Notes:

EPA U.S. Environmental Protection Agency
FD Field duplicate
ft amsl Feet above mean sea level
ft btoc Feet below top of casing
MW Monitoring well

3.2.2 Quality Control Sampling

Field quality control (QC) samples for this investigation included one laboratory-supplied aqueous trip blank, one field blank, one rinsate blank collected from the water level indicator, and one groundwater field duplicate collected at MW-3. Pace analyzed the QC samples for VOCs. Analytical data from the

field blanks were used to evaluate contamination of sampling containers or sample preservatives, and assess contamination potentially introduced during sampling and laboratory procedures. Results from the rinsate blank were used to evaluate cross contamination of groundwater between monitoring wells introduced by reusable equipment. One groundwater field duplicate was collected to determine total method precision. Analytical results from field duplicate samples were used to calculate the relative percent difference (RPD) between results for each reported analyte. The RPDs served informational purposes only; however, the higher concentration of each analyte in the duplicate sample pair was compared to the associated screening level. Analytical accuracy was determined via analysis of laboratory-prepared spikes and duplicates. Calculated RPDs are included with the applicable data validation reports in Appendix D.

4.0 EVALUATION AND PRESENTATION OF RESULTS

The following subsections present analytical data from groundwater samples collected during the Phase II ESA, Quarter 2 sampling event. Sample results from this ESA were compared to EPA MCLs (EPA 2022), MRBCA LDTLs, and MRBCA Tier 1 RBTLs for Type 3 (clayey) residential subsurface soils (MoDNR 2006). Copies of analytical data packages and data validation reports are in Appendix D.

4.1 GROUNDWATER SAMPLES

A total of three groundwater samples were collected, one from each of the three monitoring wells: MW-1, MW-2, and MW-3. The sample from MW-3 was duplicated.

In groundwater samples, the laboratory detected the following COCs: acetone; benzene; chloroform; *cis*-1,2-dichloroethene (DCE); *trans*-1,2-DCE; 1,2-dichloropropane; isopropylbenzene (cumene); methylene chloride; 4-methyl-2-pentanone (MIBK); PCE; 1,1,2-trichloroethane (TCA); TCE; and 1,3,5-trimethylbenzene (TMB).

Groundwater samples collected from MW-1, MW-2, and MW-3 contained concentrations of COCs identified above. COC exceedances included:

- At MW-1, PCE and TCE exceeded their respective EPA MCLs and MRBCA LDTLs.
- At MW-2, PCE exceeded its corresponding EPA MCL, MRBCA LDTL, and MRBCA RBTL. TCE exceeded its corresponding EPA MCL and MRBCA LDTL. 1,1,2-TCA exceeded its corresponding MRBCA LDTL.
- At MW-3, PCE and TCE exceeded their respective EPA MCLs and MRBCA LDTLs. 1,1,2-TCA exceeded its corresponding MRBCA LDTL.

The MRBCA RBTL assumed clayey soil and a primary risk from vapor inhalation. No other chemical of concern was detected at a concentration exceeding a MRBCA screening level or an EPA MCL. Table 2 below lists all VOC detections in groundwater. Figure 3 shows exceedances of VOC MRBCA screening levels or EPA MCLs in groundwater (Appendix A).

TABLE 2

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES, QUARTER 2
31st & PROSPECT DEVELOPMENT SITE

Sample Location	Acetone	Benzene	Chloroform	*cis*-1,2-DCE	*trans*-1,2-DCE	1,2-Dichloropropane	Isopropylbenzene (Cumene)
	EPA MCL						
	NE	5	NE	70	100	5	NE
	MRBCA LDTL (All Soil Types, All Pathways, DWG)						
	2,970	5	80	70	100	5	330
	MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey)						
	101,000,000	2,880	814	19,400	17,800	3,040	10,600
MW-1	<12.7	<0.68	<1.1	**2.4 J**	<5.1	<0.70	<0.48
MW-2	**148 J**	<6.8	<11.0	**34.0 J**	<5.1	<7.0	<4.8
MW-3	<12.7	**2.5 J**	<1.1	**63.8**	**0.69 J**	<0.70	<0.48
MW-3-FD	<2.5	**2.5**	**0.34 J**	**66.5**	**0.91 J**	**0.38 J**	**0.31 J**

Sample Location	Methylene Chloride	4-Methyl-2-Pentanone (MIBK)	PCE	1,1,2-TCA	TCE	1,3,5-TMB	
	EPA MCL						
	NE	NE	5	NE	5	NE	
	MRBCA LDTL (All Soil Types, All Pathways, DWG)						
	0.005	NE	5	5	5	7.05	
	MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey)						
	68.3	NE	928	19,400	928	19,400	
MW-1	**10**	**4.2 J+**	***83.5***	<0.71	***22***	<0.45	
MW-2	**96.7**	<36.8	***7,760***	***1,060***	***349***	<4.5	
MW-3	**10.3 J**	<3.7	***539***	***18.1 J***	***138***	<0.45	
MW-3-FD	>0.39 J	<0.74	***505***	**0.17 J**	***151***	**0.42 J**	

Notes:

All values are in micrograms per liter (µg/L).

Bold font indicates the concentration exceeds the reporting limit.
Italic font indicates the concentration exceeds the MCL and/or LDTL.
Red text indicates the concentration exceeds the RBTL.

EPA	U.S. Environmental Protection Agency
DCE	Dichloroethene
DWG	Protection for domestic groundwater use pathway
FD	Field duplicate
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
J+	Estimated, possibly biased high
LDTL	Lowest Default Target Level
MCL	Maximum Contaminant Level
MRBCA	Missouri Risk-based Corrective Action
MW	Monitoring well
NE	Not established
PCE	Tetrachloroethene
RBTL	Risk-based Target Level
TCE	Trichloroethene
TCA	Trichloroethane
TMB	Trimethylbenzene
VOC	Volatile organic compound

4.2 QUALITY CONTROL SAMPLES

Pace analyzed QC samples for VOCs. No VOCs were detected in the trip blank or the field blank. The rinsate sample contained MIBK and PCE at concentrations between the method detection limit and the reporting limit; therefore, the MIBK result for sample MW-1 would be qualified as estimated, possibly biased high (flagged J+).

Calculated RPDs between data from groundwater sample MW-1 and duplicate MW-1-FD indicated poor precision of methylene chloride and 1,1,2-TCA data, resulting in estimated values. Duplicate results for all other analytes were within acceptance limits, qualifying those data as reliable.

5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS

This section summarizes significant findings and offers conclusions regarding the Phase II ESA, Quarter 2 sampling event.

All groundwater samples collected at the Site contained low to moderate concentrations of COCs. The laboratory detected the following COCs: acetone; benzene; chloroform; *cis*-1,2-DCE; *trans*-1,2-DCE; 1,2-dichloropropane; isopropylbenzene; methylene chloride; MIBK; PCE; 1,1,2-TCA; TCE; and 1,3,5-TMB. COC exceedances included:

- At MW-1, PCE and TCE exceeded their respective EPA MCLs and MRBCA LDTLs.
- At MW-2, PCE exceeded its corresponding EPA MCL, MRBCA LDTL, and MRBCA RBTL. TCE exceeded its corresponding EPA MCL and MRBCA LDTL. 1,1,2-TCA exceeded its corresponding MRBCA LDTL.
- At MW-3, PCE and TCE exceeded their respective EPA MCLs and MRBCA LDTLs. . 1,1,2-TCA exceeded its corresponding MRBCA LDTL.

The MRBCA RBTL assumed clayey soil and a primary risk from vapor inhalation. No other concentrations of COCs exceeded MRBCA screening levels or EPA MCLs.

6.0 REFERENCES

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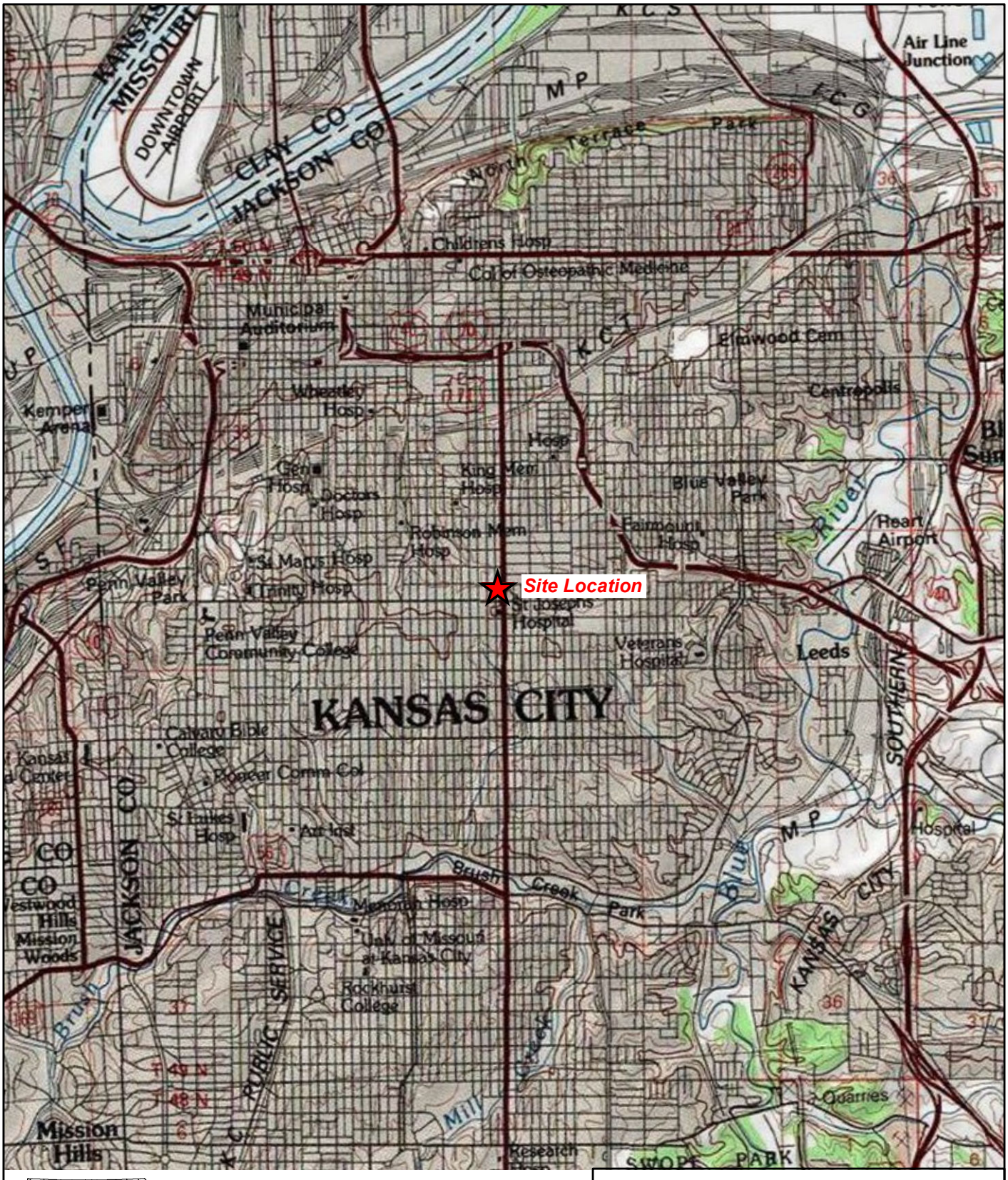
APPENDIX A

FIGURES

FIGURE 1
SITE LOCATION MAP



N

0 0.5 1

Miles

Source: Esri, ArcGIS Online, USA Topo Maps, 2013

31st & Prospect Development Site
Kansas City, Missouri

Figure 1

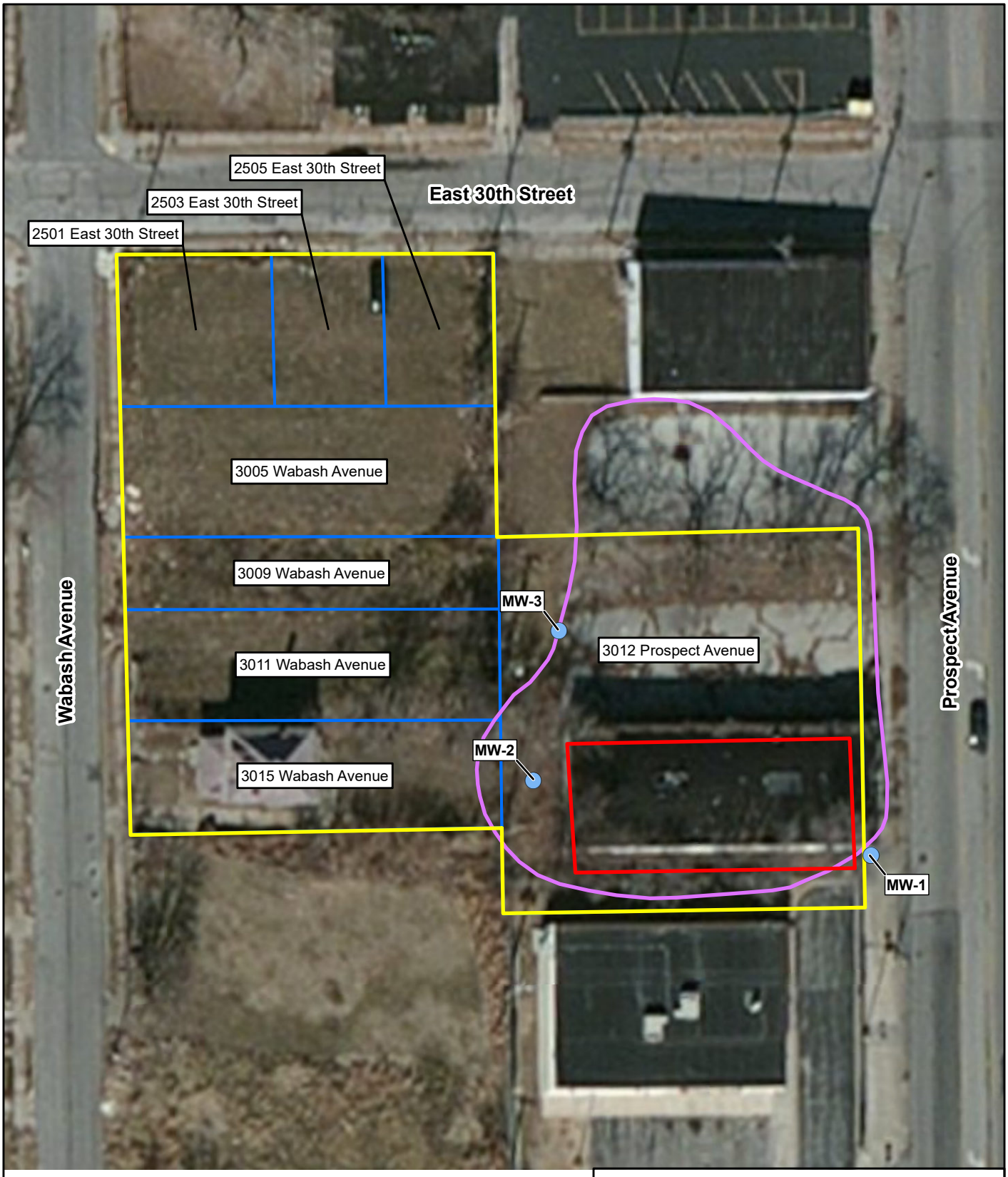
Site Location Map

TETRA TECH

Date: 2/23/2022 Drawn By: Rachel Page Project No: 103G65210190.08.03

X:\G65210190\08.03\Projects\mxd\Figure1.mxd

FIGURE 2
SAMPLE LOCATION MAP



Legend

- Monitoring well location
- Area of soil and groundwater contamination
- Former dry cleaning facility
- Site boundary
- Parcel

N

0 25 50

Feet

Source: Esri, ArcGIS Online, World Imagery (Clarity), 2015

31st & Prospect Development Site
Kansas City, Missouri

Figure 2

Sample Location Map

TETRA TECH

Date: 6/1/2022 Drawn By: Rachel Page Project No: 103G65210190.08.03

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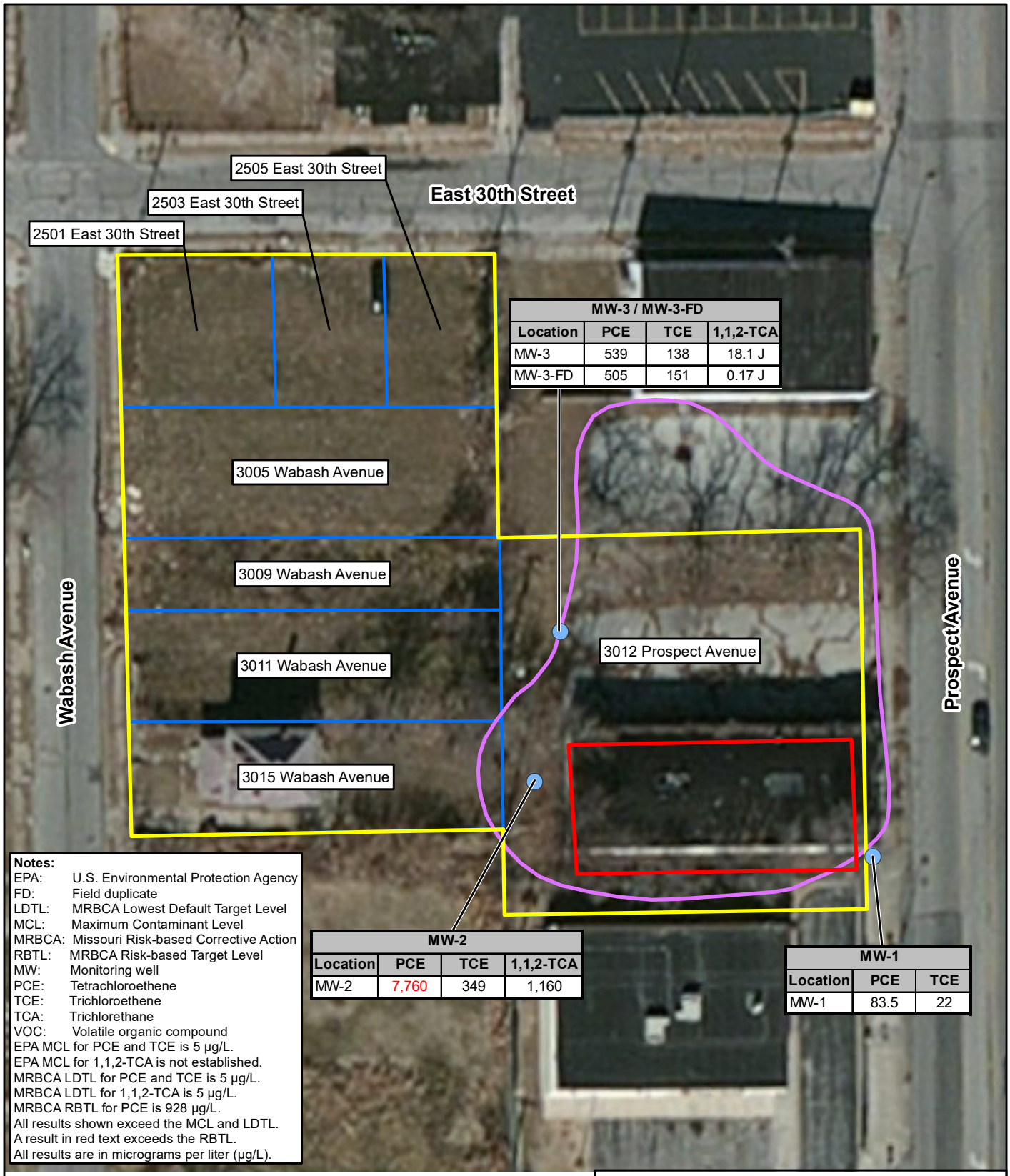
FIGURE 3
VOC EXCEEDANCES IN GROUNDWATER



MW-3 / MW-3-FD			
Location	PCE	TCE	1,1,2-TCA
MW-3	539	138	18.1 J
MW-3-FD	505	151	0.17 J

MW-2			
Location	PCE	TCE	1,1,2-TCA
MW-2	7,760	349	1,160

MW-1		
Location	PCE	TCE
MW-1	83.5	22

Notes:
EPA: U.S. Environmental Protection Agency
FD: Field duplicate
LDTL: MRBCA Lowest Default Target Level
MCL: Maximum Contaminant Level
MRBCA: Missouri Risk-based Corrective Action
RBTL: MRBCA Risk-based Target Level
MW: Monitoring well
PCE: Tetrachloroethene
TCE: Trichloroethene
TCA: Trichlorethane
VOC: Volatile organic compound
EPA MCL for PCE and TCE is 5 µg/L.
EPA MCL for 1,1,2-TCA is not established.
MRBCA LDTL for PCE and TCE is 5 µg/L.
MRBCA LDTL for 1,1,2-TCA is 5 µg/L.
MRBCA RBTL for PCE is 928 µg/L.
All results shown exceed the MCL and LDTL.
A result in red text exceeds the RBTL.
All results are in micrograms per liter (µg/L).

Legend
- Monitoring well location
- Area of soil and groundwater contamination
- Former dry cleaning facility
- Site boundary
- Parcel

N
0 25 50
Feet

Source: Esri, ArcGIS Online, World Imagery (Clarity), 2015

X:\G65210190\08.03\Projects\mxd\Figure3_Q2.mxd

31st & Prospect Development Site
Kansas City, Missouri

Figure 3
VOC Exceedances in Groundwater (Quarter 2 Sampling Event)

TETRA TECH

Date: 6/1/2022 Drawn By: Clayton Hayes Project No: 103G65210190.08.03

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

31st & Prospect Development Site
Phase II Environmental Site Assessment, Quarter 2
Kansas City, Jackson County, Missouri

U.S. Environmental Protection Agency (EPA) Task Order No. 68HE0719F0190	DESCRIPTION	This photograph shows monitoring well (MW) MW-1.	1 Date
Direction: North	PHOTOGRAPHER	Stephanie Caples	4/19/2022

EPA Task Order No. 68HE0719F0190	DESCRIPTION	This photograph shows MW-2.	2 Date
Direction: East	PHOTOGRAPHER	Stephanie Caples	4/19/2022

31st & Prospect Development Site
Phase II Environmental Site Assessment, Quarter 2
Kansas City, Jackson County, Missouri

EPA Task Order No. 68HE0719F0190	DESCRIPTION	This photograph shows MW-3	3
			Date
Direction: Northeast	PHOTOGRAPHER	Stephanie Caples	4/19/2022

EPA Task Order No. 68HE0719F0190	DESCRIPTION	This photograph shows investigative-derived waste (IDW) containers from the January 2022 sampling and MW installation event. The contents were considered nonhazardous and removed for disposal on May 10, 2022.	4
			Date
Direction: South	PHOTOGRAPHER	Stephanie Caples	4/19/2022

APPENDIX C

LOGBOOK

22 4/19/22

0930 Stephanie Caples & Zach Usher on-site at 31st & Prospect Side to perform 2nd Quarter GW Sampling.

1000 On-site. Opening MW-3.

MW-3:

TD: 21.14' bgs DTW: 12.71' bgs

1 well volume: 1.37 gal.

1st V: Temp: 14.88°C ORP: 80 mV
pH: 8.40 DO: 36.2 mg/L
SpCon: 2.33 mS/cm Turb: 910 NTU

2nd V: Tem: 14.18 ORP: 92
pH: 8.00 DO: 1.28
SC: 2.75 TUR: 900

3rd V: Tem: 13.90 ORP: 92
pH: 7.65 DO: 0.56
SC: 2.76 TUR: 1000

4th V: Tem: 14.15 ORP: 91
pH: 7.45 ~~DO~~ SC 0.0
SC: 2.83 TUR 1000

1020 Collected sample MW-3 & a field duplicate MW3-FD.

1030 Moved to MW-2.

1036 Collected Rinsate blank off of water level meter. ——— SC.

4/19/22 23

1040 MW-2:

TD: 24.63' bgs DTW: 13.1' bgs

1 well Volume: 1.88 gal

1st V: Tem: 14.31 ORP: 104
pH: 7.71 DO: 1.85
SC: 1.74 Tur: 880

2nd V: Tem: 14.26 ORP: 102
pH: 7.66 DO: 1.88
SC: 1.75 Tur: 880

3rd V: Tem: 14.41 ORP: 93
pH: 7.61 DO: 2.63
SC: 1.79 Tur: 700

1056 Collected MW-2. —SC

1105 Moved to MW-1. —SC

MW-1:

TD: 21.76' bgs DTW: 12.9' bgs

1 well Volume: 1.44 gal

1st V: Tem: 15.29 ORP: 114
pH: 7.46 DO: 4.05
SC: 3.28 Tur: 200

2nd V: Tem: 15.42 ORP: 112
pH: 7.31 DO: 1.44
SC: 3.28 Tur: 192

3rd V: Tem: 15.50 ORP: 109
pH: 7.22 DO: 3.80
SC: 3.26 Tur: 1.85

4/19/22

4pm V: Temp 15.45 ORP: 104
pH: 7.10 DO: 1.41
SC 3.20 TDS: 143

1125 collected MW-1 — SC
1134 Collected Field Blank — SC
1138 Added Trip Blank to cooler
All samples on ice
1140 Returning to the office
End of day. — SC

4/19/22

Rite in the Rain

APPENDIX D

ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

May 02, 2022

Emily Fisher
TETRA TECH EMI
415 Oak
Kansas City, MO 64106

RE: Project: 31ST & PROSPECT
Pace Project No.: 60398464

Dear Emily Fisher:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

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

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Stephanie Caples, Tetra Tech EMI
Ryan Slanczka, Tetra Tech

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CERTIFICATIONS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 20-020-0
Arkansas Drinking Water
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212020-2
Oklahoma Certification #: 9205/9935
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-21-15
Utah Certification #: KS000212019-9
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60398464001	**MW-3**	Water	04/19/22 10:20	04/20/22 05:30
60398464002	**MW-3-FD**	Water	04/19/22 10:20	04/20/22 05:30
60398464003	**RINSATE**	Water	04/19/22 10:38	04/20/22 05:30
60398464004	**MW-2**	Water	04/19/22 10:58	04/20/22 05:30
60398464005	**MW-1**	Water	04/19/22 11:25	04/20/22 05:30
60398464006	**FIELD BLANK**	Water	04/19/22 11:34	04/20/22 05:30
60398464007	**TRIP BLANK**	Water	04/19/22 11:38	04/20/22 05:30

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SAMPLE ANALYTE COUNT

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60398464001	**MW-3**	EPA 5030B/8260	JLO	69	PASI-K
60398464002	**MW-3-FD**	EPA 5030B/8260	CSC, JLO	69	PASI-K
60398464003	**RINSATE**	EPA 5030B/8260	JLO	69	PASI-K
60398464004	**MW-2**	EPA 5030B/8260	CSC, JLO	69	PASI-K
60398464005	**MW-1**	EPA 5030B/8260	JLO	69	PASI-K
60398464006	**FIELD BLANK**	EPA 5030B/8260	JLO	69	PASI-K
60398464007	**TRIP BLANK**	EPA 5030B/8260	JLO	69	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-3 **Lab ID: 60398464001** Collected: 04/19/22 10:20 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**<12.7**	ug/L	50.0	5		04/26/22 19:11	67-64-1	
Benzene	**2.5J**	ug/L	5.0	5		04/26/22 19:11	71-43-2	
Bromobenzene	**<0.44**	ug/L	5.0	5		04/26/22 19:11	108-86-1	
Bromochloromethane	**<1.0**	ug/L	5.0	5		04/26/22 19:11	74-97-5	
Bromodichloromethane	**<0.78**	ug/L	5.0	5		04/26/22 19:11	75-27-4	
Bromoform	**<3.4**	ug/L	5.0	5		04/26/22 19:11	75-25-2	
Bromomethane	**<2.3**	ug/L	25.0	5		04/26/22 19:11	74-83-9	
2-Butanone (MEK)	**<4.9**	ug/L	50.0	5		04/26/22 19:11	78-93-3	
n-Butylbenzene	**<0.76**	ug/L	5.0	5		04/26/22 19:11	104-51-8	
sec-Butylbenzene	**<0.55**	ug/L	5.0	5		04/26/22 19:11	135-98-8	
tert-Butylbenzene	**<0.60**	ug/L	5.0	5		04/26/22 19:11	98-06-6	
Carbon disulfide	**<4.9**	ug/L	25.0	5		04/26/22 19:11	75-15-0	
Carbon tetrachloride	**<0.86**	ug/L	5.0	5		04/26/22 19:11	56-23-5	
Chlorobenzene	**<0.44**	ug/L	5.0	5		04/26/22 19:11	108-90-7	
Chloroethane	**<1.9**	ug/L	5.0	5		04/26/22 19:11	75-00-3	
Chloroform	**<1.1**	ug/L	5.0	5		04/26/22 19:11	67-66-3	
Chloromethane	**<1.4**	ug/L	5.0	5		04/26/22 19:11	74-87-3	
2-Chlorotoluene	**<0.54**	ug/L	5.0	5		04/26/22 19:11	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	5.0	5		04/26/22 19:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<3.9**	ug/L	12.5	5		04/26/22 19:11	96-12-8	
Dibromochloromethane	**<1.5**	ug/L	5.0	5		04/26/22 19:11	124-48-1	
1,2-Dibromoethane (EDB)	**<0.98**	ug/L	5.0	5		04/26/22 19:11	106-93-4	
Dibromomethane	**<0.54**	ug/L	5.0	5		04/26/22 19:11	74-95-3	
1,2-Dichlorobenzene	**<0.62**	ug/L	5.0	5		04/26/22 19:11	95-50-1	
1,3-Dichlorobenzene	**<0.66**	ug/L	5.0	5		04/26/22 19:11	541-73-1	
1,4-Dichlorobenzene	**<0.66**	ug/L	5.0	5		04/26/22 19:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	5.0	5		04/26/22 19:11	75-71-8	L2
1,1-Dichloroethane	**<0.61**	ug/L	5.0	5		04/26/22 19:11	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/L	5.0	5		04/26/22 19:11	107-06-2	
1,2-Dichloroethene (Total)	**64.5**	ug/L	5.0	5		04/26/22 19:11	540-59-0	
1,1-Dichloroethene	**<1.1**	ug/L	5.0	5		04/26/22 19:11	75-35-4	
cis-1,2-Dichloroethene	**63.8**	ug/L	5.0	5		04/26/22 19:11	156-59-2	
trans-1,2-Dichloroethene	**0.69J**	ug/L	5.0	5		04/26/22 19:11	156-60-5	
1,2-Dichloropropane	**<0.70**	ug/L	5.0	5		04/26/22 19:11	78-87-5	
1,3-Dichloropropane	**<0.52**	ug/L	5.0	5		04/26/22 19:11	142-28-9	
2,2-Dichloropropane	**<0.81**	ug/L	5.0	5		04/26/22 19:11	594-20-7	
1,1-Dichloropropene	**<0.68**	ug/L	5.0	5		04/26/22 19:11	563-58-6	
cis-1,3-Dichloropropene	**<0.39**	ug/L	5.0	5		04/26/22 19:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.91**	ug/L	5.0	5		04/26/22 19:11	10061-02-6	
Ethylbenzene	**<0.60**	ug/L	5.0	5		04/26/22 19:11	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	5		04/26/22 19:11	87-68-3	
2-Hexanone	**<5.5**	ug/L	50.0	5		04/26/22 19:11	591-78-6	
Isopropylbenzene (Cumene)	**<0.48**	ug/L	5.0	5		04/26/22 19:11	98-82-8	
p-Isopropyltoluene	**<0.64**	ug/L	5.0	5		04/26/22 19:11	99-87-6	
Methylene Chloride	**10.3**	ug/L	5.0	5		04/26/22 19:11	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	**<3.7**	ug/L	50.0	5		04/26/22 19:11	108-10-1	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-3 **Lab ID: 60398464001** Collected: 04/19/22 10:20 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.64**	ug/L	5.0	5		04/26/22 19:11	1634-04-4	
Naphthalene	**<4.1**	ug/L	50.0	5		04/26/22 19:11	91-20-3	
n-Propylbenzene	**<0.60**	ug/L	5.0	5		04/26/22 19:11	103-65-1	
Styrene	**<0.62**	ug/L	5.0	5		04/26/22 19:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.42**	ug/L	5.0	5		04/26/22 19:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.77**	ug/L	5.0	5		04/26/22 19:11	79-34-5	
Tetrachloroethene	**539**	ug/L	5.0	5		04/26/22 19:11	127-18-4	
Toluene	**<1.3**	ug/L	5.0	5		04/26/22 19:11	108-88-3	
1,2,3-Trichlorobenzene	**<4.6**	ug/L	5.0	5		04/26/22 19:11	87-61-6	
1,2,4-Trichlorobenzene	**<3.7**	ug/L	5.0	5		04/26/22 19:11	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/L	5.0	5		04/26/22 19:11	71-55-6	
1,1,2-Trichloroethane	**18.1**	ug/L	5.0	5		04/26/22 19:11	79-00-5	
Trichloroethene	**138**	ug/L	5.0	5		04/26/22 19:11	79-01-6	
Trichlorofluoromethane	**<0.82**	ug/L	5.0	5		04/26/22 19:11	75-69-4	
1,2,3-Trichloropropane	**<2.0**	ug/L	12.5	5		04/26/22 19:11	96-18-4	
1,2,4-Trimethylbenzene	**<1.6**	ug/L	5.0	5		04/26/22 19:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.45**	ug/L	5.0	5		04/26/22 19:11	108-67-8	
Vinyl chloride	**<0.84**	ug/L	5.0	5		04/26/22 19:11	75-01-4	L2
Xylene (Total)	**<1.4**	ug/L	15.0	5		04/26/22 19:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	5		04/26/22 19:11	460-00-4	
Toluene-d8 (S)	98	%	80-120	5		04/26/22 19:11	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	5		04/26/22 19:11	2199-69-1	
Preservation pH	**1.0**		0.10	5		04/26/22 19:11		

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-3-FD **Lab ID: 60398464002** Collected: 04/19/22 10:20 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		04/26/22 19:26	67-64-1	
Benzene	**2.5**	ug/L	1.0	1		04/26/22 19:26	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		04/26/22 19:26	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		04/26/22 19:26	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		04/26/22 19:26	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		04/26/22 19:26	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		04/26/22 19:26	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		04/26/22 19:26	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		04/26/22 19:26	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		04/26/22 19:26	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:26	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		04/26/22 19:26	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		04/26/22 19:26	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		04/26/22 19:26	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		04/26/22 19:26	75-00-3	
Chloroform	**0.34J**	ug/L	1.0	1		04/26/22 19:26	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		04/26/22 19:26	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		04/26/22 19:26	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		04/26/22 19:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		04/26/22 19:26	96-12-8	
Dibromochloromethane	**0.58J**	ug/L	1.0	1		04/26/22 19:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		04/26/22 19:26	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		04/26/22 19:26	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:26	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 19:26	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 19:26	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		04/26/22 19:26	75-71-8	L2
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		04/26/22 19:26	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		04/26/22 19:26	107-06-2	
1,2-Dichloroethene (Total)	**67.4**	ug/L	1.0	1		04/26/22 19:26	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		04/26/22 19:26	75-35-4	
cis-1,2-Dichloroethene	**66.5**	ug/L	1.0	1		04/26/22 19:26	156-59-2	
trans-1,2-Dichloroethene	**0.91J**	ug/L	1.0	1		04/26/22 19:26	156-60-5	
1,2-Dichloropropane	**0.38J**	ug/L	1.0	1		04/26/22 19:26	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		04/26/22 19:26	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		04/26/22 19:26	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		04/26/22 19:26	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		04/26/22 19:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		04/26/22 19:26	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:26	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		04/26/22 19:26	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		04/26/22 19:26	591-78-6	
Isopropylbenzene (Cumene)	**0.31J**	ug/L	1.0	1		04/26/22 19:26	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		04/26/22 19:26	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		04/26/22 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		04/26/22 19:26	108-10-1	

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-3-FD **Lab ID: 60398464002** Collected: 04/19/22 10:20 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		04/26/22 19:26	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		04/26/22 19:26	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:26	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		04/26/22 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		04/26/22 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		04/26/22 19:26	79-34-5	
Tetrachloroethene	**505**	ug/L	5.0	5		04/29/22 06:43	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		04/26/22 19:26	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		04/26/22 19:26	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		04/26/22 19:26	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		04/26/22 19:26	71-55-6	
1,1,2-Trichloroethane	**0.17J**	ug/L	1.0	1		04/26/22 19:26	79-00-5	
Trichloroethene	**151**	ug/L	1.0	1		04/26/22 19:26	79-01-6	
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		04/26/22 19:26	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		04/26/22 19:26	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		04/26/22 19:26	95-63-6	
1,3,5-Trimethylbenzene	**0.42J**	ug/L	1.0	1		04/26/22 19:26	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		04/26/22 19:26	75-01-4	L2
Xylene (Total)	**<0.28**	ug/L	3.0	1		04/26/22 19:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		04/26/22 19:26	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		04/26/22 19:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		04/26/22 19:26	2199-69-1	
Preservation pH	**1.0**		0.10	1		04/26/22 19:26		

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: RINSATE **Lab ID: 60398464003** Collected: 04/19/22 10:38 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		04/26/22 19:42	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		04/26/22 19:42	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		04/26/22 19:42	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		04/26/22 19:42	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		04/26/22 19:42	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		04/26/22 19:42	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		04/26/22 19:42	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		04/26/22 19:42	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		04/26/22 19:42	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		04/26/22 19:42	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:42	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		04/26/22 19:42	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		04/26/22 19:42	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		04/26/22 19:42	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		04/26/22 19:42	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		04/26/22 19:42	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		04/26/22 19:42	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		04/26/22 19:42	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		04/26/22 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		04/26/22 19:42	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		04/26/22 19:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		04/26/22 19:42	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		04/26/22 19:42	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:42	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 19:42	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 19:42	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		04/26/22 19:42	75-71-8	L2
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		04/26/22 19:42	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		04/26/22 19:42	107-06-2	
1,2-Dichloroethene (Total)	**<0.22**	ug/L	1.0	1		04/26/22 19:42	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		04/26/22 19:42	75-35-4	
cis-1,2-Dichloroethene	**<0.13**	ug/L	1.0	1		04/26/22 19:42	156-59-2	
trans-1,2-Dichloroethene	**<0.10**	ug/L	1.0	1		04/26/22 19:42	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		04/26/22 19:42	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		04/26/22 19:42	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		04/26/22 19:42	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		04/26/22 19:42	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		04/26/22 19:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		04/26/22 19:42	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:42	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		04/26/22 19:42	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		04/26/22 19:42	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		04/26/22 19:42	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		04/26/22 19:42	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		04/26/22 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.75J**	ug/L	10.0	1		04/26/22 19:42	108-10-1	

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: RINSATE **Lab ID: 60398464003** Collected: 04/19/22 10:38 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		04/26/22 19:42	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		04/26/22 19:42	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 19:42	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		04/26/22 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		04/26/22 19:42	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		04/26/22 19:42	79-34-5	
Tetrachloroethene	**0.66J**	ug/L	1.0	1		04/26/22 19:42	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		04/26/22 19:42	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		04/26/22 19:42	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		04/26/22 19:42	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		04/26/22 19:42	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		04/26/22 19:42	79-00-5	
Trichloroethene	**<0.21**	ug/L	1.0	1		04/26/22 19:42	79-01-6	
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		04/26/22 19:42	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		04/26/22 19:42	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		04/26/22 19:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		04/26/22 19:42	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		04/26/22 19:42	75-01-4	L2
Xylene (Total)	**<0.28**	ug/L	3.0	1		04/26/22 19:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		04/26/22 19:42	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		04/26/22 19:42	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		04/26/22 19:42	2199-69-1	
Preservation pH	**1.0**		0.10	1		04/26/22 19:42		

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-2 **Lab ID: 60398464004** Collected: 04/19/22 10:58 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**148J**	ug/L	500	50		04/26/22 19:58	67-64-1	B
Benzene	**<6.8**	ug/L	50.0	50		04/26/22 19:58	71-43-2	
Bromobenzene	**<4.4**	ug/L	50.0	50		04/26/22 19:58	108-86-1	
Bromochloromethane	**<10.1**	ug/L	50.0	50		04/26/22 19:58	74-97-5	
Bromodichloromethane	**<7.8**	ug/L	50.0	50		04/26/22 19:58	75-27-4	
Bromoform	**<33.8**	ug/L	50.0	50		04/26/22 19:58	75-25-2	
Bromomethane	**<23.0**	ug/L	250	50		04/26/22 19:58	74-83-9	
2-Butanone (MEK)	**<48.8**	ug/L	500	50		04/26/22 19:58	78-93-3	
n-Butylbenzene	**<7.6**	ug/L	50.0	50		04/26/22 19:58	104-51-8	
sec-Butylbenzene	**<5.5**	ug/L	50.0	50		04/26/22 19:58	135-98-8	
tert-Butylbenzene	**<6.0**	ug/L	50.0	50		04/26/22 19:58	98-06-6	
Carbon disulfide	**<48.9**	ug/L	250	50		04/26/22 19:58	75-15-0	
Carbon tetrachloride	**<8.6**	ug/L	50.0	50		04/26/22 19:58	56-23-5	
Chlorobenzene	**<4.4**	ug/L	50.0	50		04/26/22 19:58	108-90-7	
Chloroethane	**<18.7**	ug/L	50.0	50		04/26/22 19:58	75-00-3	
Chloroform	**<11.0**	ug/L	50.0	50		04/26/22 19:58	67-66-3	
Chloromethane	**<14.2**	ug/L	50.0	50		04/26/22 19:58	74-87-3	
2-Chlorotoluene	**<5.4**	ug/L	50.0	50		04/26/22 19:58	95-49-8	
4-Chlorotoluene	**<7.4**	ug/L	50.0	50		04/26/22 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	**<39.0**	ug/L	125	50		04/26/22 19:58	96-12-8	
Dibromochloromethane	**<15.2**	ug/L	50.0	50		04/26/22 19:58	124-48-1	
1,2-Dibromoethane (EDB)	**<9.8**	ug/L	50.0	50		04/26/22 19:58	106-93-4	
Dibromomethane	**<5.4**	ug/L	50.0	50		04/26/22 19:58	74-95-3	
1,2-Dichlorobenzene	**<6.2**	ug/L	50.0	50		04/26/22 19:58	95-50-1	
1,3-Dichlorobenzene	**<6.6**	ug/L	50.0	50		04/26/22 19:58	541-73-1	
1,4-Dichlorobenzene	**<6.6**	ug/L	50.0	50		04/26/22 19:58	106-46-7	
Dichlorodifluoromethane	**<10**	ug/L	50.0	50		04/26/22 19:58	75-71-8	L2
1,1-Dichloroethane	**<6.1**	ug/L	50.0	50		04/26/22 19:58	75-34-3	
1,2-Dichloroethane	**<10.6**	ug/L	50.0	50		04/26/22 19:58	107-06-2	
1,2-Dichloroethene (Total)	**34.0J**	ug/L	50.0	50		04/26/22 19:58	540-59-0	
1,1-Dichloroethene	**<11.0**	ug/L	50.0	50		04/26/22 19:58	75-35-4	
cis-1,2-Dichloroethene	**34.0J**	ug/L	50.0	50		04/26/22 19:58	156-59-2	
trans-1,2-Dichloroethene	**<5.1**	ug/L	50.0	50		04/26/22 19:58	156-60-5	
1,2-Dichloropropane	**<7.0**	ug/L	50.0	50		04/26/22 19:58	78-87-5	
1,3-Dichloropropane	**<5.2**	ug/L	50.0	50		04/26/22 19:58	142-28-9	
2,2-Dichloropropane	**<8.1**	ug/L	50.0	50		04/26/22 19:58	594-20-7	
1,1-Dichloropropene	**<6.8**	ug/L	50.0	50		04/26/22 19:58	563-58-6	
cis-1,3-Dichloropropene	**<3.9**	ug/L	50.0	50		04/26/22 19:58	10061-01-5	
trans-1,3-Dichloropropene	**<9.1**	ug/L	50.0	50		04/26/22 19:58	10061-02-6	
Ethylbenzene	**<6.0**	ug/L	50.0	50		04/26/22 19:58	100-41-4	
Hexachloro-1,3-butadiene	**<20.8**	ug/L	50.0	50		04/26/22 19:58	87-68-3	
2-Hexanone	**<55.0**	ug/L	500	50		04/26/22 19:58	591-78-6	
Isopropylbenzene (Cumene)	**<4.8**	ug/L	50.0	50		04/26/22 19:58	98-82-8	
p-Isopropyltoluene	**<6.4**	ug/L	50.0	50		04/26/22 19:58	99-87-6	
Methylene Chloride	**96.7**	ug/L	50.0	50		04/26/22 19:58	75-09-2	B
4-Methyl-2-pentanone (MIBK)	**<36.8**	ug/L	500	50		04/26/22 19:58	108-10-1	

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-2 **Lab ID: 60398464004** Collected: 04/19/22 10:58 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<6.4**	ug/L	50.0	50		04/26/22 19:58	1634-04-4	
Naphthalene	**<41.1**	ug/L	500	50		04/26/22 19:58	91-20-3	
n-Propylbenzene	**<6.0**	ug/L	50.0	50		04/26/22 19:58	103-65-1	
Styrene	**<6.2**	ug/L	50.0	50		04/26/22 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	**<4.2**	ug/L	50.0	50		04/26/22 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	**<7.7**	ug/L	50.0	50		04/26/22 19:58	79-34-5	
Tetrachloroethene	**7760**	ug/L	250	250		04/29/22 06:57	127-18-4	
Toluene	**<12.6**	ug/L	50.0	50		04/26/22 19:58	108-88-3	
1,2,3-Trichlorobenzene	**<46.4**	ug/L	50.0	50		04/26/22 19:58	87-61-6	
1,2,4-Trichlorobenzene	**<36.6**	ug/L	50.0	50		04/26/22 19:58	120-82-1	
1,1,1-Trichloroethane	**<5.4**	ug/L	50.0	50		04/26/22 19:58	71-55-6	
1,1,2-Trichloroethane	**1060**	ug/L	50.0	50		04/26/22 19:58	79-00-5	
Trichloroethene	**349**	ug/L	50.0	50		04/26/22 19:58	79-01-6	
Trichlorofluoromethane	**<8.2**	ug/L	50.0	50		04/26/22 19:58	75-69-4	
1,2,3-Trichloropropane	**<20.4**	ug/L	125	50		04/26/22 19:58	96-18-4	
1,2,4-Trimethylbenzene	**<16.2**	ug/L	50.0	50		04/26/22 19:58	95-63-6	
1,3,5-Trimethylbenzene	**<4.5**	ug/L	50.0	50		04/26/22 19:58	108-67-8	
Vinyl chloride	**<8.4**	ug/L	50.0	50		04/26/22 19:58	75-01-4	L2
Xylene (Total)	**<14.1**	ug/L	150	50		04/26/22 19:58	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	50		04/26/22 19:58	460-00-4	
Toluene-d8 (S)	96	%	80-120	50		04/26/22 19:58	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	50		04/26/22 19:58	2199-69-1	
Preservation pH	**1.0**		0.10	50		04/26/22 19:58		

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Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-1 **Lab ID: 60398464005** Collected: 04/19/22 11:25 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	**<12.7**	ug/L	50.0	5		04/26/22 20:14	67-64-1	
Benzene	**<0.68**	ug/L	5.0	5		04/26/22 20:14	71-43-2	
Bromobenzene	**<0.44**	ug/L	5.0	5		04/26/22 20:14	108-86-1	
Bromochloromethane	**<1.0**	ug/L	5.0	5		04/26/22 20:14	74-97-5	
Bromodichloromethane	**<0.78**	ug/L	5.0	5		04/26/22 20:14	75-27-4	
Bromoform	**<3.4**	ug/L	5.0	5		04/26/22 20:14	75-25-2	
Bromomethane	**<2.3**	ug/L	25.0	5		04/26/22 20:14	74-83-9	
2-Butanone (MEK)	**<4.9**	ug/L	50.0	5		04/26/22 20:14	78-93-3	
n-Butylbenzene	**<0.76**	ug/L	5.0	5		04/26/22 20:14	104-51-8	
sec-Butylbenzene	**<0.55**	ug/L	5.0	5		04/26/22 20:14	135-98-8	
tert-Butylbenzene	**<0.60**	ug/L	5.0	5		04/26/22 20:14	98-06-6	
Carbon disulfide	**<4.9**	ug/L	25.0	5		04/26/22 20:14	75-15-0	
Carbon tetrachloride	**<0.86**	ug/L	5.0	5		04/26/22 20:14	56-23-5	
Chlorobenzene	**<0.44**	ug/L	5.0	5		04/26/22 20:14	108-90-7	
Chloroethane	**<1.9**	ug/L	5.0	5		04/26/22 20:14	75-00-3	
Chloroform	**<1.1**	ug/L	5.0	5		04/26/22 20:14	67-66-3	
Chloromethane	**<1.4**	ug/L	5.0	5		04/26/22 20:14	74-87-3	
2-Chlorotoluene	**<0.54**	ug/L	5.0	5		04/26/22 20:14	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	5.0	5		04/26/22 20:14	106-43-4	
1,2-Dibromo-3-chloropropane	**<3.9**	ug/L	12.5	5		04/26/22 20:14	96-12-8	
Dibromochloromethane	**<1.5**	ug/L	5.0	5		04/26/22 20:14	124-48-1	
1,2-Dibromoethane (EDB)	**<0.98**	ug/L	5.0	5		04/26/22 20:14	106-93-4	
Dibromomethane	**<0.54**	ug/L	5.0	5		04/26/22 20:14	74-95-3	
1,2-Dichlorobenzene	**<0.62**	ug/L	5.0	5		04/26/22 20:14	95-50-1	
1,3-Dichlorobenzene	**<0.66**	ug/L	5.0	5		04/26/22 20:14	541-73-1	
1,4-Dichlorobenzene	**<0.66**	ug/L	5.0	5		04/26/22 20:14	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	5.0	5		04/26/22 20:14	75-71-8	L2
1,1-Dichloroethane	**<0.61**	ug/L	5.0	5		04/26/22 20:14	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/L	5.0	5		04/26/22 20:14	107-06-2	
1,2-Dichloroethene (Total)	**2.4J**	ug/L	5.0	5		04/26/22 20:14	540-59-0	
1,1-Dichloroethene	**<1.1**	ug/L	5.0	5		04/26/22 20:14	75-35-4	
cis-1,2-Dichloroethene	**2.4J**	ug/L	5.0	5		04/26/22 20:14	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/L	5.0	5		04/26/22 20:14	156-60-5	
1,2-Dichloropropane	**<0.70**	ug/L	5.0	5		04/26/22 20:14	78-87-5	
1,3-Dichloropropane	**<0.52**	ug/L	5.0	5		04/26/22 20:14	142-28-9	
2,2-Dichloropropane	**<0.81**	ug/L	5.0	5		04/26/22 20:14	594-20-7	
1,1-Dichloropropene	**<0.68**	ug/L	5.0	5		04/26/22 20:14	563-58-6	
cis-1,3-Dichloropropene	**<0.39**	ug/L	5.0	5		04/26/22 20:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.91**	ug/L	5.0	5		04/26/22 20:14	10061-02-6	
Ethylbenzene	**<0.60**	ug/L	5.0	5		04/26/22 20:14	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	5		04/26/22 20:14	87-68-3	
2-Hexanone	**<5.5**	ug/L	50.0	5		04/26/22 20:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.48**	ug/L	5.0	5		04/26/22 20:14	98-82-8	
p-Isopropyltoluene	**<0.64**	ug/L	5.0	5		04/26/22 20:14	99-87-6	
Methylene Chloride	**10**	ug/L	5.0	5		04/26/22 20:14	75-09-2	B
4-Methyl-2-pentanone (MIBK)	**4.2J**	ug/L	50.0	5		04/26/22 20:14	108-10-1	

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: MW-1 **Lab ID: 60398464005** Collected: 04/19/22 11:25 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.64**	ug/L	5.0	5		04/26/22 20:14	1634-04-4	
Naphthalene	**<4.1**	ug/L	50.0	5		04/26/22 20:14	91-20-3	
n-Propylbenzene	**<0.60**	ug/L	5.0	5		04/26/22 20:14	103-65-1	
Styrene	**<0.62**	ug/L	5.0	5		04/26/22 20:14	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.42**	ug/L	5.0	5		04/26/22 20:14	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.77**	ug/L	5.0	5		04/26/22 20:14	79-34-5	
Tetrachloroethene	**83.5**	ug/L	5.0	5		04/26/22 20:14	127-18-4	
Toluene	**<1.3**	ug/L	5.0	5		04/26/22 20:14	108-88-3	
1,2,3-Trichlorobenzene	**<4.6**	ug/L	5.0	5		04/26/22 20:14	87-61-6	
1,2,4-Trichlorobenzene	**<3.7**	ug/L	5.0	5		04/26/22 20:14	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/L	5.0	5		04/26/22 20:14	71-55-6	
1,1,2-Trichloroethane	**<0.71**	ug/L	5.0	5		04/26/22 20:14	79-00-5	
Trichloroethene	**22.0**	ug/L	5.0	5		04/26/22 20:14	79-01-6	
Trichlorofluoromethane	**<0.82**	ug/L	5.0	5		04/26/22 20:14	75-69-4	
1,2,3-Trichloropropane	**<2.0**	ug/L	12.5	5		04/26/22 20:14	96-18-4	
1,2,4-Trimethylbenzene	**<1.6**	ug/L	5.0	5		04/26/22 20:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.45**	ug/L	5.0	5		04/26/22 20:14	108-67-8	
Vinyl chloride	**<0.84**	ug/L	5.0	5		04/26/22 20:14	75-01-4	L2
Xylene (Total)	**<1.4**	ug/L	15.0	5		04/26/22 20:14	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	5		04/26/22 20:14	460-00-4	
Toluene-d8 (S)	96	%	80-120	5		04/26/22 20:14	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	5		04/26/22 20:14	2199-69-1	
Preservation pH	**1.0**		0.10	5		04/26/22 20:14		

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: FIELD BLANK **Lab ID: 60398464006** Collected: 04/19/22 11:34 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		04/26/22 20:30	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		04/26/22 20:30	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		04/26/22 20:30	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		04/26/22 20:30	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		04/26/22 20:30	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		04/26/22 20:30	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		04/26/22 20:30	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		04/26/22 20:30	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		04/26/22 20:30	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		04/26/22 20:30	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:30	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		04/26/22 20:30	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		04/26/22 20:30	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		04/26/22 20:30	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		04/26/22 20:30	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		04/26/22 20:30	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		04/26/22 20:30	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		04/26/22 20:30	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		04/26/22 20:30	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		04/26/22 20:30	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		04/26/22 20:30	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		04/26/22 20:30	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		04/26/22 20:30	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:30	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 20:30	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 20:30	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		04/26/22 20:30	75-71-8	L2
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		04/26/22 20:30	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		04/26/22 20:30	107-06-2	
1,2-Dichloroethene (Total)	**<0.22**	ug/L	1.0	1		04/26/22 20:30	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		04/26/22 20:30	75-35-4	
cis-1,2-Dichloroethene	**<0.13**	ug/L	1.0	1		04/26/22 20:30	156-59-2	
trans-1,2-Dichloroethene	**<0.10**	ug/L	1.0	1		04/26/22 20:30	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		04/26/22 20:30	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		04/26/22 20:30	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		04/26/22 20:30	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		04/26/22 20:30	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		04/26/22 20:30	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		04/26/22 20:30	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:30	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		04/26/22 20:30	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		04/26/22 20:30	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		04/26/22 20:30	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		04/26/22 20:30	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		04/26/22 20:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		04/26/22 20:30	108-10-1	

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: FIELD BLANK **Lab ID: 60398464006** Collected: 04/19/22 11:34 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		04/26/22 20:30	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		04/26/22 20:30	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:30	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		04/26/22 20:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		04/26/22 20:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		04/26/22 20:30	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		04/26/22 20:30	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		04/26/22 20:30	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		04/26/22 20:30	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		04/26/22 20:30	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		04/26/22 20:30	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		04/26/22 20:30	79-00-5	
Trichloroethene	**<0.21**	ug/L	1.0	1		04/26/22 20:30	79-01-6	
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		04/26/22 20:30	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		04/26/22 20:30	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		04/26/22 20:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		04/26/22 20:30	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		04/26/22 20:30	75-01-4	L2
Xylene (Total)	**<0.28**	ug/L	3.0	1		04/26/22 20:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		04/26/22 20:30	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		04/26/22 20:30	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		04/26/22 20:30	2199-69-1	
Preservation pH	**1.0**		0.10	1		04/26/22 20:30		

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: TRIP BLANK **Lab ID: 60398464007** Collected: 04/19/22 11:38 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		04/26/22 20:46	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		04/26/22 20:46	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		04/26/22 20:46	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		04/26/22 20:46	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		04/26/22 20:46	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		04/26/22 20:46	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		04/26/22 20:46	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		04/26/22 20:46	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		04/26/22 20:46	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		04/26/22 20:46	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:46	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		04/26/22 20:46	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		04/26/22 20:46	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		04/26/22 20:46	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		04/26/22 20:46	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		04/26/22 20:46	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		04/26/22 20:46	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		04/26/22 20:46	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		04/26/22 20:46	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		04/26/22 20:46	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		04/26/22 20:46	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		04/26/22 20:46	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		04/26/22 20:46	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:46	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 20:46	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		04/26/22 20:46	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		04/26/22 20:46	75-71-8	L2
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		04/26/22 20:46	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		04/26/22 20:46	107-06-2	
1,2-Dichloroethene (Total)	**<0.22**	ug/L	1.0	1		04/26/22 20:46	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		04/26/22 20:46	75-35-4	
cis-1,2-Dichloroethene	**<0.13**	ug/L	1.0	1		04/26/22 20:46	156-59-2	
trans-1,2-Dichloroethene	**<0.10**	ug/L	1.0	1		04/26/22 20:46	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		04/26/22 20:46	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		04/26/22 20:46	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		04/26/22 20:46	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		04/26/22 20:46	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		04/26/22 20:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		04/26/22 20:46	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:46	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		04/26/22 20:46	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		04/26/22 20:46	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		04/26/22 20:46	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		04/26/22 20:46	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		04/26/22 20:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		04/26/22 20:46	108-10-1	

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ANALYTICAL RESULTS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Sample: TRIP BLANK **Lab ID: 60398464007** Collected: 04/19/22 11:38 Received: 04/20/22 05:30 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		04/26/22 20:46	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		04/26/22 20:46	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		04/26/22 20:46	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		04/26/22 20:46	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		04/26/22 20:46	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		04/26/22 20:46	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		04/26/22 20:46	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		04/26/22 20:46	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		04/26/22 20:46	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		04/26/22 20:46	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		04/26/22 20:46	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		04/26/22 20:46	79-00-5	
Trichloroethene	**<0.21**	ug/L	1.0	1		04/26/22 20:46	79-01-6	
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		04/26/22 20:46	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		04/26/22 20:46	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		04/26/22 20:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		04/26/22 20:46	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		04/26/22 20:46	75-01-4	L2
Xylene (Total)	**<0.28**	ug/L	3.0	1		04/26/22 20:46	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		04/26/22 20:46	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		04/26/22 20:46	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		04/26/22 20:46	2199-69-1	
Preservation pH	**1.0**		0.10	1		04/26/22 20:46		

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QUALITY CONTROL DATA

Project: 31ST & PROSPECT
Pace Project No.: 60398464

QC Batch: 783344 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60398464001, 60398464002, 60398464003, 60398464004, 60398464005, 60398464006, 60398464007

METHOD BLANK: 3123859 Matrix: Water
Associated Lab Samples: 60398464001, 60398464002, 60398464003, 60398464004, 60398464005, 60398464006, 60398464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.084	1.0	04/26/22 17:35	
1,1,1-Trichloroethane	ug/L	<0.11	1.0	04/26/22 17:35	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	1.0	04/26/22 17:35	
1,1,2-Trichloroethane	ug/L	<0.14	1.0	04/26/22 17:35	
1,1-Dichloroethane	ug/L	<0.12	1.0	04/26/22 17:35	
1,1-Dichloroethene	ug/L	<0.22	1.0	04/26/22 17:35	
1,1-Dichloropropene	ug/L	<0.14	1.0	04/26/22 17:35	
1,2,3-Trichlorobenzene	ug/L	<0.93	1.0	04/26/22 17:35	
1,2,3-Trichloropropane	ug/L	<0.41	2.5	04/26/22 17:35	
1,2,4-Trichlorobenzene	ug/L	<0.73	1.0	04/26/22 17:35	
1,2,4-Trimethylbenzene	ug/L	<0.32	1.0	04/26/22 17:35	
1,2-Dibromo-3-chloropropane	ug/L	<0.78	2.5	04/26/22 17:35	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	04/26/22 17:35	
1,2-Dichlorobenzene	ug/L	<0.12	1.0	04/26/22 17:35	
1,2-Dichloroethane	ug/L	<0.21	1.0	04/26/22 17:35	
1,2-Dichloroethene (Total)	ug/L	<0.22	1.0	04/26/22 17:35	
1,2-Dichloropropane	ug/L	<0.14	1.0	04/26/22 17:35	
1,3,5-Trimethylbenzene	ug/L	<0.090	1.0	04/26/22 17:35	
1,3-Dichlorobenzene	ug/L	<0.13	1.0	04/26/22 17:35	
1,3-Dichloropropane	ug/L	<0.10	1.0	04/26/22 17:35	
1,4-Dichlorobenzene	ug/L	<0.13	1.0	04/26/22 17:35	
2,2-Dichloropropane	ug/L	<0.16	1.0	04/26/22 17:35	
2-Butanone (MEK)	ug/L	1.2J	10.0	04/26/22 17:35	
2-Chlorotoluene	ug/L	<0.11	1.0	04/26/22 17:35	
2-Hexanone	ug/L	<1.1	10.0	04/26/22 17:35	
4-Chlorotoluene	ug/L	<0.15	1.0	04/26/22 17:35	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.74	10.0	04/26/22 17:35	
Acetone	ug/L	3.1J	10.0	04/26/22 17:35	
Benzene	ug/L	<0.14	1.0	04/26/22 17:35	
Bromobenzene	ug/L	<0.088	1.0	04/26/22 17:35	
Bromochloromethane	ug/L	<0.20	1.0	04/26/22 17:35	
Bromodichloromethane	ug/L	<0.16	1.0	04/26/22 17:35	
Bromoform	ug/L	<0.68	1.0	04/26/22 17:35	
Bromomethane	ug/L	0.86J	5.0	04/26/22 17:35	
Carbon disulfide	ug/L	<0.98	5.0	04/26/22 17:35	
Carbon tetrachloride	ug/L	<0.17	1.0	04/26/22 17:35	
Chlorobenzene	ug/L	<0.089	1.0	04/26/22 17:35	
Chloroethane	ug/L	<0.37	1.0	04/26/22 17:35	
Chloroform	ug/L	<0.22	1.0	04/26/22 17:35	
Chloromethane	ug/L	<0.28	1.0	04/26/22 17:35	

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QUALITY CONTROL DATA

Project: 31ST & PROSPECT
Pace Project No.: 60398464

METHOD BLANK: 3123859 Matrix: Water
Associated Lab Samples: 60398464001, 60398464002, 60398464003, 60398464004, 60398464005, 60398464006, 60398464007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.13	1.0	04/26/22 17:35	
cis-1,3-Dichloropropene	ug/L	<0.078	1.0	04/26/22 17:35	
Dibromochloromethane	ug/L	<0.30	1.0	04/26/22 17:35	
Dibromomethane	ug/L	<0.11	1.0	04/26/22 17:35	
Dichlorodifluoromethane	ug/L	<0.20	1.0	04/26/22 17:35	
Ethylbenzene	ug/L	<0.12	1.0	04/26/22 17:35	
Hexachloro-1,3-butadiene	ug/L	0.79J	1.0	04/26/22 17:35	
Isopropylbenzene (Cumene)	ug/L	<0.097	1.0	04/26/22 17:35	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	04/26/22 17:35	
Methylene Chloride	ug/L	0.69J	1.0	04/26/22 17:35	
n-Butylbenzene	ug/L	<0.15	1.0	04/26/22 17:35	
n-Propylbenzene	ug/L	<0.12	1.0	04/26/22 17:35	
Naphthalene	ug/L	<0.82	10.0	04/26/22 17:35	
p-Isopropyltoluene	ug/L	<0.13	1.0	04/26/22 17:35	
sec-Butylbenzene	ug/L	<0.11	1.0	04/26/22 17:35	
Styrene	ug/L	<0.12	1.0	04/26/22 17:35	
tert-Butylbenzene	ug/L	<0.12	1.0	04/26/22 17:35	
Tetrachloroethene	ug/L	<0.33	1.0	04/26/22 17:35	
Toluene	ug/L	<0.25	1.0	04/26/22 17:35	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	04/26/22 17:35	
trans-1,3-Dichloropropene	ug/L	<0.18	1.0	04/26/22 17:35	
Trichloroethene	ug/L	<0.21	1.0	04/26/22 17:35	
Trichlorofluoromethane	ug/L	<0.16	1.0	04/26/22 17:35	
Vinyl chloride	ug/L	<0.17	1.0	04/26/22 17:35	
Xylene (Total)	ug/L	<0.28	3.0	04/26/22 17:35	
1,2-Dichlorobenzene-d4 (S)	%	98	80-120	04/26/22 17:35	
4-Bromofluorobenzene (S)	%	98	80-120	04/26/22 17:35	
Toluene-d8 (S)	%	99	80-120	04/26/22 17:35	

LABORATORY CONTROL SAMPLE: 3123860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	23.4	117	80-120	
1,1,1-Trichloroethane	ug/L	20	21.2	106	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	103	75-125	
1,1,2-Trichloroethane	ug/L	20	21.9	109	80-120	
1,1-Dichloroethane	ug/L	20	19.6	98	75-125	
1,1-Dichloroethene	ug/L	20	19.2	96	80-120	
1,1-Dichloropropene	ug/L	20	20.1	101	80-125	
1,2,3-Trichlorobenzene	ug/L	20	17.3	87	75-125	
1,2,3-Trichloropropane	ug/L	20	20.8	104	80-125	
1,2,4-Trichlorobenzene	ug/L	20	21.9	109	75-120	
1,2,4-Trimethylbenzene	ug/L	20	21.4	107	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	18.5	93	70-120	

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QUALITY CONTROL DATA

Project: 31ST & PROSPECT
Pace Project No.: 60398464

LABORATORY CONTROL SAMPLE: 3123860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	22.7	114	80-120	
1,2-Dichlorobenzene	ug/L	20	20.7	103	80-120	
1,2-Dichloroethane	ug/L	20	20.7	104	75-120	
1,2-Dichloroethene (Total)	ug/L	40	40.3	101	80-120	
1,2-Dichloropropane	ug/L	20	20.4	102	80-125	
1,3,5-Trimethylbenzene	ug/L	20	21.3	107	80-125	
1,3-Dichlorobenzene	ug/L	20	21.3	106	80-120	
1,3-Dichloropropane	ug/L	20	22.1	110	80-120	
1,4-Dichlorobenzene	ug/L	20	20.9	104	80-120	
2,2-Dichloropropane	ug/L	20	19.1	95	60-130	
2-Butanone (MEK)	ug/L	100	97.6	98	40-150	
2-Chlorotoluene	ug/L	20	20.9	104	80-120	
2-Hexanone	ug/L	100	105	105	45-150	
4-Chlorotoluene	ug/L	20	21.4	107	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	65-140	
Acetone	ug/L	100	105	105	20-175	
Benzene	ug/L	20	20.0	100	80-120	
Bromobenzene	ug/L	20	22.1	110	80-120	
Bromochloromethane	ug/L	20	21.1	106	80-125	
Bromodichloromethane	ug/L	20	21.3	107	80-125	
Bromoform	ug/L	20	21.4	107	60-135	
Bromomethane	ug/L	20	8.2	41	10-165	
Carbon disulfide	ug/L	20	17.0	85	75-135	
Carbon tetrachloride	ug/L	20	20.6	103	80-125	
Chlorobenzene	ug/L	20	21.8	109	80-120	
Chloroethane	ug/L	20	14.5	73	70-130	
Chloroform	ug/L	20	19.8	99	80-120	
Chloromethane	ug/L	20	9.8	49	35-155	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.4	107	80-125	
Dibromochloromethane	ug/L	20	22.3	111	70-120	
Dibromomethane	ug/L	20	21.1	106	80-120	
Dichlorodifluoromethane	ug/L	20	6.7	33	50-150	L2
Ethylbenzene	ug/L	20	22.6	113	80-120	
Hexachloro-1,3-butadiene	ug/L	20	21.4	107	65-135	
Isopropylbenzene (Cumene)	ug/L	20	22.8	114	80-125	
Methyl-tert-butyl ether	ug/L	20	20.0	100	65-130	
Methylene Chloride	ug/L	20	19.9	100	75-120	
n-Butylbenzene	ug/L	20	20.8	104	80-125	
n-Propylbenzene	ug/L	20	21.8	109	80-120	
Naphthalene	ug/L	20	17.2	86	70-120	
p-Isopropyltoluene	ug/L	20	20.9	105	80-135	
sec-Butylbenzene	ug/L	20	22.0	110	80-120	
Styrene	ug/L	20	23.9	120	80-120	
tert-Butylbenzene	ug/L	20	22.1	110	80-120	
Tetrachloroethene	ug/L	20	22.0	110	80-120	
Toluene	ug/L	20	21.1	105	80-120	

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QUALITY CONTROL DATA

Project: 31ST & PROSPECT
Pace Project No.: 60398464

LABORATORY CONTROL SAMPLE: 3123860

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	21.8	109	75-120	
Trichloroethene	ug/L	20	20.5	102	80-120	
Trichlorofluoromethane	ug/L	20	16.9	85	80-130	
Vinyl chloride	ug/L	20	11.9	60	65-130	L2
Xylene (Total)	ug/L	60	68.2	114	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: 31ST & PROSPECT
Pace Project No.: 60398464

QC Batch: 783841
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: 60398464002, 60398464004

METHOD BLANK: 3125729 Matrix: Water
Associated Lab Samples: 60398464002, 60398464004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<0.33	1.0	04/29/22 02:50	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	04/29/22 02:50	
4-Bromofluorobenzene (S)	%	103	80-120	04/29/22 02:50	
Toluene-d8 (S)	%	103	80-120	04/29/22 02:50	

LABORATORY CONTROL SAMPLE: 3125730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.9	105	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALIFIERS

Project: 31ST & PROSPECT
Pace Project No.: 60398464

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 31ST & PROSPECT
Pace Project No.: 60398464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60398464001	**MW-3**	EPA 5030B/8260	783344		
60398464002	**MW-3-FD**	EPA 5030B/8260	783344		
60398464002	**MW-3-FD**	EPA 5030B/8260	783841		
60398464003	**RINSATE**	EPA 5030B/8260	783344		
60398464004	**MW-2**	EPA 5030B/8260	783344		
60398464004	**MW-2**	EPA 5030B/8260	783841		
60398464005	**MW-1**	EPA 5030B/8260	783344		
60398464006	**FIELD BLANK**	EPA 5030B/8260	783344		
60398464007	**TRIP BLANK**	EPA 5030B/8260	783344		

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WO# : 60398464

60398464

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-000		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: TetraTech

Courier: FedEx ☐ UPS ☐ VIA ☑ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ 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: 1299 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 3.0 **Corr. Factor** -1.0 **Corrected** 2.0

Date and initials of person examining contents: JM 4/26/22

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	
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: VOA	☐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: _____ Date: _____

Qualtrax Document ID: 30468

Page 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	TETRA TECH EMI	Report To:	Emily Fisher	Attention:	Stephanie Caples
Address:	415 Oak	Copy To:	Stephanie Caples stephanie.caples@tetratech.com	Company Name:	
Kansas City, MO 64106				Address:	
Email:	emily.fisher@tetratech.com	Purchase Order #:		Pace Quote:	
Phone:	(816)412-1755 Fax	Project Name:	31st & Prospect	Pace Project Manager:	nolie.wood@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	

Regulatory Agency

State / Location: MO

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	Trip BLANK	Residual Chlorine (Y/N)
1	MW-3			4/19/22	1020				3				X						X		
2	MW-3-FD				1																
3	Rinsate				1038																
4	MW-2				1058																
5	MW-1				1125																
6	Field Blank				1134																
7	Trip Blank				1138				2											X	
8																					
9																					
10																					
11																					
12																					

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

603984647

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Stephanie Caples	4/19/22	1400	Malae/Pace	4/20	0530	20	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Stephanie Caples

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/19/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Client: TETRA TECH

Profile # 970, 2

Site: 31st & Prospect

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT	5																														
2																																
3																																
4																																
5																																
6																																
7	WT	2	TRIP				BLANKS																									
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60398464

DATA VERIFICATION REPORT

Prepared by: David Reed
Date: May 10, 2022
Site Name/Job Number: 31st & Prospect Site / 103Z65210190.08.03

Laboratory: Pace Analytical Services – Lenexa, KS

Data Package or SDG Number: 60398464

Sample Designations/Names:

MW-3 MW-3-FD RINSATE MW-2 MW-1 FIELD BLANK TRIP BLANK

Matrices: Groundwater
Analytical Parameters: VOCs by EPA Method 5030B/8260

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	☑	☐	☐	
Data package completeness	☑	☐	☐	
Sample preservation, storage, and holding times	☑	☐	☐	
Method and field blank contamination	☑	☐	☐	Acetone, bromomethane, 2-butanone, hexachloro-1,3-butadiene, and methylene chloride were detected in the method blank at concentrations between the method detection limit (MDL) and the reporting limit (RL). All target analytes in both the field and trip blanks were reported as non-detect or greater than 10 times the amount detected in the method blank. No qualifications would be applied. The RINSATE sample contained 4-methyl-2-pentanone and tetrachloroethene at concentrations between the MDL and RL; therefore, the 4-methyl-2-pentanone result for sample MW1 would be qualified as estimated, possibly biased high (flagged J+).

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Surrogate spikes	☑	☐	☐	Surrogate spikes were performed by the laboratory, and all were within control limits.
Matrix spikes/matrix spike duplicates (MS/MSD)	☐	☐	☑	Matrix spikes were not performed by the laboratory.
Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD)	☑	☐	☐	The percent recoveries for dichlorodifluoromethane and vinyl chloride were below the laboratory acceptance criteria; therefore, all results for these two compounds would be qualified as estimated, possibly biased low (flagged UJ). An LCSD sample was not analyzed.
Other (field duplicates)	☑	☐	☐	Duplicate precision between parent sample MW-3 and duplicate MW-3-FD was poor for methylene chloride and 1,1,2-trichloroethane. For both compounds, the parent sample results were 1-2 orders of magnitude higher than results for the duplicate; therefore, the results for these two compounds in both samples would be qualified as estimated (flagged J/UJ).
Summary Data is usable with the qualifications discussed in the Method and field blank contamination, LCS/LCSDs, and Other (field duplicates) sections. Results reported between the method detection limit and the reporting limit were qualified as estimated (flagged J) by the laboratory. Target analytes detected in the method blank sample were qualified with a "B" in associated samples by the laboratory; however, these qualifiers would be removed for the final data.				