

Semi-Annual Operation and Monitoring Report, July - December 2018

Former Kenosha Engine Plant, Kenosha, Wisconsin

WDNR FID 230004500, BRRTS# 02-30-000327

June 7, 2019

Mr. Paul Grittner
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
141 NW Barstow St., Room 180
Waukesha, WI 53188

**Subject: Semi-Annual Operation and Monitoring Report, July-December 2018
Former Kenosha Engine Plant, Kenosha, Wisconsin
WDNR FID 230004500, BRRTS# 02-30-000327**

Dear Mr. Grittner,

AECOM is transmitting the attached Semi-Annual Remediation Site Progress and Operation, Maintenance, Monitoring and Optimization Report (Form 4400-194) for the former Kenosha Engine Plant (KEP) for the time period July 2018 through December 2018 on behalf of the City of Kenosha.

AECOM continues operation, maintenance, and monitoring (OM&M) of three groundwater remediation systems at the KEP.

The three systems are:

- Sump 6
- Central System: Sumps 18 & 23
- Southern System: Sumps 7 & 17R

Figure 1 depicts sump locations and perimeter groundwater monitoring well locations. Treated groundwater is discharged to the Kenosha Water Utility sanitary system at three different locations near the boundary of the KEP. During this operational period remedial systems have been maintained for continued operation. A review of the current conditions of each of the systems and the measures taken during the reporting period to restore/improve operations are provided below.

System Description and Operational Status

AECOM maintained the operational status of each of the three groundwater remediation systems located at the KEP during the period from July through December 2018. The system component(s) encountered the following operational breakdowns during the period and have been restored back into working order:

- Sump 6 – The system has been functioning normally except for the following intermittent interruptions;
 - On November 5th a replacement pump was installed in Sump 6 as a result of normal wear and use.

- Central System – The system has been functioning normally except for the following intermittent interruptions;
 - On August 3rd, the system was restarted after the completion of one year of groundwater monitoring following the ERD groundwater pilot test conducted in the general vicinity of the Central System.
 - On August 28th a power failure occurred shutting off the air compressor, the compressor was restated on August 31st.
- Southern System – The system has been operating normally.

The conditions of the system components were reviewed on January 4, 2019 and are summarized here:

Sump 6

- Pump – Depth to water and depth to bottom were adequate for continued groundwater removal.
- System is operating.

Central System: Sumps 18 and 23

- Pump – Depth to water and depth to bottom were adequate for continued groundwater removal.
- System is operating.

Southern System: Sumps 7, 15 and 17R

- Pumps – Depth to water and depth to bottom were adequate for continued groundwater removal. Sump 15 was abandoned on September 13, 2018 during the Phase II Soil Remediation project. The Sump 15 discharge and electrical lines were located in a berm that was partially removed with a contaminated soil excavation conducted as part of Phase I of the KEP soil remediation and the piping was above grade and unprotected. Additionally, AECOM's review of Sump 15 indicated that Sump 15 was not controlling the southern boundary plume but was drawing the central plume from under former Building 53 to the southeast. Thus, Sump 15's removal from the southern remediation system was approved by WDNR.
- System is operating.

Evaluation of Current Monitoring Data

A water table contour map (Figure 2) and a potentiometric map of the deeper groundwater (Figure 3, as measured by KEP piezometers at a depth of approximately 25 feet bgs) for October 2018 are attached. Capture zones for the Southern System (Sumps 7 and 17R) are illustrated by the 614 foot contour located adjacent to the system building. The capture zone for Central System (Sumps 18 and 23) is illustrated by the 618 foot contour located around the system building. The capture zone for Sump 6 is illustrated by the 615 foot contour located around the system building.

Influent (pre-treatment) groundwater samples are collected from each individual sump and effluent (post-treatment) samples are collected from each treatment system. The samples are analyzed for volatile organic compounds (VOCs), diesel range organics (DRO) and gasoline range organics (GRO) in conformance with the Kenosha Water Utility discharge permit. Tables 1 and 2 provide a summary of influent and effluent samples (detected VOCs, DRO and GRO) collected, with the most recent results from October 2018 shown for four operating sumps (Sumps 6, 18, 7, and 17R).

After reviewing the influent concentrations for each sump, generally one contaminant was dominant (as evidenced by its exceedance of the NR 140 Wisconsin Administrative Code groundwater quality Enforcement Standard [ES]) in its concentration over time. The individual contaminants and their trends by sump are:

Sump 6

- Sump 6 – Trichloroethene
The influent TCE cis-1,2-dichloroethene and vinyl chloride concentrations are present above their respective ES. The detected methylene chloride concentration was above the ES, but is likely a laboratory introduced anomaly.

Central System

- Sump 18 – Benzene
The influent benzene concentration exceeds the ES. Cis-1,2-dichloroethene and vinyl chloride also exceed the ES. The detected methylene chloride concentration was above the ES but is likely a laboratory introduced anomaly.

Southern System

- Sump 7 – Vinyl Chloride
Only the influent vinyl chloride concentration exceeds the ES.
- Sump 17R – Trichloroethene
The influent TCE, cis-1,2-dichloroethene and vinyl chloride concentrations exceed their respective ES.

The effluent results are tabulated on Table 2. The removal efficiency for any individual analyte was generally 90% or higher, most often, 98 to 99%. The analyte concentrations were below the required discharge permit limit established by the Kenosha Water Utility for discharge to the sanitary sewer. The systems are operating in compliance with discharge requirements.

Table 3 presents a summary of the operational data collected for July through December of 2018 and provides a tabulation of the total groundwater flow through each system.

Plan for Repair, Replacement and Optimization

Sump 6 – The groundwater extraction pump was replaced during the operational period. Biofouling reduction on the pump inlet screen and flow meter are planned during the next operational period to extend the life of the pump and ensure treatment flow is recorded.

Central System – The capture zone from Sump 18 appears to be sufficient at the current time. If the capture zone needs to be increased Sump 23 will be used for additional plume capture. Biofouling reduction on the pump inlet screen and flow meter are planned during the next operational period to ensure treatment flow is recorded.

Southern System – Biofouling reduction on the pump inlet screen and flow meter are planned during the next operational period to ensure treatment flow is recorded.

Optimization of the three operating groundwater recovery systems will continue in spring of 2019 with regular monitoring of flow and evaluation of nearby groundwater elevations for the control of the hydraulic gradient with the least amount of pumping required.

Closing

WDNR form 4400-194 Remediation Site Progress, and Operation, Maintenance, Monitoring & Optimization Report is attached as well as supporting tables and figures as required. The Kenosha Engine Plant groundwater remediation system effectively reduces contaminant concentration in compliance with the wastewater discharge permits.

Yours sincerely,

AECOM Technical Services, Inc.


Lanette L. Altenbach, P.G., C.P.G.
Senior Hydrogeologist
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Kevin L. Brehm, P.E.
Associate Vice President
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Attachments

WDNR form 4400-194 Remediation site Progress, and Operation, Maintenance, Monitoring & Optimization Report
Table 1 – Influent Summary (Detected VOCs, DRO and GRO)
Table 2 – Effluent Summary
Table 3 – Operational Summary
Figure 1 – Monitoring Well Location Map (October 2018)
Figure 2 – Potentiometric Surface in Water Table Wells (October 2018)
Figure 3 – Potentiometric Surface in Piezometers (October 2018)

Pace Analytical – Laboratory Report (Pace Project ID 40177227)

Cc: Shelly Billingsley MBA, P.E., Director of Public Works, City of Kenosha
Katie Karow, Director of Wastewater Treatment, Kenosha Water Utility

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

<http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf>

Section GI - General Site Information

A. General Information

1. Site name

Kenosha Engine Plant

2. Reporting period from: 07/01/2018 To: 12/31/2018 Days in period: 184

3. Regulatory agency (enter DNR, DATCP and/or other) 4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
 DNR 02-30-000327

5. Site location
 Region County Address
 Southeast Region Kenosha 5555 30th Avenue
 Municipality name City Town Village Township Range E Section ¼ ¼ ¼
 City of Kenosha N OW

6. Responsible party 7. Consultant
 Name Select if the following information has changed since the last submittal
 City of Kenosha Company name
 Mailing address AECOM
 625 52nd Street, Kenosha, WI 53140 Mailing address Phone number
 Phone number 1555 N. RiverCenter Dr, Suite 214, Milwaukee, WI 53212 (414) 944-6080
 (262) 653-4000

8. Contaminants
 VOCs

9. Soil types (USCS or USDA)
 Sand, silty sand, silt, clay

10. Hydraulic conductivity(cm/sec): 11. Average linear velocity of groundwater (ft/yr)
 10-2 to 10-4 1.3 to 1700

12. If soil is treated ex situ, is the treatment location off site? Yes No
 If yes, give location: Region County
 Municipality name City Town Village Township Range E Section ¼ ¼ ¼
 N OW

Site name: Kenosha Engine Plant
Reporting period from: 07/01/2018 To: 12/31/2018
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B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Groundwater extraction (submit a completed Section GW-1).
- Free product recovery (submit a completed Section GW-1).
- In situ air sparging (submit a completed Section GW-2).
- Groundwater natural attenuation (submit a completed Section GW-3).
- Other groundwater remediation method (submit a completed Section GW-4).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Soil natural attenuation (submit a completed Section IS-2).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Biopiles (submit a completed Section ES-1).
- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? Yes No
If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness Yes No
If yes, explain:

3. Is natural attenuation an effective low cost option at this time? Yes No

4. Is closure sampling warranted at this time? Yes No

5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No
If yes, explain:

The pumping rates of the systems have been modified seasonally to achieve optimal groundwater rcapture without excessive wear on the groundwater extraction systems.

D. Economic and Cost Data to Date

- 1. Total investigation cost: _____
- 2. Implementation costs (design, capital and installation costs, excluding investigation costs): _____
- 3. Total costs during the previous reporting period: _____
- 4. Total costs during this reporting period: _____
- 5. Total anticipated costs for the next reporting period: _____
- 6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No
If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout: _____

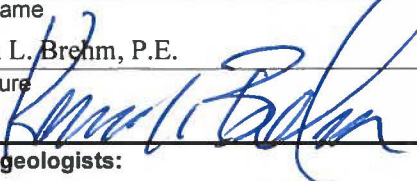
Site name: Kenosha Engine Plant
Reporting period from: 07/01/2018 To: 12/31/2018
Days in period: 184

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.


Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name Kevin L. Brehm, P.E.	Title Associate Vice President
Signature 	Date 6/6/19

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name Lanette Altenbach, PG	Title Senior Hydrogeologist/Project Manager II
Signature 	Date 6-6-19

Scientists:

I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Other Persons:

Print name	Title
Signature	Date

Professional Seal(s), if applicable:



Site name: Kenosha Engine Plant
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Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

- 1. Total number of groundwater extraction wells or trenches available: 5 and the number in use during period: 4
- 2. Number of days of operation (only list the number of days the system actually operated, if unknown explain:
Sump 6 (Northern System) - 184 days
Sumps 18 & 23 (Central System) - 147 days, system restarted on August 3, 2018 following the completion of the groundwater pilot study for ERD.
Sumps 7 & 17R (Southern System) - 184 days
- 3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
Sump 6 (Northern System) - 100%
Sumps 18 & 23 (Central System) - 97%
Sumps 7 & 17R (Southern System) - 100%
- 4. Quantity of groundwater extracted during this time period: 2,105,435.64 gallons
- 5. Average groundwater extraction rate: 8 gpm
- 6. Quantity of dissolved phase contaminants removed during this time period in pounds: _____ lbs

B. Free Product Recovery System Operation

- 1. Is free product (nonaqueous phase liquid) being recovered at this site? Yes No
If yes, explain:
- 2. Quantity of free product extracted during this time period (enter none if none): _____ gallons
- 3. Average free product extraction rate: _____ gpm

C. System Effectiveness Evaluation

- 1. Is a contaminated groundwater plume fully contained in the capture zone? Yes No
If no, explain:
- 2. If free product is present, is the free product fully contained in capture zone? Yes No
If no, explain:
- 3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:
Free product is trapped within the saturated zone at concentrations not recoverable as evidenced by little to no free product recovery in the oil/water separators associated with each treatment unit.
- 4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.
 - a. Contaminant: _____
 - b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %
 - c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L
 - d. Maximum contaminant concentration level in any extraction well of that contaminant: _____ µg/L

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- e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Groundwater contour map with capture zone indicated.
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
 - Graph of contaminant concentrations versus time for each extraction well in use during the period.
 - Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Table 2
Effluent Summary KEP Groundwater Remediation Systems
Kenosha, Wisconsin

AECOM 60485212

Well Location	Sample Date	1,1-Dichloro ethene (ug/L)	1,1-Dichloro ethane (ug/L)	trans-1,2-Dichloro ethene (ug/L)	1,2,4-Trimethyl benzene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Benzene (ug/L)	cis-1,2-Dichloro ethene (ug/L)	Ethyl benzene (ug/L)	Methyl tert-butyl ether (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)	Xylenes, Total (ug/L)	Gasoline Range Organics (ug/L)	Diesel Range Organics (mg/L)	
Sump 6	9/28/2011	ND	ND	1.9 J	ND	ND	ND	<u>42</u>	ND	ND	ND	ND	18	0.81 J	ND	<10	0.22 B	
	3/26/2012	<u>1.5 J</u>	4.6	24	ND	ND	ND	320	ND	ND	ND	ND	430	8.5	ND	240	0.35	
	7/9/2012	ND	1.7	7.8	ND	ND	ND	140	ND	ND	ND	ND	160	3.4	ND	95	0.18	
	10/2/2012	ND	2.8	13	ND	ND	ND	290	ND	ND	ND	ND	280	8.8	ND	170	0.23	
	4/4/2013	ND	1.6	9.3	ND	ND	ND	130	ND	ND	ND	ND	230	1.5	ND	110	0.25	
	6/25/2013	ND	ND	1.1	ND	ND	ND	<u>19</u>	ND	ND	ND	ND	ND	13	ND	ND	14 J	0.23
	10/10/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8	ND	ND	<8.8	0.36
	1/8/2014	0.54 J	1.9	9.8	ND	ND	ND	200	ND	ND	ND	ND	ND	110	8.9	ND	96	0.16
	3/6/2015	<0.41	<0.24	<0.26	<0.50	ND	<0.50	0.53 J	<0.50	<0.17	<2.5	<2.5	<0.50	<u>1.2</u>	<0.18	<1.5	<29.6	0.3
	3/9/2016	<0.41	<0.24	2.0	<0.50	ND	<0.50	<u>29.3</u>	<0.50	<0.17	<2.5	<2.5	<0.50	56.5	0.55 J	<1.5	<29.6	0.17
	9/7/2016	<0.41	<0.24	1.5	<0.50	<0.50	<0.50	<u>43.2</u>	<0.50	0.48 J	<2.5	<2.5	<0.50	27.8	<0.18	<1.5	<29.6	0.17
	3/7/2017	<0.41	0.94J	8.7	<0.50	<0.50	<0.50	138	<0.50	0.71 J	<2.5	<2.5	<0.50	175	2.4	<1.5	85	0.26
	10/5/2017	0.47 J	1.8	12.5	<0.50	<0.50	<0.50	234	<0.50	1.0	<2.5	<2.5	<0.50	296	4.2	<1.5	120	0.037 J
	3/9/2018	<0.41	<0.24	<0.26	<0.50	<0.50	<0.50	1.1	<0.50	<0.17	<2.5	<2.5	<0.50	<u>1.2</u>	<0.18	<1.5	<30	0.16
10/5/2018	<0.24	<0.27	<1.1	<0.84	<0.24	<0.25	2.1	<0.22	<1.2	<1.2	<1.2	<0.17	<u>1.8</u>	<0.17	<1.5	<36	0.70	
Sump 18/23	3/30/2012	ND	ND	ND	ND	ND	<u>0.62 J</u>	5.8	ND	ND	0.56 J	ND	ND	0.30 J	ND	26 J	2.5	
	7/9/2012	ND	ND	ND	ND	ND	0.28 J	4.1	ND	ND	ND	ND	ND	0.56	ND	<6.9	1.6	
	10/2/2012	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	0.34 J	ND	<6.9	2.3	
	4/4/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.8	0.85	
	6/24/2013	ND	ND	ND	ND	ND	1.1	5.5	ND	ND	ND	ND	ND	0.89	ND	<8.8	0.87	
	10/10/2013	ND	1.1	ND	ND	ND	<u>0.75</u>	ND	ND	ND	ND	0.26 J	ND	0.76	ND	<8.8	1.4	
	1/8/2014	ND	2	ND	ND	ND	<u>0.76</u>	12	ND	ND	ND	0.36 J	ND	0.61	0.32 J	10 J	0.92	
	9/11/2015	<0.41	<0.24	<0.26	<0.50	ND	<0.50	0.59 J	<0.50	<0.17	<2.5	<2.5	<0.50	<0.33	<0.18	<1.50	<29.6	0.14 J
	3/9/2016	<0.41	25.9	0.97 J	1.6	ND	8.9	134	1.7	<0.17	3.1 J	7.1	<0.33	22.7	10.3	123	1.3	
	9/7/2016	<0.41	15.1	<0.26	<0.50	1.1	2.6	<u>53.9</u>	<0.50	<0.17	<2.5	0.73 J	<0.33	6.2	<1.5	29.9 J	1.2	
	3/7/2017	<0.41	17.1	0.76 J	1.1	3.2	5	77	1	<0.17	<2.5	3.9	0.48 J	15.1	6.5	75	1.3	
	10/5/2017	System off per localized groundwater treatment study, no sample collected.																
	3/9/2018	System off per localized groundwater treatment study, no sample collected.																
	10/5/2018	<0.24	21.2	<1.1	<0.84	2.9	<u>2.8</u>	<u>20.2</u>	0.39 J	<1.2	2.2 J	2.9 J	<0.26	1.4	4.5	37 J	0.26	

Table 2
Effluent Summary KEP Groundwater Remediation Systems
Kenosha, Wisconsin

AECOM 60485212

Well Location	Sample Date	1,1-Dichloro ethene (ug/L)	1,1-Dichloro ethane (ug/L)	trans-1,2-Dichloro ethene (ug/L)	1,2,4-Trimethyl benzene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Benzene (ug/L)	cis-1,2-Dichloro ethene (ug/L)	Ethyl benzene (ug/L)	Methyl tert-butyl ether (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)	Xylenes, Total (ug/L)	Gasoline Range Organics (ug/L)	Diesel Range Organics (mg/L)
Sump 7/15/17R																	
	9/28/2011	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	0.21 J	ND	47 J	1.5 B
	3/30/2012	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	<u>0.62 J</u>	ND	ND	<10	1.2
	7/11/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.9	2.2
	9/28/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.9	1.7
	4/4/2013	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	<8.8	0.71
	6/25/2013	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	<8.8	2.3
	10/10/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.8	3.5
	1/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.8	1.2
	6/19/2014	<0.41	0.91 J	0.83 J	<0.50	ND	<0.50	<u>22.7</u>	<0.50	<0.17	<2.5	<0.50	<u>0.94 J</u>	1.7	<1.5	<29.6	3.1
	9/5/2014	<0.41	0.35 J	2	<0.50	ND	<0.50	<u>28.4</u>	<0.50	<0.17	<2.5	<0.50	<u>2.0</u>	0.69 J	<1.5	31.8 J	1.3
	12/3/2014	<0.41	<0.24	<0.26	<0.50	ND	<0.50	<0.26	<0.50	<0.17	<2.5	<0.50	<0.33	<0.18	<1.5	<29.6	1.4
	9/9/2015	<0.41	<0.24	<0.26	<0.50	ND	<0.50	<0.26	<0.50	<0.17	<2.5	<0.50	<0.33	<0.18	<1.5	<29.6	0.32
	3/9/2016	<0.41	<0.24	<0.26	<0.50	ND	<0.50	<0.26	<0.50	<0.17	<2.5	<0.50	<0.33	<0.18	<1.5	<29.6	1.8
	9/7/2016	<0.41	<0.24	<0.26	<0.50	0.5	<0.50	<0.26	<0.50	<0.17	<2.5	<0.50	<0.33	<0.18	<1.5	<29.6	0.54
	3/7/2017	<0.41	<0.24	<0.26	<0.50	<0.50	<0.50	<0.26	<0.50	<0.17	<2.5	<0.50	<0.33	<0.18	<1.5	<30	0.68
	10/5/2017	<0.41	<0.24	<0.26	<0.50	<0.50	<0.50	5.1	<0.50	<0.17	<2.5	<0.50	0.40 J	<0.18	<1.5	<30	0.97
	3/9/2018	<0.41	<0.24	0.45J	<0.50	<0.50	<0.50	6.6	<0.50	<0.17	<2.5	<0.50	0.42 J	0.91 J	<1.5	<30	1.1
	10/5/2018	<0.24	<0.27	<1.1	<0.84	<0.24	<0.25	1.4	<0.22	<1.2	<1.2	<0.17	<0.26	0.20 J	<1.5	<36	1.5
PAL ^A		0.7	85	20	96*	40	0.5	7	140	12	10	160	0.5	0.02	400	NE	NE
ES ^B		7	850	100	480*	200	5	70	700	60	100	800	5	0.2	2,000	NE	NE

ug/L = micrograms per liter NE= Not Established J=Estimated concentration at or above the limit of detection and below the limit of quantitation <2.5 - not detected at the detection limit shown

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are underlined italics.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2017, exceedances are **bold**.

Table 3
Remedial Systems Operational Data
Kenosha Engine Plant
5555 30th Ave Kenosha, Wisconsin

Sump	Date	Flow Meter Reading	Total Flow	Permits Limit Achieved by Effluent?		
				GRO	DRO	VOC's
6	8/6/2018	4,382,722.20	199,556.40	Yes	Yes	Yes
	8/31/2018	4,531,891.10	149,168.90			
	10/5/2018	4,763,907.50	232,016.40			
	11/2/2018	4,823,115.30	59,207.80			
	12/7/2018	5,027,754.50	204,639.20			
	1/4/2019*	5,167,411.30	139,656.80			
18	8/6/2018	3,432,257.80	13,809.94	Yes	Yes	Yes
	8/31/2018	3,486,489.85	54,232.05			
	10/5/2018	3,664,190.35	177,700.50			
	11/2/2018	3,773,583.55	109,393.20			
	12/7/2018	3,848,708.65	75,125.10			
	1/4/2019*	3,909,481.15	60,772.50			
23	8/6/2018	4,238,580.10	0.00	Pump not in operation during semi-annual period. No effluent sample.		
	8/31/2018	4,238,580.10	0.00			
	10/5/2018	4,238,580.10	0.00			
	11/2/2018	4,238,580.10	0.00			
	12/7/2018	4,238,580.10	0.00			
	1/4/2019*	4,238,580.10	0.00			
7	8/6/2018	394,294.70	27,526.76	Yes	Yes	Yes
	8/31/2018	412,032.56	17,737.86			
	10/5/2018	431,761.59	19,729.03			
	11/2/2018	449,312.07	17,550.48			
	12/7/2018	469,017.41	19,705.34			
	1/4/2019*	485,976.63	16,959.22			
15	8/6/2018	39,702.13	0.00	Pump not in operation during semi-annual period. No effluent sample. Additionally Sump abandoned on September 13, 2018 and will not be included on future reports.		
	8/31/2018	39,702.13	0.00			
	10/5/2018	39,702.13	0.00			
	11/2/2018	39,702.13	0.00			
	12/7/2018	39,702.13	0.00			
	1/4/2019*	39,702.13	0.00			
17R	8/6/2018	1,398,313.64	197,340.21	Yes	Yes	Yes
	8/31/2018	1,552,657.40	154,343.76			
	10/5/2018	1,626,856.92	74,199.52			
	11/2/2018	1,634,990.55	8,133.63			
	12/7/2018	1,647,033.58	12,043.03			
	1/4/2019*	1,711,921.59	64,888.01			

Notes:

1) Total flow is difference of current month flow reading minus prior month flow reading, unless otherwise noted.

2) No meter on effluent discharge at any of the systems

3) Total flow covers the time period from 7/6/2016 to 1/8/2018.

* Date of flow meter readings collected during next semi-annual reporting period (January through July 2019).

P:\60485212900_Work\CAD\DKEP - O&M - base-map-2018 - October.dwg; 5/22/2019 6:02:14 AM; SCHOLZ, CAROLYN; ---



LEGEND:

- MONITORING WELLS TO BE SAMPLED
- SUMPS

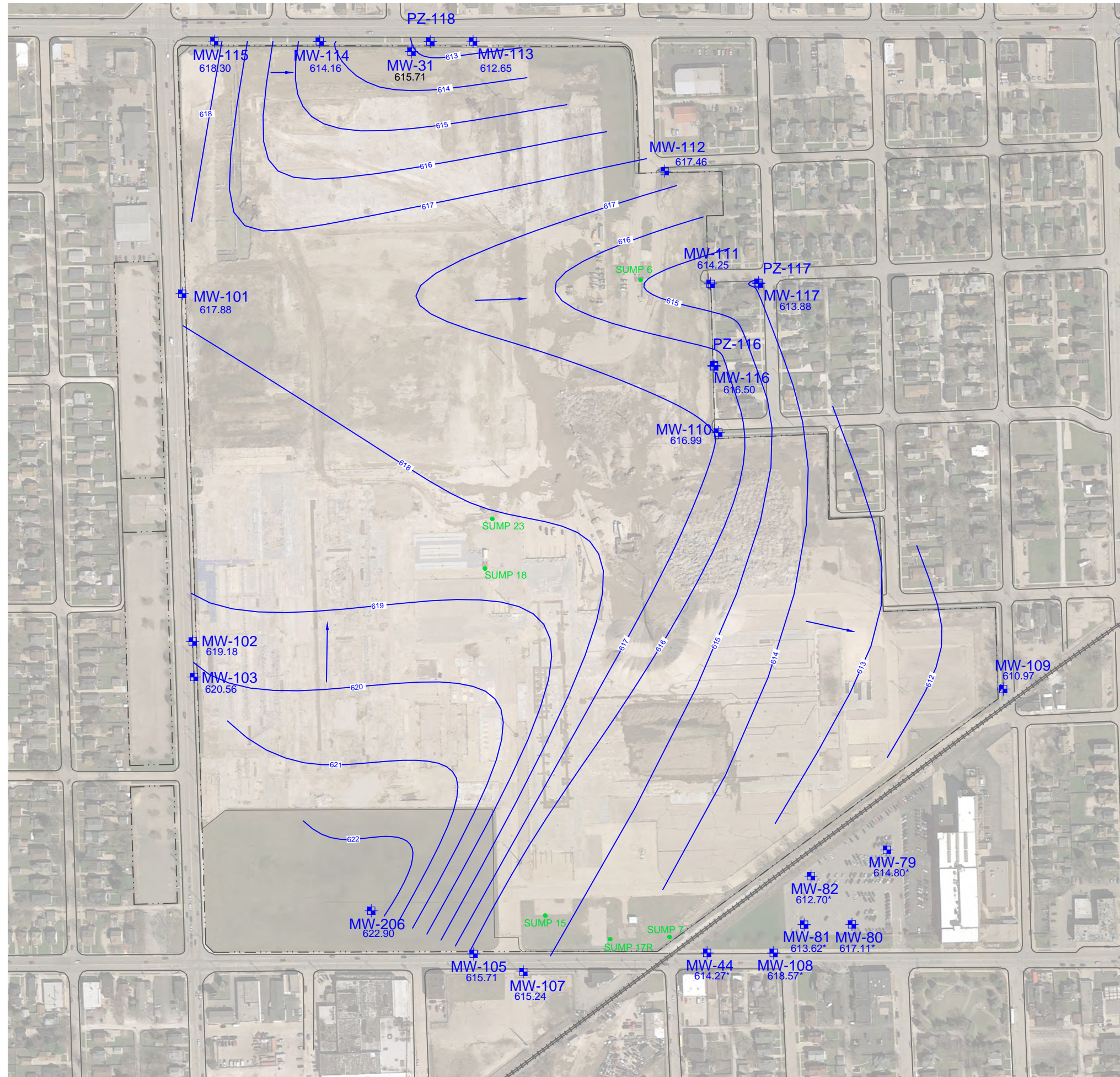


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**SUMP AND PERIMETER MONITORING WELL LOCATIONS
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**

Drawn :	JSM 11/1/2018
Checked:	SAE 11/1/2018
Approved:	LLA 11/1/2018
PROJECT NUMBER	60605022
FIGURE NUMBER	1

\\usmwf1s001\prodData\Projects\60485212\900_Work\CADD\KEP - O&M - base-map-2018 - October.dwg; 11/5/2018 11:18:55 AM; MACKINNEY, JOEL; ---



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- X --- EXISTING FENCE
- PERIMETER MONITORING WELL LOCATIONS
- 617 — WATER TABLE CONTOURS
- *

WELLS LOCATED SOUTHEAST OF THE RAILROAD TRACKS (SOUTHEAST OF KEP) ARE UNDER THE INFLUENCE OF THE SOUTHERN GROUNDWATER RECOVERY SYSTEM AND ARE NOT INCLUDED IN THE CONTOURS BECAUSE WATER LEVELS ADJACENT TO THE RECOVERY SYSTEM WERE NOT MEASURED.

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. MW-31 NOT USED FOR CONTOUR MAP



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**POTENTIOMETRIC SURFACE
 PERIMETER WATER TABLE MONITORING WELLS - OCTOBER 2018
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**

Drawn : JSM 10/29/2018

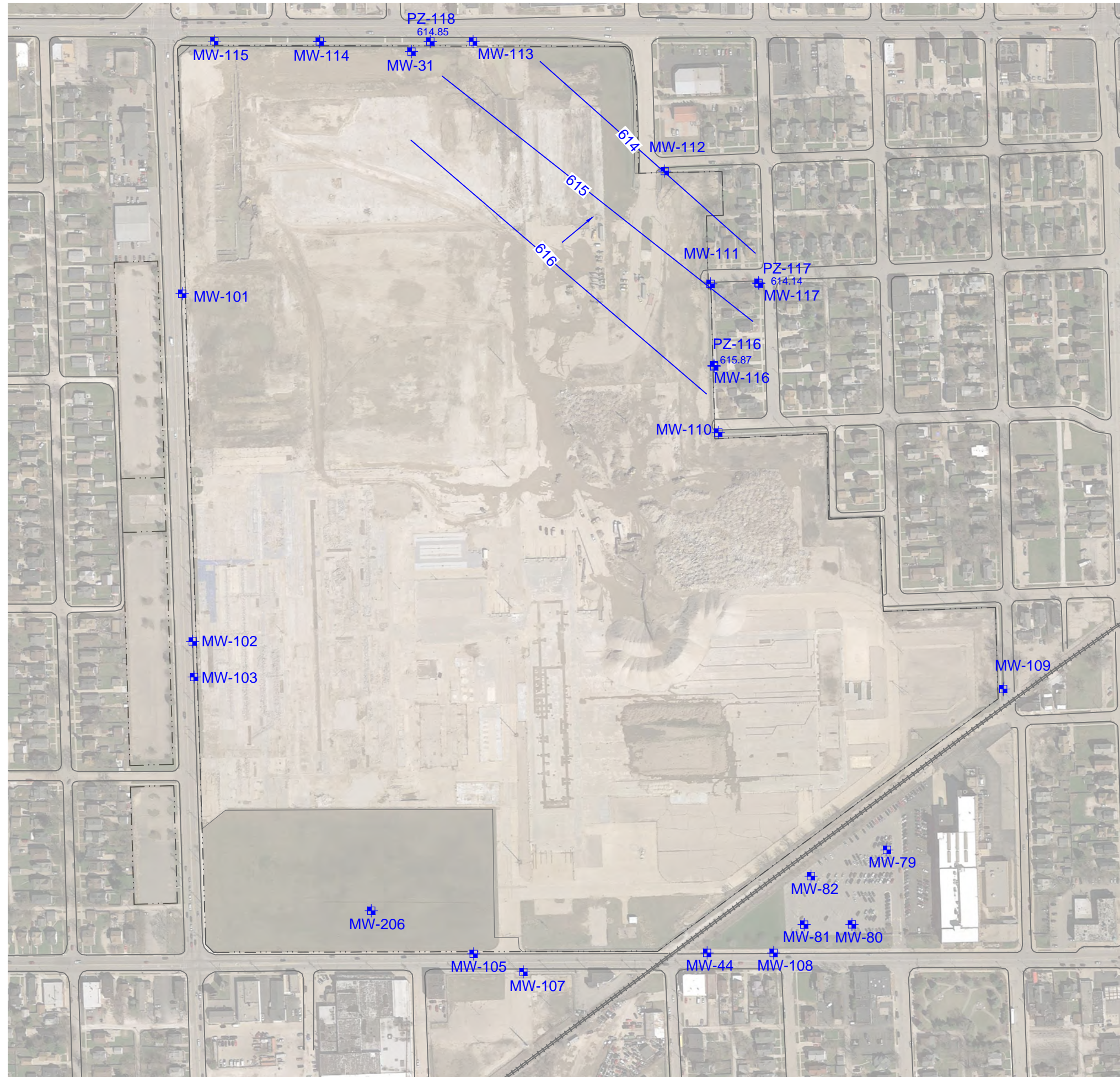
Checked: SAE 10/29/2018

Approved: LLA 10/29/2018

PROJECT NUMBER **60485212**

FIGURE NUMBER **2**

\\usmwf1s001\prodData\Projects\60485212\900_Work\CADD\KEP - O&M - base-map-2018 - October.dwg; 11/1/2018 3:36:13 PM; MACKINNEY, JOEL; ----



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- X --- EXISTING FENCE
- PERIMETER PIEZOMETER LOCATIONS
- 617 — WATER TABLE CONTOURS

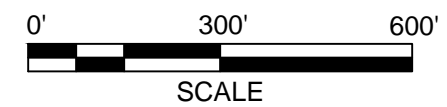
NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.



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POTENTIOMETRIC SURFACE
 PERIMETER PIEZOMETERS - OCTOBER 2018
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN



Drawn : JSM 10/29/2018

Checked: SAE 10/29/2018

Approved: LLA 10/29/2018

PROJECT NUMBER 60485212

FIGURE NUMBER 3

October 15, 2018

Lanette Altenbach
AECOM, Inc.
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60485212.3 KEP O&M ACTIVITIES
Pace Project No.: 40177227

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177227001	SUMP 6 IN	Water	10/05/18 08:55	10/06/18 10:10
40177227002	SUMP 6 EFF	Water	10/05/18 09:15	10/06/18 10:10
40177227003	SUMP 7 IN	Water	10/05/18 10:55	10/06/18 10:10
40177227004	SUMP 17R IN	Water	10/05/18 11:10	10/06/18 10:10
40177227005	SUMP 7/17R EFF	Water	10/05/18 11:30	10/06/18 10:10
40177227006	TRIP BLANK	Water	10/05/18 08:30	10/06/18 10:10
40177227007	SUMP 18 IN	Water	10/05/18 10:05	10/06/18 10:10
40177227008	SUMP 18 EFF	Water	10/05/18 10:15	10/06/18 10:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60485212.3 KEP O&M ACTIVITIES
Pace Project No.: 40177227

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40177227001	SUMP 6 IN	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	HNW	63	PASI-G
40177227002	SUMP 6 EFF	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	HNW	63	PASI-G
40177227003	SUMP 7 IN	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	HNW	63	PASI-G
40177227004	SUMP 17R IN	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	HNW	63	PASI-G
40177227005	SUMP 7/17R EFF	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	2	PASI-G
		EPA 8260	HNW	63	PASI-G
40177227006	TRIP BLANK	EPA 8260	HNW	63	PASI-G
40177227007	SUMP 18 IN	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	HNW	63	PASI-G
40177227008	SUMP 18 EFF	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	HNW	63	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40177227001	SUMP 6 IN					
WI MOD DRO	Diesel Range Organics	0.38	mg/L	0.049	10/15/18 09:12	DC
WI MOD GRO	Gasoline Range Organics	0.41	mg/L	0.12	10/08/18 14:50	G-
EPA 8260	1,1-Dichloroethane	7.8J	ug/L	10.0	10/09/18 23:45	
EPA 8260	1,1-Dichloroethene	2.7J	ug/L	10.0	10/09/18 23:45	
EPA 8260	cis-1,2-Dichloroethene	466	ug/L	10.0	10/09/18 23:45	
EPA 8260	trans-1,2-Dichloroethene	45.1	ug/L	36.4	10/09/18 23:45	
EPA 8260	Methylene Chloride	6.3J	ug/L	50.0	10/09/18 23:45	
EPA 8260	Trichloroethene	979	ug/L	10.0	10/09/18 23:45	
EPA 8260	Vinyl chloride	12.0	ug/L	10.0	10/09/18 23:45	
40177227002	SUMP 6 EFF					
WI MOD DRO	Diesel Range Organics	0.70	mg/L	0.051	10/15/18 09:21	DC
EPA 8260	cis-1,2-Dichloroethene	2.1	ug/L	1.0	10/09/18 22:38	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	10/09/18 22:38	
40177227003	SUMP 7 IN					
WI MOD DRO	Diesel Range Organics	2.0	mg/L	0.099	10/15/18 11:47	DC
EPA 8260	cis-1,2-Dichloroethene	5.6	ug/L	1.0	10/10/18 09:39	
EPA 8260	trans-1,2-Dichloroethene	1.4J	ug/L	3.6	10/10/18 09:39	
EPA 8260	Vinyl chloride	1.5	ug/L	1.0	10/10/18 09:39	
40177227004	SUMP 17R IN					
WI MOD DRO	Diesel Range Organics	2.2	mg/L	0.099	10/15/18 11:56	DC
WI MOD GRO	Gasoline Range Organics	0.038J	mg/L	0.12	10/10/18 16:01	
EPA 8260	1,1-Dichloroethane	3.2	ug/L	1.0	10/10/18 10:01	
EPA 8260	1,1-Dichloroethene	0.58J	ug/L	1.0	10/10/18 10:01	
EPA 8260	cis-1,2-Dichloroethene	137	ug/L	1.0	10/10/18 10:01	
EPA 8260	trans-1,2-Dichloroethene	5.5	ug/L	3.6	10/10/18 10:01	
EPA 8260	Trichloroethene	16.6	ug/L	1.0	10/10/18 10:01	
EPA 8260	Vinyl chloride	17.1	ug/L	1.0	10/10/18 10:01	
40177227005	SUMP 7/17R EFF					
WI MOD DRO	Diesel Range Organics	1.5	mg/L	0.049	10/15/18 09:48	DC
EPA 8260	cis-1,2-Dichloroethene	1.4	ug/L	1.0	10/09/18 23:01	
EPA 8260	Vinyl chloride	0.20J	ug/L	1.0	10/09/18 23:01	
40177227007	SUMP 18 IN					
WI MOD DRO	Diesel Range Organics	0.41	mg/L	0.052	10/15/18 09:58	DC
WI MOD GRO	Gasoline Range Organics	1.5	mg/L	0.24	10/10/18 16:52	G-
EPA 8260	Benzene	134	ug/L	10.0	10/10/18 10:24	
EPA 8260	Chloroethane	19.7J	ug/L	50.0	10/10/18 10:24	
EPA 8260	1,1-Dichloroethane	696	ug/L	10.0	10/10/18 10:24	
EPA 8260	1,1-Dichloroethene	3.2J	ug/L	10.0	10/10/18 10:24	
EPA 8260	cis-1,2-Dichloroethene	529	ug/L	10.0	10/10/18 10:24	
EPA 8260	trans-1,2-Dichloroethene	14.2J	ug/L	36.4	10/10/18 10:24	
EPA 8260	Ethylbenzene	34.4	ug/L	10.0	10/10/18 10:24	
EPA 8260	Methylene Chloride	8.7J	ug/L	50.0	10/10/18 10:24	
EPA 8260	Toluene	191	ug/L	50.0	10/10/18 10:24	
EPA 8260	1,1,1-Trichloroethane	169	ug/L	10.0	10/10/18 10:24	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40177227007	SUMP 18 IN					
EPA 8260	1,2,4-Trimethylbenzene	29.6	ug/L	28.0	10/10/18 10:24	
EPA 8260	Vinyl chloride	163	ug/L	10.0	10/10/18 10:24	
EPA 8260	Xylene (Total)	231	ug/L	30.0	10/10/18 10:24	
40177227008	SUMP 18 EFF					
WI MOD DRO	Diesel Range Organics	0.26	mg/L	0.049	10/15/18 10:07	DC
WI MOD GRO	Gasoline Range Organics	0.037J	mg/L	0.12	10/10/18 18:08	
EPA 8260	Benzene	2.8	ug/L	1.0	10/09/18 23:23	
EPA 8260	1,1-Dichloroethane	21.2	ug/L	1.0	10/09/18 23:23	
EPA 8260	cis-1,2-Dichloroethene	20.2	ug/L	1.0	10/09/18 23:23	
EPA 8260	Ethylbenzene	0.39J	ug/L	1.0	10/09/18 23:23	
EPA 8260	Naphthalene	2.2J	ug/L	5.0	10/09/18 23:23	
EPA 8260	Toluene	2.9J	ug/L	5.0	10/09/18 23:23	
EPA 8260	1,1,1-Trichloroethane	2.9	ug/L	1.0	10/09/18 23:23	
EPA 8260	Vinyl chloride	1.4	ug/L	1.0	10/09/18 23:23	
EPA 8260	Xylene (Total)	4.5	ug/L	3.0	10/09/18 23:23	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 6 IN **Lab ID: 40177227001** Collected: 10/05/18 08:55 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.38	mg/L	0.049	0.015	1	10/10/18 10:50	10/15/18 09:12		DC
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	0.41	mg/L	0.12	0.036	1		10/08/18 14:50		G-
8260 MSV Analytical Method: EPA 8260									
Benzene	<2.5	ug/L	10.0	2.5	10		10/09/18 23:45	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		10/09/18 23:45	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		10/09/18 23:45	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		10/09/18 23:45	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		10/09/18 23:45	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		10/09/18 23:45	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		10/09/18 23:45	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		10/09/18 23:45	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		10/09/18 23:45	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		10/09/18 23:45	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		10/09/18 23:45	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		10/09/18 23:45	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		10/09/18 23:45	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		10/09/18 23:45	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		10/09/18 23:45	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		10/09/18 23:45	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		10/09/18 23:45	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		10/09/18 23:45	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		10/09/18 23:45	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		10/09/18 23:45	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		10/09/18 23:45	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		10/09/18 23:45	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		10/09/18 23:45	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		10/09/18 23:45	75-71-8	
1,1-Dichloroethane	7.8J	ug/L	10.0	2.7	10		10/09/18 23:45	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		10/09/18 23:45	107-06-2	
1,1-Dichloroethene	2.7J	ug/L	10.0	2.4	10		10/09/18 23:45	75-35-4	
cis-1,2-Dichloroethene	466	ug/L	10.0	2.7	10		10/09/18 23:45	156-59-2	
trans-1,2-Dichloroethene	45.1	ug/L	36.4	10.9	10		10/09/18 23:45	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		10/09/18 23:45	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		10/09/18 23:45	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		10/09/18 23:45	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		10/09/18 23:45	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		10/09/18 23:45	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		10/09/18 23:45	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		10/09/18 23:45	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		10/09/18 23:45	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		10/09/18 23:45	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		10/09/18 23:45	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		10/09/18 23:45	99-87-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 6 IN **Lab ID: 40177227001** Collected: 10/05/18 08:55 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	6.3J	ug/L	50.0	5.8	10		10/09/18 23:45	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		10/09/18 23:45	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		10/09/18 23:45	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		10/09/18 23:45	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		10/09/18 23:45	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		10/09/18 23:45	630-20-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		10/09/18 23:45	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		10/09/18 23:45	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		10/09/18 23:45	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		10/09/18 23:45	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		10/09/18 23:45	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		10/09/18 23:45	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		10/09/18 23:45	79-00-5	
Trichloroethene	979	ug/L	10.0	2.6	10		10/09/18 23:45	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		10/09/18 23:45	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		10/09/18 23:45	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		10/09/18 23:45	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		10/09/18 23:45	108-67-8	
Vinyl chloride	12.0	ug/L	10.0	1.7	10		10/09/18 23:45	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		10/09/18 23:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		10		10/09/18 23:45	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		10		10/09/18 23:45	1868-53-7	
Toluene-d8 (S)	93	%	70-130		10		10/09/18 23:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 6 EFF **Lab ID: 40177227002** Collected: 10/05/18 09:15 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.70	mg/L	0.051	0.015	1	10/10/18 10:50	10/15/18 09:21		DC
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	<0.036	mg/L	0.12	0.036	1		10/08/18 10:34		
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		10/09/18 22:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/09/18 22:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/09/18 22:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/09/18 22:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/09/18 22:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/09/18 22:38	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 22:38	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/09/18 22:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/09/18 22:38	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/09/18 22:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 22:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/09/18 22:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/09/18 22:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/09/18 22:38	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/09/18 22:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/09/18 22:38	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/09/18 22:38	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/09/18 22:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/09/18 22:38	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/09/18 22:38	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 22:38	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/09/18 22:38	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/09/18 22:38	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/09/18 22:38	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 22:38	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 22:38	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/09/18 22:38	75-35-4	
cis-1,2-Dichloroethene	2.1	ug/L	1.0	0.27	1		10/09/18 22:38	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/09/18 22:38	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/09/18 22:38	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/09/18 22:38	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/09/18 22:38	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/09/18 22:38	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/09/18 22:38	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/09/18 22:38	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/09/18 22:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/09/18 22:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/09/18 22:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/09/18 22:38	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/09/18 22:38	99-87-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 6 EFF **Lab ID: 40177227002** Collected: 10/05/18 09:15 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/09/18 22:38	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/09/18 22:38	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/09/18 22:38	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/09/18 22:38	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/09/18 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 22:38	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 22:38	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/09/18 22:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		10/09/18 22:38	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/09/18 22:38	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/09/18 22:38	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/09/18 22:38	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/09/18 22:38	79-00-5	
Trichloroethene	1.8	ug/L	1.0	0.26	1		10/09/18 22:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/09/18 22:38	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/09/18 22:38	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/09/18 22:38	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/09/18 22:38	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/09/18 22:38	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/09/18 22:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/09/18 22:38	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/09/18 22:38	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		10/09/18 22:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 7 IN **Lab ID: 40177227003** Collected: 10/05/18 10:55 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	2.0	mg/L	0.099	0.030	2	10/10/18 10:50	10/15/18 11:47		DC
WIGRO GCV		Analytical Method: WI MOD GRO							
Gasoline Range Organics	<0.036	mg/L	0.12	0.036	1		10/10/18 11:02		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/10/18 09:39	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/10/18 09:39	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/10/18 09:39	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/10/18 09:39	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/10/18 09:39	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/10/18 09:39	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/10/18 09:39	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/10/18 09:39	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/10/18 09:39	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/10/18 09:39	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/10/18 09:39	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/10/18 09:39	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/10/18 09:39	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/10/18 09:39	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/10/18 09:39	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/10/18 09:39	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/10/18 09:39	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/10/18 09:39	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/10/18 09:39	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/10/18 09:39	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/10/18 09:39	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/10/18 09:39	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/10/18 09:39	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/10/18 09:39	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/10/18 09:39	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/10/18 09:39	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/10/18 09:39	75-35-4	
cis-1,2-Dichloroethene	5.6	ug/L	1.0	0.27	1		10/10/18 09:39	156-59-2	
trans-1,2-Dichloroethene	1.4J	ug/L	3.6	1.1	1		10/10/18 09:39	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/10/18 09:39	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/10/18 09:39	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/10/18 09:39	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/10/18 09:39	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/10/18 09:39	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/10/18 09:39	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/10/18 09:39	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/10/18 09:39	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/10/18 09:39	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/10/18 09:39	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/10/18 09:39	99-87-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 7 IN **Lab ID: 40177227003** Collected: 10/05/18 10:55 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/10/18 09:39	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/10/18 09:39	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/10/18 09:39	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/10/18 09:39	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/10/18 09:39	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/10/18 09:39	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/10/18 09:39	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/10/18 09:39	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		10/10/18 09:39	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/10/18 09:39	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/10/18 09:39	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/18 09:39	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/10/18 09:39	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/18 09:39	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/10/18 09:39	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/10/18 09:39	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/10/18 09:39	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/10/18 09:39	108-67-8	
Vinyl chloride	1.5	ug/L	1.0	0.17	1		10/10/18 09:39	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/10/18 09:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/10/18 09:39	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/10/18 09:39	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/10/18 09:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 17R IN **Lab ID: 40177227004** Collected: 10/05/18 11:10 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	2.2	mg/L	0.099	0.030	2	10/10/18 10:50	10/15/18 11:56		DC
WIGRO GCV		Analytical Method: WI MOD GRO							
Gasoline Range Organics	0.038J	mg/L	0.12	0.036	1		10/10/18 16:01		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/10/18 10:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/10/18 10:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/10/18 10:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/10/18 10:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/10/18 10:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/10/18 10:01	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/10/18 10:01	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/10/18 10:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/10/18 10:01	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/10/18 10:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/10/18 10:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/10/18 10:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/10/18 10:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/10/18 10:01	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/10/18 10:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/10/18 10:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/10/18 10:01	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/10/18 10:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/10/18 10:01	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/10/18 10:01	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/10/18 10:01	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/10/18 10:01	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/10/18 10:01	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/10/18 10:01	75-71-8	
1,1-Dichloroethane	3.2	ug/L	1.0	0.27	1		10/10/18 10:01	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/10/18 10:01	107-06-2	
1,1-Dichloroethene	0.58J	ug/L	1.0	0.24	1		10/10/18 10:01	75-35-4	
cis-1,2-Dichloroethene	137	ug/L	1.0	0.27	1		10/10/18 10:01	156-59-2	
trans-1,2-Dichloroethene	5.5	ug/L	3.6	1.1	1		10/10/18 10:01	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/10/18 10:01	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/10/18 10:01	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/10/18 10:01	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/10/18 10:01	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/10/18 10:01	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/10/18 10:01	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/10/18 10:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/10/18 10:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/10/18 10:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/10/18 10:01	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/10/18 10:01	99-87-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 17R IN **Lab ID: 40177227004** Collected: 10/05/18 11:10 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/10/18 10:01	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/10/18 10:01	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/10/18 10:01	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/10/18 10:01	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/10/18 10:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/10/18 10:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/10/18 10:01	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/10/18 10:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		10/10/18 10:01	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/10/18 10:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/10/18 10:01	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/18 10:01	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/10/18 10:01	79-00-5	
Trichloroethene	16.6	ug/L	1.0	0.26	1		10/10/18 10:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/10/18 10:01	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/10/18 10:01	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/10/18 10:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/10/18 10:01	108-67-8	
Vinyl chloride	17.1	ug/L	1.0	0.17	1		10/10/18 10:01	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/10/18 10:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/10/18 10:01	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/10/18 10:01	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/10/18 10:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 7/17R EFF **Lab ID: 40177227005** Collected: 10/05/18 11:30 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	1.5	mg/L	0.049	0.015	1	10/10/18 10:50	10/15/18 09:48		DC
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	<0.036	mg/L	0.12	0.036	1		10/10/18 11:28		
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/10/18 11:28	98-08-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		10/09/18 23:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/09/18 23:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/09/18 23:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/09/18 23:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/09/18 23:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/09/18 23:01	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 23:01	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/09/18 23:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/09/18 23:01	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/09/18 23:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 23:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/09/18 23:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/09/18 23:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/09/18 23:01	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/09/18 23:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/09/18 23:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/09/18 23:01	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/09/18 23:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/09/18 23:01	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/09/18 23:01	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 23:01	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/09/18 23:01	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/09/18 23:01	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/09/18 23:01	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 23:01	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 23:01	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/09/18 23:01	75-35-4	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.27	1		10/09/18 23:01	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/09/18 23:01	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/09/18 23:01	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/09/18 23:01	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/09/18 23:01	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/09/18 23:01	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/09/18 23:01	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/09/18 23:01	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/09/18 23:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/09/18 23:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/09/18 23:01	87-68-3	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 7/17R EFF **Lab ID: 40177227005** Collected: 10/05/18 11:30 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/09/18 23:01	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/09/18 23:01	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/09/18 23:01	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/09/18 23:01	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/09/18 23:01	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/09/18 23:01	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/09/18 23:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 23:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 23:01	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/09/18 23:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		10/09/18 23:01	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/09/18 23:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/09/18 23:01	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/09/18 23:01	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/09/18 23:01	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/18 23:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/09/18 23:01	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/09/18 23:01	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/09/18 23:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/09/18 23:01	108-67-8	
Vinyl chloride	0.20J	ug/L	1.0	0.17	1		10/09/18 23:01	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/09/18 23:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/09/18 23:01	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/09/18 23:01	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		10/09/18 23:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: TRIP BLANK **Lab ID: 40177227006** Collected: 10/05/18 08:30 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/09/18 18:31	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/09/18 18:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/09/18 18:31	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/09/18 18:31	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/09/18 18:31	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/09/18 18:31	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 18:31	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/09/18 18:31	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/09/18 18:31	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/09/18 18:31	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 18:31	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/09/18 18:31	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/09/18 18:31	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/09/18 18:31	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/09/18 18:31	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/09/18 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/09/18 18:31	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/09/18 18:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/09/18 18:31	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/09/18 18:31	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 18:31	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/09/18 18:31	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/09/18 18:31	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/09/18 18:31	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 18:31	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 18:31	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/09/18 18:31	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/09/18 18:31	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/09/18 18:31	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/09/18 18:31	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/09/18 18:31	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/09/18 18:31	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/09/18 18:31	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/09/18 18:31	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/09/18 18:31	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/09/18 18:31	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/09/18 18:31	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/09/18 18:31	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/09/18 18:31	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/09/18 18:31	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/09/18 18:31	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/09/18 18:31	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/09/18 18:31	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/09/18 18:31	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/09/18 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 18:31	630-20-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: TRIP BLANK **Lab ID: 40177227006** Collected: 10/05/18 08:30 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 18:31	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/09/18 18:31	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		10/09/18 18:31	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/09/18 18:31	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/09/18 18:31	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/09/18 18:31	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/09/18 18:31	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/18 18:31	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/09/18 18:31	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/09/18 18:31	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/09/18 18:31	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/09/18 18:31	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/09/18 18:31	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/09/18 18:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/09/18 18:31	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/09/18 18:31	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		10/09/18 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 18 IN **Lab ID: 40177227007** Collected: 10/05/18 10:05 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.41	mg/L	0.052	0.015	1	10/10/18 10:50	10/15/18 09:58		DC
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	1.5	mg/L	0.24	0.073	2		10/10/18 16:52		G-
8260 MSV Analytical Method: EPA 8260									
Benzene	134	ug/L	10.0	2.5	10		10/10/18 10:24	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		10/10/18 10:24	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		10/10/18 10:24	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		10/10/18 10:24	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		10/10/18 10:24	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		10/10/18 10:24	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		10/10/18 10:24	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		10/10/18 10:24	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		10/10/18 10:24	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		10/10/18 10:24	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		10/10/18 10:24	108-90-7	
Chloroethane	19.7J	ug/L	50.0	13.4	10		10/10/18 10:24	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		10/10/18 10:24	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		10/10/18 10:24	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		10/10/18 10:24	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		10/10/18 10:24	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		10/10/18 10:24	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		10/10/18 10:24	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		10/10/18 10:24	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		10/10/18 10:24	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		10/10/18 10:24	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		10/10/18 10:24	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		10/10/18 10:24	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		10/10/18 10:24	75-71-8	
1,1-Dichloroethane	696	ug/L	10.0	2.7	10		10/10/18 10:24	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		10/10/18 10:24	107-06-2	
1,1-Dichloroethene	3.2J	ug/L	10.0	2.4	10		10/10/18 10:24	75-35-4	
cis-1,2-Dichloroethene	529	ug/L	10.0	2.7	10		10/10/18 10:24	156-59-2	
trans-1,2-Dichloroethene	14.2J	ug/L	36.4	10.9	10		10/10/18 10:24	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		10/10/18 10:24	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		10/10/18 10:24	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		10/10/18 10:24	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		10/10/18 10:24	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		10/10/18 10:24	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		10/10/18 10:24	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		10/10/18 10:24	108-20-3	
Ethylbenzene	34.4	ug/L	10.0	2.2	10		10/10/18 10:24	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		10/10/18 10:24	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		10/10/18 10:24	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		10/10/18 10:24	99-87-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 18 IN **Lab ID: 40177227007** Collected: 10/05/18 10:05 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methylene Chloride	8.7J	ug/L	50.0	5.8	10		10/10/18 10:24	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		10/10/18 10:24	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		10/10/18 10:24	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		10/10/18 10:24	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		10/10/18 10:24	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		10/10/18 10:24	630-20-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		10/10/18 10:24	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		10/10/18 10:24	127-18-4	
Toluene	191	ug/L	50.0	1.7	10		10/10/18 10:24	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		10/10/18 10:24	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		10/10/18 10:24	120-82-1	
1,1,1-Trichloroethane	169	ug/L	10.0	2.4	10		10/10/18 10:24	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		10/10/18 10:24	79-00-5	
Trichloroethene	<2.6	ug/L	10.0	2.6	10		10/10/18 10:24	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		10/10/18 10:24	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		10/10/18 10:24	96-18-4	
1,2,4-Trimethylbenzene	29.6	ug/L	28.0	8.4	10		10/10/18 10:24	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		10/10/18 10:24	108-67-8	
Vinyl chloride	163	ug/L	10.0	1.7	10		10/10/18 10:24	75-01-4	
Xylene (Total)	231	ug/L	30.0	15.0	10		10/10/18 10:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		10		10/10/18 10:24	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		10/10/18 10:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		10		10/10/18 10:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 18 EFF **Lab ID: 40177227008** Collected: 10/05/18 10:15 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	0.26	mg/L	0.049	0.015	1	10/10/18 10:50	10/15/18 10:07		DC
WIGRO GCV		Analytical Method: WI MOD GRO							
Gasoline Range Organics	0.037J	mg/L	0.12	0.036	1		10/10/18 18:08		
8260 MSV		Analytical Method: EPA 8260							
Benzene	2.8	ug/L	1.0	0.25	1		10/09/18 23:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/09/18 23:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/09/18 23:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/09/18 23:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/09/18 23:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/09/18 23:23	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 23:23	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/09/18 23:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/09/18 23:23	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/09/18 23:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 23:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/09/18 23:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/09/18 23:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/09/18 23:23	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/09/18 23:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/09/18 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/09/18 23:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/09/18 23:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/09/18 23:23	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/09/18 23:23	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/09/18 23:23	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/09/18 23:23	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/09/18 23:23	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/09/18 23:23	75-71-8	
1,1-Dichloroethane	21.2	ug/L	1.0	0.27	1		10/09/18 23:23	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 23:23	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/09/18 23:23	75-35-4	
cis-1,2-Dichloroethene	20.2	ug/L	1.0	0.27	1		10/09/18 23:23	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/09/18 23:23	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/09/18 23:23	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/09/18 23:23	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/09/18 23:23	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/09/18 23:23	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/09/18 23:23	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/09/18 23:23	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/09/18 23:23	108-20-3	
Ethylbenzene	0.39J	ug/L	1.0	0.22	1		10/09/18 23:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/09/18 23:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/09/18 23:23	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/09/18 23:23	99-87-6	

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ANALYTICAL RESULTS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Sample: SUMP 18 EFF **Lab ID: 40177227008** Collected: 10/05/18 10:15 Received: 10/06/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/09/18 23:23	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/09/18 23:23	1634-04-4	
Naphthalene	2.2J	ug/L	5.0	1.2	1		10/09/18 23:23	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/09/18 23:23	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/09/18 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/09/18 23:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/09/18 23:23	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/09/18 23:23	127-18-4	
Toluene	2.9J	ug/L	5.0	0.17	1		10/09/18 23:23	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/09/18 23:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/09/18 23:23	120-82-1	
1,1,1-Trichloroethane	2.9	ug/L	1.0	0.24	1		10/09/18 23:23	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/09/18 23:23	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/09/18 23:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/09/18 23:23	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/09/18 23:23	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/09/18 23:23	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/09/18 23:23	108-67-8	
Vinyl chloride	1.4	ug/L	1.0	0.17	1		10/09/18 23:23	75-01-4	
Xylene (Total)	4.5	ug/L	3.0	1.5	1		10/09/18 23:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/09/18 23:23	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/09/18 23:23	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		10/09/18 23:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

QC Batch: 302392

Analysis Method: WI MOD GRO

QC Batch Method: WI MOD GRO

Analysis Description: WIGRO GCV Water

Associated Lab Samples: 40177227001, 40177227002

METHOD BLANK: 1766760

Matrix: Water

Associated Lab Samples: 40177227001, 40177227002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	<0.036	0.12	10/08/18 08:01	
a,a,a-Trifluorotoluene (S)	%	99	80-120	10/08/18 08:01	

LABORATORY CONTROL SAMPLE & LCSD: 1766761

1766762

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/L	.2	0.20	0.20	102	101	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1766973

1766974

Parameter	Units	40177035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						97	96	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

QC Batch: 302692 Analysis Method: WI MOD GRO
 QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
 Associated Lab Samples: 40177227003, 40177227004, 40177227005, 40177227007, 40177227008

METHOD BLANK: 1768057 Matrix: Water
 Associated Lab Samples: 40177227003, 40177227004, 40177227005, 40177227007, 40177227008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	<0.036	0.12	10/10/18 09:45	
a,a,a-Trifluorotoluene (S)	%	100	80-120	10/10/18 09:45	

LABORATORY CONTROL SAMPLE & LCSD: 1768058 1768059

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/L	.2	0.20	0.19	98	94	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				101	103	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1768386 1768387

Parameter	Units	40177227005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						102	101	80-120			

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

QC Batch: 302413 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40177227001, 40177227002, 40177227003, 40177227004, 40177227005, 40177227006, 40177227007, 40177227008

METHOD BLANK: 1766834 Matrix: Water
Associated Lab Samples: 40177227001, 40177227002, 40177227003, 40177227004, 40177227005, 40177227006, 40177227007, 40177227008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/09/18 16:17	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/09/18 16:17	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/09/18 16:17	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/09/18 16:17	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/09/18 16:17	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/09/18 16:17	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/09/18 16:17	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/09/18 16:17	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/09/18 16:17	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/09/18 16:17	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/09/18 16:17	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/09/18 16:17	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/09/18 16:17	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/09/18 16:17	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/09/18 16:17	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/09/18 16:17	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/09/18 16:17	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/09/18 16:17	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/09/18 16:17	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/09/18 16:17	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/09/18 16:17	
2-Chlorotoluene	ug/L	<0.93	5.0	10/09/18 16:17	
4-Chlorotoluene	ug/L	<0.76	2.5	10/09/18 16:17	
Benzene	ug/L	<0.25	1.0	10/09/18 16:17	
Bromobenzene	ug/L	<0.24	1.0	10/09/18 16:17	
Bromochloromethane	ug/L	<0.36	5.0	10/09/18 16:17	
Bromodichloromethane	ug/L	<0.36	1.2	10/09/18 16:17	
Bromoform	ug/L	<4.0	13.2	10/09/18 16:17	
Bromomethane	ug/L	<0.97	5.0	10/09/18 16:17	
Carbon tetrachloride	ug/L	<0.17	1.0	10/09/18 16:17	
Chlorobenzene	ug/L	<0.71	2.4	10/09/18 16:17	
Chloroethane	ug/L	<1.3	5.0	10/09/18 16:17	
Chloroform	ug/L	<1.3	5.0	10/09/18 16:17	
Chloromethane	ug/L	<2.2	7.3	10/09/18 16:17	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/09/18 16:17	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/09/18 16:17	
Dibromochloromethane	ug/L	<2.6	8.7	10/09/18 16:17	
Dibromomethane	ug/L	<0.94	3.1	10/09/18 16:17	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/09/18 16:17	
Diisopropyl ether	ug/L	<1.9	6.3	10/09/18 16:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES
Pace Project No.: 40177227

METHOD BLANK: 1766834

Matrix: Water

Associated Lab Samples: 40177227001, 40177227002, 40177227003, 40177227004, 40177227005, 40177227006, 40177227007, 40177227008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	10/09/18 16:17	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/09/18 16:17	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/09/18 16:17	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/09/18 16:17	
Methylene Chloride	ug/L	<0.58	5.0	10/09/18 16:17	
n-Butylbenzene	ug/L	<0.71	2.4	10/09/18 16:17	
n-Propylbenzene	ug/L	<0.81	5.0	10/09/18 16:17	
Naphthalene	ug/L	<1.2	5.0	10/09/18 16:17	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/09/18 16:17	
sec-Butylbenzene	ug/L	<0.85	5.0	10/09/18 16:17	
Styrene	ug/L	<0.47	1.6	10/09/18 16:17	
tert-Butylbenzene	ug/L	<0.30	1.0	10/09/18 16:17	
Tetrachloroethene	ug/L	<0.33	1.1	10/09/18 16:17	
Toluene	ug/L	<0.17	5.0	10/09/18 16:17	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/09/18 16:17	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/09/18 16:17	
Trichloroethene	ug/L	<0.26	1.0	10/09/18 16:17	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/09/18 16:17	
Vinyl chloride	ug/L	<0.17	1.0	10/09/18 16:17	
Xylene (Total)	ug/L	<1.5	3.0	10/09/18 16:17	
4-Bromofluorobenzene (S)	%	95	70-130	10/09/18 16:17	
Dibromofluoromethane (S)	%	105	70-130	10/09/18 16:17	
Toluene-d8 (S)	%	94	70-130	10/09/18 16:17	

LABORATORY CONTROL SAMPLE: 1766835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.6	119	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	67-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	56.5	113	70-134	
1,1-Dichloroethene	ug/L	50	54.3	109	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	70-130	
1,2-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,2-Dichloroethane	ug/L	50	57.6	115	73-134	
1,2-Dichloropropane	ug/L	50	53.1	106	79-128	
1,3-Dichlorobenzene	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	48.1	96	70-130	
Benzene	ug/L	50	55.9	112	69-137	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	53.2	106	64-133	

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

LABORATORY CONTROL SAMPLE: 1766835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	38.1	76	29-123	
Carbon tetrachloride	ug/L	50	59.4	119	73-142	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	49.1	98	59-133	
Chloroform	ug/L	50	53.4	107	80-129	
Chloromethane	ug/L	50	43.3	87	27-125	
cis-1,2-Dichloroethene	ug/L	50	55.6	111	70-134	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	12-127	
Ethylbenzene	ug/L	50	53.2	106	86-127	
Isopropylbenzene (Cumene)	ug/L	50	55.3	111	70-130	
Methyl-tert-butyl ether	ug/L	50	53.3	107	65-136	
Methylene Chloride	ug/L	50	50.6	101	72-133	
Styrene	ug/L	50	55.7	111	70-130	
Tetrachloroethene	ug/L	50	53.3	107	70-130	
Toluene	ug/L	50	51.1	102	84-124	
trans-1,2-Dichloroethene	ug/L	50	55.3	111	70-133	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	67-130	
Trichloroethene	ug/L	50	56.0	112	70-130	
Trichlorofluoromethane	ug/L	50	58.9	118	69-147	
Vinyl chloride	ug/L	50	49.5	99	48-134	
Xylene (Total)	ug/L	150	162	108	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1767056 1767057

Parameter	Units	40177171002		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	58.3	58.2	117	116	70-136	0	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	48.6	48.8	97	98	67-133	0	20			
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.2	49.1	98	98	70-130	0	20			
1,1-Dichloroethane	ug/L	<0.27	50	50	55.3	56.7	111	113	70-139	3	20			
1,1-Dichloroethene	ug/L	<0.24	50	50	54.2	54.9	108	110	72-137	1	20			
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.7	48.1	95	96	68-130	1	20			
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	47.3	47.3	95	95	60-130	0	21			
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	51.0	51.0	102	102	70-130	0	20			
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.8	48.3	96	97	70-130	1	20			
1,2-Dichloroethane	ug/L	<0.28	50	50	56.8	56.5	114	113	71-137	1	20			
1,2-Dichloropropane	ug/L	<0.28	50	50	52.8	52.7	106	105	78-130	0	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	47.0	47.3	94	95	70-130	1	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	47.0	47.6	94	95	70-130	1	20			

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

Parameter	Units	40177171002		1767056		1767057		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/L	<0.25	50	50	55.1	55.0	110	110	66-143	0	20		
Bromodichloromethane	ug/L	<0.36	50	50	55.2	54.7	110	109	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	53.2	53.5	106	107	64-134	1	20		
Bromomethane	ug/L	<0.97	50	50	42.9	46.4	86	93	29-136	8	25		
Carbon tetrachloride	ug/L	<0.17	50	50	59.0	59.5	118	119	73-142	1	20		
Chlorobenzene	ug/L	<0.71	50	50	50.0	50.9	100	102	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	50.1	49.4	100	99	58-138	1	20		
Chloroform	ug/L	<1.3	50	50	52.1	53.2	104	106	80-131	2	20		
Chloromethane	ug/L	<2.2	50	50	44.9	44.8	90	90	24-125	0	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	54.3	55.4	109	111	68-137	2	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	53.6	52.7	107	105	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.4	51.4	103	103	70-131	0	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	42.8	42.4	86	85	10-127	1	20		
Ethylbenzene	ug/L	<0.22	50	50	52.9	52.9	106	106	81-136	0	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	54.7	54.8	109	110	70-132	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	52.7	52.6	105	105	58-142	0	23		
Methylene Chloride	ug/L	<0.58	50	50	51.0	51.0	102	102	69-137	0	20		
Styrene	ug/L	<0.47	50	50	54.4	55.2	109	110	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	52.4	52.3	105	105	70-132	0	20		
Toluene	ug/L	<0.17	50	50	50.4	50.4	101	101	81-130	0	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	55.0	54.7	110	109	70-136	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.5	46.2	93	92	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	55.5	55.3	111	111	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	58.1	58.9	116	118	66-150	1	20		
Vinyl chloride	ug/L	<0.17	50	50	50.6	51.5	101	103	46-134	2	20		
Xylene (Total)	ug/L	<1.5	150	150	160	164	107	109	70-134	2	20		
4-Bromofluorobenzene (S)	%						105	106	70-130				
Dibromofluoromethane (S)	%						106	106	70-130				
Toluene-d8 (S)	%						93	94	70-130				

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QUALITY CONTROL DATA

Project: 60485212.3 KEP O&M ACTIVITIES
Pace Project No.: 40177227

QC Batch: 302702 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40177227001, 40177227002, 40177227003, 40177227004, 40177227005, 40177227007, 40177227008

METHOD BLANK: 1768091 Matrix: Water
Associated Lab Samples: 40177227001, 40177227002, 40177227003, 40177227004, 40177227005, 40177227007, 40177227008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/L	<0.015	0.052	10/15/18 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 1768092 1768093

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/L	1	0.96	1.0	96	100	75-115	4	20	

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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QUALIFIERS

Project: 60485212.3 KEP O&M ACTIVITIES

Pace Project No.: 40177227

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

DC Chromatographic pattern inconsistent with typical Diesel Fuel.

G- Early peaks present outside the GRO window.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60485212.3 KEP O&M ACTIVITIES
Pace Project No.: 40177227

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177227001	SUMP 6 IN	WI MOD DRO	302702	WI MOD DRO	302824
40177227002	SUMP 6 EFF	WI MOD DRO	302702	WI MOD DRO	302824
40177227003	SUMP 7 IN	WI MOD DRO	302702	WI MOD DRO	302824
40177227004	SUMP 17R IN	WI MOD DRO	302702	WI MOD DRO	302824
40177227005	SUMP 7/17R EFF	WI MOD DRO	302702	WI MOD DRO	302824
40177227007	SUMP 18 IN	WI MOD DRO	302702	WI MOD DRO	302824
40177227008	SUMP 18 EFF	WI MOD DRO	302702	WI MOD DRO	302824
40177227001	SUMP 6 IN	WI MOD GRO	302392		
40177227002	SUMP 6 EFF	WI MOD GRO	302392		
40177227003	SUMP 7 IN	WI MOD GRO	302692		
40177227004	SUMP 17R IN	WI MOD GRO	302692		
40177227005	SUMP 7/17R EFF	WI MOD GRO	302692		
40177227007	SUMP 18 IN	WI MOD GRO	302692		
40177227008	SUMP 18 EFF	WI MOD GRO	302692		
40177227001	SUMP 6 IN	EPA 8260	302413		
40177227002	SUMP 6 EFF	EPA 8260	302413		
40177227003	SUMP 7 IN	EPA 8260	302413		
40177227004	SUMP 17R IN	EPA 8260	302413		
40177227005	SUMP 7/17R EFF	EPA 8260	302413		
40177227006	TRIP BLANK	EPA 8260	302413		
40177227007	SUMP 18 IN	EPA 8260	302413		
40177227008	SUMP 18 EFF	EPA 8260	302413		

REPORT OF LABORATORY ANALYSIS

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401722

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: AECOM - Milw		Report To: Lanette Altenbach		Attention: Accounts Payable/Finance Department	
Address: 1555 N. River Center Dr., Suite 214		Copy To:		Company Name: City of Kenosha	
Milwaukee, WI 53212				Address: 652 52nd St., Kenosha, WI 53140	
Email To: Lanette.Altenbach@aecom.com		Purchase Order No.:		Pace Quote Reference:	
Phone: 414-577-1363 Fax:		Project Name: KEP O&M Activities		Pace Project Manager: Chris Hyska	
Requested Due Date/TAT: Standard		Project Number: 60485212.3		Pace Profile #: (2430) Kenosha work	

Page: 1 of 1

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input checked="" type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA
<input type="checkbox"/> DRINKING WATER	
<input type="checkbox"/> OTHER	
SITE	
<input type="checkbox"/> GA	<input type="checkbox"/> IL
<input type="checkbox"/> IN	<input type="checkbox"/> MI
<input type="checkbox"/> NC	
LOCATION	
<input type="checkbox"/> OH	<input type="checkbox"/> SC
<input checked="" type="checkbox"/> WI	<input type="checkbox"/> OTHER

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SK OIL OL WIPE WP AIR AR OTHER OT TISSUE IS	MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Ant					Pace Project Number Lab I.D.	
					DATE		TIME				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other	VOCs 8260	GRD by MICRO	DRO by MIDRO	Residual Chlorine (Y/N)		
					DATE	TIME	DATE	TIME																
1	SUMP 6 IN		WT	G				10/5/18	0855	8														001
2	SUMP 6 EFF		WT	G				10/5/18	0915	8														002
3	SUMP 7 IN		WT	G				10/5/18	1055	8														003
4	SUMP 17R IN		WT	G				10/5/18	1110	8														004
5	SUMP 7/17R EFF		WT	G				10/5/18	1130	8														005
6	Trip Blank		WT	G				10/5/18	0830	2														006
7	SUMP 18 IN		WT	G				10/5/18	1005	8														007
8	SUMP 18 EFF		WT	G				10/5/18	1015	8														008
9			WT																					009
10			WT																					010
11			WT																					011
12			WT																					012

Additional Comments:
Analysis Per Contract
KEP Semi-Annual System
Sampling.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Zach Albert / AECOM	10/5/18	1600				Y/N	Y/N	Y/N	Y/N
FEDIX	10/6/18	1010	Stacie Albert	10/6/18	1010	Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER	ZACH ALBERT / STACIE ALBERT		
SIGNATURE of SAMPLER	[Signature]		
DATE Signed (MM/DD/YY)	10/05/18		
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

Sample Preservation Receipt Form

Client Name: AGCOM

Project # 40177227

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN	
001	2																6																	2.5 / 5 / 10
002	2																6																	2.5 / 5 / 10
003	2																6																	2.5 / 5 / 10
004	2																6																	2.5 / 5 / 10
005	2																6																	2.5 / 5 / 10
006																	2																	2.5 / 5 / 10
007	2																6																	2.5 / 5 / 10
008	2																6																	2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, W/DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: Aecom

WO#: **40177227**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 7831 1066 3320, 7831 1066 3331

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR 117 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 601 / Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 10/6/18
Initials: JL

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>2107</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 10/8/18