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January 25, 2018

Mr. Paul Grittner
Wisconsin Department of Natural Resources
101 S. Webster Street
Post Office Box 7921
Madison Wisconsin 53707-7921

Via Email: paul.grittner@wisconsin.gov

Reference: *Status Update*
Mid-America Steel Drum Company Inc/Kitzinger
2529 E Norwich Avenue, St. Francis, WI
WDNR FID #241063570; BRRTS # 02-41-560089

KEY ENGINEERING GROUP, LTD.
File No. 1703-0866

Dear Mr. Grittner:

Key Engineering Group, Ltd (KEY) submits this *Status Update* date on behalf of Mid-America Steel Drum (MASD) for its site located at 2529 E. Norwich Avenue in St. Francis, Wisconsin (site, or subject property). Figure 1 presents the site location map. Soil and groundwater samples were collected on- and off-site to evaluate the extent of hydrocarbon impacts in general accordance with work plans submitted to the Wisconsin Department of Natural Resources (WDNR). Although a significant amount of information has been gathered, additional sampling and testing is necessary to complete the site investigation.

Recent Activity

On November 21, 2017, soil samples were collected at the site using double-cased direct-push methods at the location of a test boring, water table observation wells, and piezometers proposed at the site. Figure 2 depicts a plan view of the site and Attachment 1 contains the soil boring logs. A summary of the soil sampling analytical results is presented on Table 1 and illustrated on Figure 3. The recent soil sample laboratory report is included as Attachment 2.

On November 27, 2017 water table observation wells KMW-4, KMW-5, and KMW-6, and piezometers KPZ-1 and KPZ-2 were installed at the site. KPZ-1 is nested with KMW-4 and KPZ-2 is nested with KMW-5 to evaluate vertical gradients and the vertical extent of hydrocarbon impacts.

On December 8, 2017, groundwater samples were collected from the on-site monitoring wells and piezometers, and select monitoring wells located off-site. The top of casing elevations were surveyed to a USGS datum and a scale drawing of the site was prepared (Figure 2). Depth to groundwater measurements were collected as part of the groundwater sampling event and Table 2 is a summary of groundwater elevations calculated from depth to groundwater measurements collected during groundwater sampling. Figure 4 is an interpretation of the shallow groundwater elevations at and adjacent to the site. Figure 5 is a groundwater elevation contour for the groundwater elevations obtained from the piezometers.

Groundwater samples were collected using low-flow groundwater sampling methods. Temperature, pH, conductivity, dissolved oxygen (DO), reduction-oxidation potential (redox), and turbidity measurements (geochemical indicator parameters) were collected while slowly pumping water from the well. When the geochemical indicator parameters stabilized, a groundwater sample was collected for laboratory analysis. Groundwater monitoring that includes geochemical indicator parameter measurements can provide an indication of whether natural attenuation is occurring at the site. Table 3 is a summary of the geochemical indicator parameters.

Results and Observations

Soil samples collected using double-cased direct-push sampling methods consist predominantly of stiff clay with low plasticity. The piezometers did not reveal a confined, sandy layer that was observed at approximately 18 feet bgs at MW-14, 10 feet bgs at MW-15, and 34 feet bgs at SPM-4. The well screen at GP17-1/KPZ-1 was set to intersect an interval exhibiting a color change from brown to light gray at 31 feet bgs and an interval containing a trace of sand at approximately 35 feet bgs. A sandy interval was not observed during advancing boring GP17-2/KPZ-2 and the screen was set in anticipation of a steep gradient in the clay soil.

Light non-aqueous phase liquid (LNAPL, or free product) was observed on the water column in MW-2 (off-site to the north) and MW-15 (off-site to the northwest). Chlorinated hydrocarbons tend to have a specific gravity greater than 1 and would not occur as LNAPL floating on a water column in a monitoring well. The source or sources of LNAPL in wells adjacent to the subject property is not known, however, LNAPL does not typically migrate a significant distance from the source.

The summary of soil sampling analytical results on Table 3 and the illustration of soil sampling results on Figure 3 suggest chlorinated hydrocarbons are detected on site that exceed WAC Chapter NR 720 RCLs. The extent of soil impacts that exceed NR 720 RCLs for industrial direct contact and/or groundwater pathway extend from the northwest corner of the site south to the vicinity of GP17-1/KMW-4/KPZ-1, and east to KMW-1, and to the south east to KGP-3. The source of the chlorinated hydrocarbon impacts is under evaluation.

Groundwater elevation contour maps for the December 2017 groundwater sampling event are attached. The apparent gradient of shallow groundwater, appears to slope toward the northwest, with a localized mound in the water table near SMW-4. Deep groundwater elevation contours suggest flow toward the southeast. Groundwater elevations and apparent gradients will be evaluated to determine whether a predominant flow direction can be ascertained.

Groundwater sampling results are summarized on Table 4 and illustrated on Figure 6 and Figure 7. A comparison of shallow groundwater sampling analytical results between July 2013 and December 2017 appears to depict an increasing trend at off-site monitoring well MW-8. Shallow wells SMW-4 and MW-14 appear to present stable trends in dissolved-phase hydrocarbons between July 2013 and December 2017. Groundwater sample analytical results for samples collected from piezometer SPM-4 appear to exhibit a significant decrease in hydrocarbon concentration between July 2013 and December 2017.

Recommended Activity

Key recommends additional work be completed to conform with Wisconsin Administrative Code Chapter NR 716. Currently, proposed tasks include, but are not limited to the following:

- preparing geological cross sections of the site,
- continuing groundwater monitoring,
- hydraulic conductivity testing,
- locate and attempt to quantify hydraulic connections and estimate groundwater flow,
- identifying the source(s) of soil and groundwater impacts at the subject property,
- evaluation of vapor intrusion into on-site buildings,
- evaluation of exposure pathways and risk of exposure to impacted media,
- evaluation of applicable remedial action options, and
- continued status update reports, culminating in a Site Investigation Report for WDNR review.

Quarterly groundwater monitoring of select groundwater monitoring wells and piezometers will continue. Groundwater sampling will occur using low-flow sampling techniques and geochemical indicator parameters will be tabulated. Future depth to groundwater measurements will be tabulated and groundwater elevations will be contoured to evaluate groundwater flow direction.

Hydraulic conductivity testing will be completed to allow an estimated groundwater flow rate to be determined. Key proposes to conduct falling-head slug testing at a minimum of 8 wells. Each of the on-site piezometers (SMP-4, KPZ-1, and KPZ-2) and select water table observation wells (SMW-4, KMW-2, KMW-4, MW-7, and MW-8) will be tested. The hydraulic conductivity tests will be evaluated and the groundwater flow rate will be estimated.

The vapor intrusion pathway will be considered during the site investigation activity. As stated in Publication RR-800 *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin*, if source soil for chlorinated VOCs is encountered within 100 feet of a building, or if groundwater impacts that exceed the Wisconsin Administrative Code Chapter NR 140 Enforcement Standard are present beneath a building, the vapor intrusion pathway must be investigated.

Remedial action options will be continually evaluated on a preliminary basis. Natural attenuation will be considered as a remedy to address residual hydrocarbon impacts to groundwater. Current WDNR guidance recommends eight consecutive quarters of groundwater monitoring to demonstrate stable or decreasing trends in groundwater impact.

Monitoring wells SMW-3 and KMW-1 could not be located. Past analysis of groundwater samples collected from SMW-3 suggest SMW-3 is located within the dissolved-phase groundwater plume. This

monitoring well would provide useful information on groundwater impact over time. Past analysis of a groundwater sample collected from KMW-1 yielded a trace detection of cis-1,2-dichloroethene, suggesting the screened interval is located near a plume boundary. Additional efforts to locate these wells will be enacted when the ground thaws.

The next groundwater sampling event is proposed to occur in March 2018. A status update containing updated tables and figures will be submitted to WDNR in April 2018.

If you have any additional questions, please do not hesitate to call Kurt McClung at 414 225-0592, or Ken Wein at 414 978-4841.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Kurt McClung, PG, PE
Senior Engineer



Ken Wein, CHMM
Principal

cc: Mike Higgins, Mid-America Steel Drum Company

Enclosures: Table 1 Soil Sampling Analytical Results
Table 2 Groundwater Elevation Summary
Table 3 Geochemical Indicator Parameter Measurements
Table 4 Groundwater Sampling Analytical Results

Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Soil Sampling Analytical Results Summary
Figure 4 Shallow Groundwater Elevation Contour Map- 12/8/2017
Figure 5 Deep Groundwater Elevation Contour Map- 12/8/2017
Figure 6 Shallow Groundwater Sampling Analytical Results Map
Figure 7 Deep Groundwater Sampling Analytical Results Map

Attachment 1 Soil Boring Logs and Monitoring Well Construction Forms
Attachment 2 Soil Sample Laboratory Report
Attachment 3 Groundwater Sample Laboratory Report

Tables

TABLE 1
Soil Sampling Analytical Results
Former Kitzinger Site
2529 East Norwich Avenue, St. Francis, Wisconsin
BRRS 02-41-560089 and 03-41-196554

	Date Collected	Depth (feet bgs)	Benzene	1,1-DCA	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m&p-Xylene	o-Xylene
NR 720 RCL for Industrial Direct Contact			7.07	22.2	2,340	35.4	1,150	24.1	145	818	640	8.41	219	182	2.08	260	
NR 720 RCL for Groundwater Pathway			0.0051	0.4834	0.0412	1.57	0.0026	0.6582	0.0045	1.1072	0.1402	0.0036	1.3821		0.0001	3.96	
KGP-1	6/28/2013	2-4	<0.025	0.0805	0.0877	<0.025	<0.025	<0.025	0.655	<0.025	0.193	2.34	<0.025	<0.025	<0.025	<0.050	<0.025
KGP-2	6/28/2013	2-4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
KGP-3	6/28/2013	2-4	<0.025	<0.025	0.204	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0359J	<0.025	<0.025	<0.025	<0.050	<0.025
KMW-1	6/28/2013	2-4	<0.025	<0.025	0.0585J	<0.025	<0.025	<0.025	0.0589J	<0.025	<0.025	0.0493J	<0.025	<0.025	<0.025	<0.050	<0.025
KMW-2	6/28/2013	2-4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
KMW-3	6/28/2013	2-4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
GP17-1	11/21/2017	2-4	<0.025	<0.025	<0.025	<0.025	0.046J	<0.040	0.34	<0.025	0.047J	0.68	<0.025	<0.025	<0.025	<0.050	<0.025
		35.5-36	<0.025	<0.025	<0.025	<0.025	0.041J	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
GP17-2	11/21/2017	2-4	<0.025	<0.025	<0.025	<0.025	0.038J	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
		24-26	<0.025	<0.025	<0.025	<0.025	0.033J	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
		40-42	<0.025	<0.025	<0.025	<0.025	0.031J	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
GP17-3	11/21/2017	2-4	<0.025	<0.025	<0.025	<0.025	0.034J	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
		14-16	<0.025	<0.025	<0.025	<0.025	0.039J	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025
GP17-4	11/21/2017	0-2	<0.025	<0.025	<0.025	<0.025	0.035J	<0.040	<0.025	<0.025	<0.025	0.045J	<0.025	<0.025	<0.025	<0.050	<0.025
		4-6	<0.025	<0.025	<0.025	<0.025	0.038J	<0.040	<0.025	<0.025	<0.025	0.40	<0.025	<0.025	<0.025	<0.050	<0.025

Notes

All results are expressed in milligrams per kilogram (mg/kg), equivalent to parts per million (ppm).
Results presented in *italic* type exceed the NR 720 RCL for Industrial Direct Contact (applicable to 0 to 4 feet)
Results presented in **bold** type exceed the NR 720 RCL for Groundwater Pathway
All detections in soil are presented. VOCs detected in groundwater that have an NR 720 Groundwater Pathway RCL are also presented.
J - Results between the limit of detection and limit of quantitation
bgs - below ground surface
NS - No Standard
DCA - Dichloroethane
DCE - Dichloroethene
MTBE - Methyl tertiary Butyl Ether
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
TMB - Trimethylbenzenes
VOCs - volatile organic compounds
NR 720 RCL - Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Level (March 2017)

TABLE 3
Groundwater Elevation Summary
 Former Kitzinger Site
 2529 East Norwich Avenue, St. Francis, Wisconsin
 BRRTS 02-41-560089 and 03-41-196554

MW-2					Shallow Stick-up
Date Installed					
Ground Elevation					668.88
Top of Casing Elevation					668.65
Top of Screen Elevation					649.45
Bottom of Screen Elevation					639.45
Date	Depth To Water	Depth to Product	Product Thickness	Un-Corrected Groundwater Elevation	Comments
12/8/2017	14.30	13.87	0.43	654.35	

MW-3				Shallow Flushmount
Date Installed				
Ground Elevation				659.24
Top of Casing Elevation				658.66
Top of Screen Elevation				654.06
Bottom of Screen Elevation				644.06
Date	Depth To Water	Groundwater Elevation	Comments	
12/8/2017	5.38	653.28		

MW-4				Shallow Flushmount
Date Installed				
Ground Elevation				661.28
Top of Casing Elevation				660.74
Top of Screen Elevation				
Bottom of Screen Elevation				
Date	Depth To Water	Groundwater Elevation	Comments	
12/8/2017	NM			

MW-5				Shallow Flushmount
Date Installed				
Ground Elevation				662.64
Top of Casing Elevation				662.03
Top of Screen Elevation				658.40
Bottom of Screen Elevation				648.40
Date	Depth To Water	Groundwater Elevation	Comments	
12/8/2017	9.20	652.83		

MW-7				Shallow Flushmount
Date Installed				
Ground Elevation				659.06
Top of Casing Elevation				659.12
Top of Screen Elevation				643.67
Bottom of Screen Elevation				633.67
Date	Depth To Water	Groundwater Elevation	Comments	
12/8/2017	8.16	650.96		

MW-8				Shallow Stick-up
Date Installed				
Ground Elevation				662.04
Top of Casing Elevation				661.79
Top of Screen Elevation				635.09
Bottom of Screen Elevation				630.09
Date	Depth To Water	Groundwater Elevation	Comments	
12/8/2017	12.55	649.24	Unsure if depth was from MW-8.	

MW-14				Shallow Flushmount
Date Installed				
Ground Elevation				667.19
Top of Casing Elevation				666.73
Top of Screen Elevation				661.68
Bottom of Screen Elevation				651.68
Date	Depth To Water	Groundwater Elevation	Comments	
12/8/2017	14.00	652.73		

MW-15					Shallow Flushmount
Date Installed					
Ground Elevation					665.57
Top of Casing Elevation					664.96
Top of Screen Elevation					659.96
Bottom of Screen Elevation					649.96
Date	Depth To Water	Depth to Product	Product Thickness	Un-Corrected Groundwater Elevation	Comments
12/8/2017	10.80			654.16	could not measure LNAPL thickness

TABLE 3
Groundwater Elevation Summary
 Former Kitzinger Site
 2529 East Norwich Avenue, St. Francis, Wisconsin
 BRRTS 02-41-560089 and 03-41-196554

SMW-4 Shallow Flushmount			
Date Installed			
Ground Elevation		667.88	
Top of Casing Elevation		667.23	
Top of Screen Elevation		659.43	
Bottom of Screen Elevation		649.43	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	6.30	660.93	

SPM-4 Deep Flushmount			
Date Installed			
Ground Elevation		667.86	
Top of Casing Elevation		667.53	
Top of Screen Elevation		643.23	
Bottom of Screen Elevation		633.23	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	14.05	653.48	

KMW-2 Shallow Flushmount			
Date Installed			
Ground Elevation		678.01	
Top of Casing Elevation		677.65	
Top of Screen Elevation			
Bottom of Screen Elevation		662.55	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	2.58	675.07	

KMW-3 Shallow Flushmount			
Date Installed			
Ground Elevation		678.25	
Top of Casing Elevation		677.83	
Top of Screen Elevation			
Bottom of Screen Elevation		662.73	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	4.63	673.20	

KMW-4 Shallow Flushmount			
Date Installed		11/27/2017	
Ground Elevation		670.76	
Top of Casing Elevation		670.15	
Top of Screen Elevation		667.15	
Bottom of Screen Elevation		652.15	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	17.55	652.60	

KMW-5 Shallow Stick-up			
Date Installed		11/27/2017	
Ground Elevation		671.94	
Top of Casing Elevation		671.61	
Top of Screen Elevation		666.36	
Bottom of Screen Elevation		651.36	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	dry		

KMW-6 Shallow Flushmount			
Date Installed		11/27/2017	
Ground Elevation		672.06	
Top of Casing Elevation		671.61	
Top of Screen Elevation		668.91	
Bottom of Screen Elevation		653.91	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	dry		

KPZ-1 Deep Flushmount			
Date Installed		11/27/2017	
Ground Elevation		670.80	
Top of Casing Elevation		670.26	
Top of Screen Elevation		647.96	
Bottom of Screen Elevation		637.96	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	19.15	651.11	

KPZ-2 Deep Stick-up			
Date Installed		11/27/2017	
Ground Elevation		672.18	
Top of Casing Elevation		671.92	
Top of Screen Elevation		644.62	
Bottom of Screen Elevation		634.62	
Date	Depth To Water	Groundwater Elevation	Comments
12/8/2017	19.50	652.42	

Notes:
 Top of Casing and Ground Elevations were obtained from a December 2017 land survey.
 NM = Not Measured
 dry = Well did not have measurable water in casing.

TABLE 3
Geochemical Indicator Parameter Measurements
 Former Kitzinger Site
 2529 East Norwich Avenue, St. Francis, Wisconsin
 BRRTS 02-41-560089 and 03-41-196554

MW-2						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	not measured- measurable NAPL present					

MW-8						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.23	0.609	5.21	9.33	-071	12.0

MW-14						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	not measured- 1.0 feet of water column in well					

MW-15						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	not measured- measurable NAPL present					

SMW-4						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.36	0.508	5.65	10.04	-074	33.0

TABLE 3
Geochemical Indicator Parameter Measurements
 Former Kitzinger Site
 2529 East Norwich Avenue, St. Francis, Wisconsin
 BRRTS 02-41-560089 and 03-41-196554

SPM-4						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.35	0.956	5.12	9.21	-098	11.6

KMW-2						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.27	0.962	14.84	14.31	-089	11.1

KMW-3						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.38	1.82	1.55	16.19	097	27.9

KMW-4						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	not measured- 0.5 feet of water column in well					

KMW-5						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	not measured- dry well					

TABLE 3
Geochemical Indicator Parameter Measurements
 Former Kitzinger Site
 2529 East Norwich Avenue, St. Francis, Wisconsin
 BRRTS 02-41-560089 and 03-41-196554

KMW-6						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	not measured- dry well					

KPZ-1						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.41	0.980	3.58	9.25	130	15.8

KPZ-2						
Field Measurements						
Date Sampled	pH	Conductivity	Dissovled Oxygen	Temperature	Reduction/Oxidation Potential	Turbidity
	SU	mS/cm	mg/L	° Celsius	mV	NTU
12/8/2017	7.96	0.115	8.46	9.79	115	1.60

NOTES:
 LNAPL = light non-aqueous phase liquid (ie. free-phase hydrocarbons, or free product)
 SU = standard units
 mS/cm = milliSiemens per centimeter
 mV = millivolts
 NTU = Normal Turbidity Unit
 NM = not measured
 mg/L = milligrams/liter

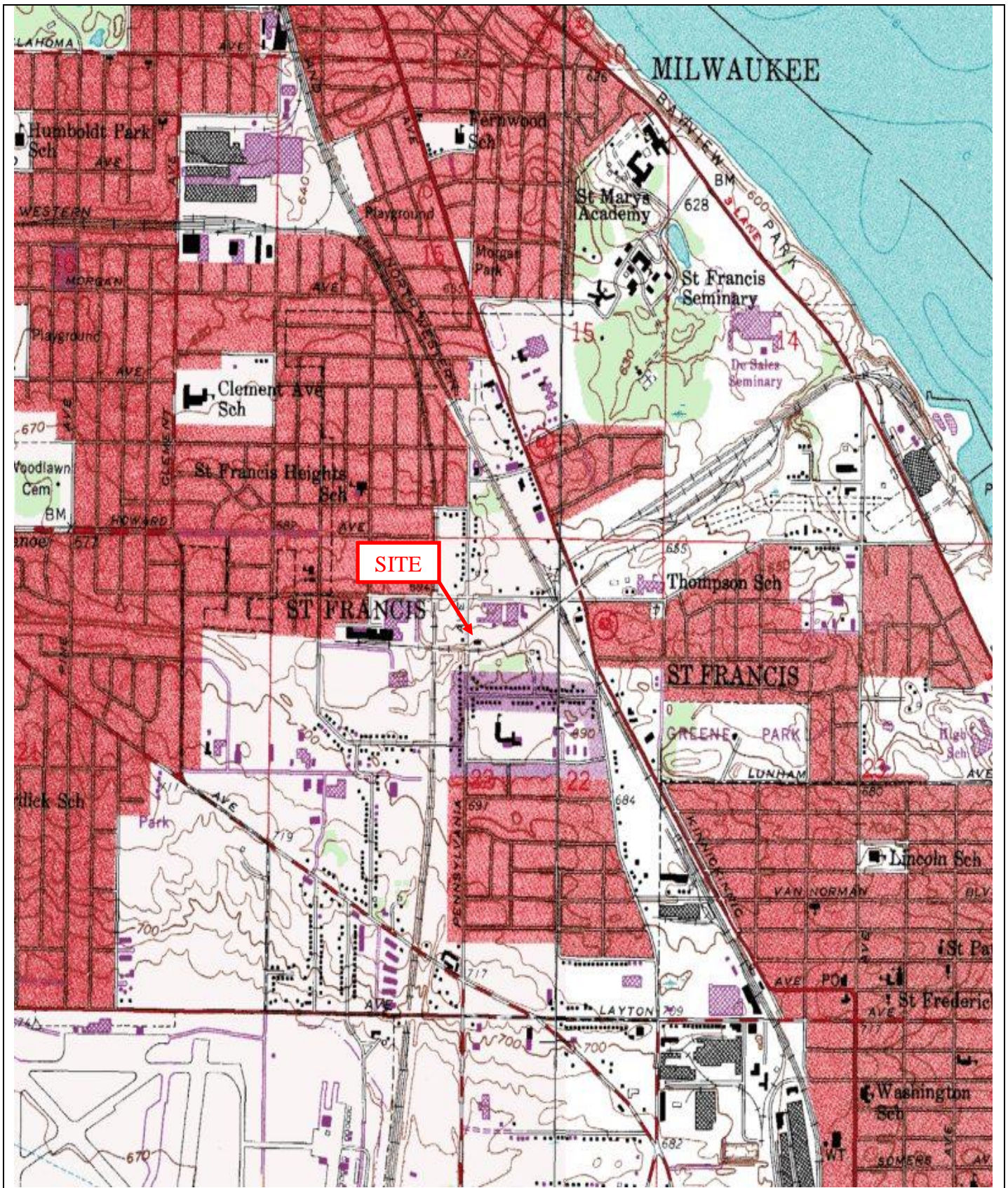
TABLE 2
Groundwater Sampling Analytical Results
Former Kitzinger Site
2529 East Norwich Avenue, St. Francis, Wisconsin
BRRTS 02-41-560089 and 03-41-196554

	Date Collected	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroethane	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl chloride	Xylenes
	NR 140 ES	5.0	NS	NS	NS	400	850	5.0	7.0	70	100	700	NS	NS	5.0	100	NS	5.0	800	200	5.0	5.0	480		0.2	2,000
	NR 140 PAL	0.5	NS	NS	NS	80	85	0.5	0.7	7.0	20	140	NS	NS	0.5	10	NS	0.5	160	40	0.5	0.5	96		0.02	400
MW-2	7/11/13	<500	<400	<605	<424	<444	2,990	518J	<427	79,400	<371	<500	<341	<397	<359	<2500	<500	<472	1,440	7,860	<390	<429	<572	<2,500	3,420	1,740J
	12/8/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	7/11/13	<0.50	5.9	17.6	1.1	3.7	44.6	<u>0.78J</u>	<u>1.7</u>	<u>30.7</u>	1.1	4.2	13.6	<0.40	<0.36	<2.5	12.3	<0.47	0.51J	3.9	<0.39	8.5	9.9	<2.5	56.5	<1.70J
	12/8/17	<10.0	<10.0	<43.7	<3.6	<u>131</u>	<u>831</u>	61.0	<8.2	1,760	<u>49.5</u>	<u>216</u>	5.5J	<10.0	<4.7	<50.0	<10.0	<10.0	425	<u>104</u>	<3.9	8.5J	<u>82.7</u>	<u>25.1</u>	2,500	1,027
MW-14	7/11/13	<0.50	<0.40	<0.60	<0.42	<0.44	4.1	<0.48	<0.43	1.1	<0.37	<0.50	<0.34	<0.40	<0.36	<2.5	<0.50	<u>3.1</u>	<0.44	12.4	<0.39	84.7	<0.57	<2.5	<0.18	<1.32
	12/8/17	<0.50	<0.50	<2.2	<0.18	<0.37	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.5
	12/8/17 D	<0.50	<0.50	<2.2	<0.18	<0.37	14.7	<0.17	<0.41	4.8	<0.26	0.57J	<0.14	<0.50	<0.23	<2.5	<0.50	<u>4.1</u>	1.0	20	<0.20	97.2	0.94J	<0.50	<0.18	3.6
SMW-3	7/11/13	<50.0	<40.0	<60.5	<42.4	<u>193</u>	1,720	269	152	29,800	<37.1	898	302	<39.7	<35.9	<250	<50.0	100	2,160	4,850	<39.0	311	<u>392J</u>	<u><250</u>	9,520	4,730
SMW-4	7/11/13	<u>1.6J</u>	7.5	3.5J	<1.1	7.9	<u>102</u>	<u>3.5</u>	<u>1.2J</u>	398	5.0	17.4	9.4	4.9	<0.90	<u>15.7</u>	4.1	<u>4.7</u>	2.4J	33.6	<u>1.6J</u>	77.1	38.6	8.4J	26.6	30.2
	12/8/17	5.4	8.2	5.5J	0.45J	64.6	52.2	14.3	<1.0	<u>15.2</u>	<0.64	48.4	11.7	5.2	<u>1.3J</u>	<u>60.3</u>	16.0	<u><1.2</u>	<1.2	3.5	<0.49	10.9	<u>91.7</u>	<u>11.7</u>	6.0	224.3J
SPM-4	7/11/13	<2,500	<2,000	<3,020	<2,120	<2,220	14,200	<2,380	2,490J	409,000	2,630J	<2,500	<1,700	<1,990	<1,790	<12,500	<2,500	<2,360	14,300	95,500	<1,950	37,100	<2,860	<12,500	14,300	<7,250J
	12/8/2017	<1,000	<1,000	<4,370	<361	<749	11,100	<336	<820	134,000	1,570J	1,830J	<287	<1,000	<465	<5,000	<1,000	<1,000	14,400	52,700	<395	<661	<1,000	<1,000	10,600	6,550J
KMW-1	7/12/13	<0.50	<0.40	<0.60	<0.42	<0.44	<0.28	<0.48	<0.43	1.3	<0.37	<0.50	<0.34	<0.40	<0.36	<2.5	<0.50	<0.47	<0.44	<0.44	<0.39	<0.43	<0.57	<2.5	<0.18	<1.32
KMW-2	7/12/13	<0.50	<0.40	<0.60	<0.42	<0.44	<0.28	<0.48	<0.43	<0.42	<0.37	<0.50	<0.34	<0.40	<0.36	<2.5	<0.50	<0.47	<0.44	<0.44	<0.39	<0.43	<0.57	<2.5	<0.18	<1.32
	12/7/17	<0.50	<0.50	<2.2	<0.18	<0.37	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	0.55J	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.5
KMW-3	7/12/13	<0.50	<0.40	<0.60	<0.42	<0.44	<0.28	<0.48	<0.43	<0.42	<0.37	<0.50	<0.34	<0.40	<0.36	<2.5	<0.50	<0.47	<0.44	<0.44	<0.39	<0.43	<0.57	<2.5	<0.18	<1.32
	12/8/17	<0.50	<0.50	<2.2	<0.18	<0.37	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.5
KMW-4	12/8/17	<0.50	<0.50	<2.2	<0.18	<0.37	<0.24	<0.17	<0.41	3.0	0.61J	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.50	<0.20	0.98J	<0.50	<0.50	6.5	<1.5
	12/8/17 D	6.6	10	6.2	0.56J	57.3	48.9	19	<0.41	<u>15.9</u>	0.48J	55.3	14.1	5.9	<u>1.0J</u>	<u>56.2</u>	19.2	<u>1.0</u>	<0.50	3.9	<0.20	13.9	<u>120</u>	<u>20.6</u>	6.1	261.9
KPZ-1	12/8/17	<0.50	<0.50	<2.2	<0.18	<0.37	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.5
KPZ-2	12/8/17	<0.50	<0.50	<2.2	<0.18	<0.37	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.5

Notes

All results are expressed in micrograms per liter (µg/L), equivalent to parts per billion (ppb).
Results presented in underlined italic type exceed the NR 140 PAL
Results presented in **bold type** exceed the NR 140 ES
J - Results between the limit of detection and limit of quantitation
NS - No Standard
DCA - Dichloroethane
DCE - Dichloroethene
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
TMB - Trimethylbenzenes
VOCs - volatile organic compounds
NR 140 PAL - Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (February 2017)
NR 140 ES - Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (February 2017)

Figures



Source: USGS

Map Source:
Greendale

Project: 1709-0866-0001

Map Date:
1976

Scale:
1:24000
Series: 7.5'



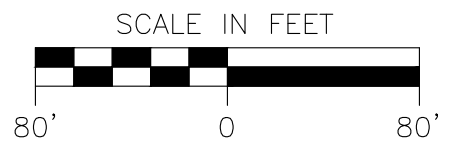
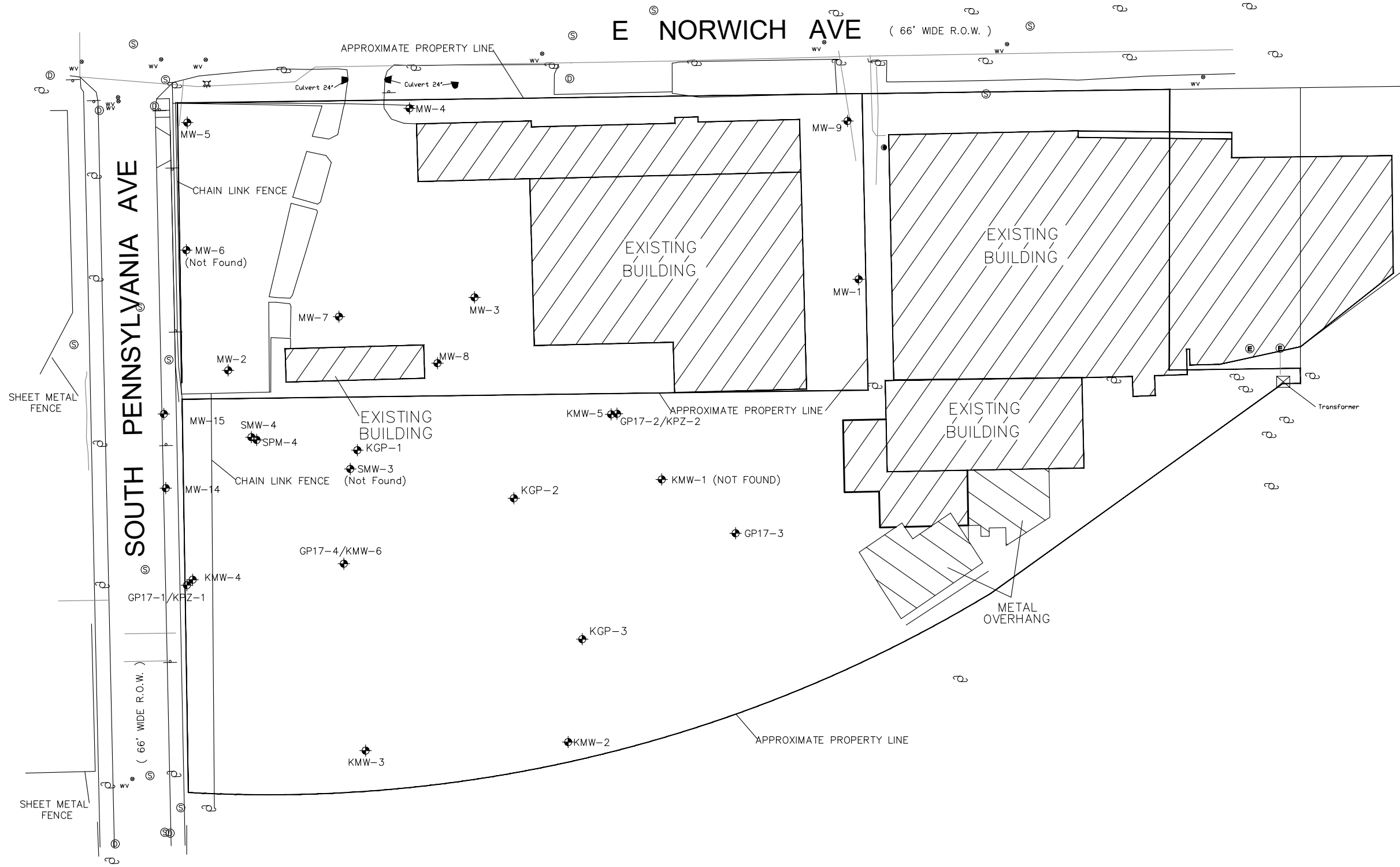
FIGURE 1
SITE LOCATION MAP
FORMER KITZINGER SITE
2529 E. NORWICH STREET
ST. FRANCIS, WISCONSIN



A Division of SET Environmental Inc

LEGEND

- ⊙ - Denotes Existing Sewer Manhole
- ⊕ - Denotes Existing Power Pole
- wv - Denotes Existing Water Valve
- ⊕ - Denotes Existing Hydrant
- ⊕ - Denotes Existing Electric Manhole
- ⊕ - Denotes Existing PVC Pipe/Culvert
- ⊕ - Denotes Existing Catch Basin
- ⊕ - Denotes Existing Monitoring Well
- - Denotes Existing Fiber Optic Line
- - Denotes Existing Electric Line
- - Denotes Existing Gas Line
- - Denotes Existing Water Line
- - Denotes Existing Gas Meter



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CADFILE	XREF
LMAN	

**FIGURE 2
SITE PLAN**
2517 & 2529 E. NORWICH AVENUE
ST FRANCIS, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

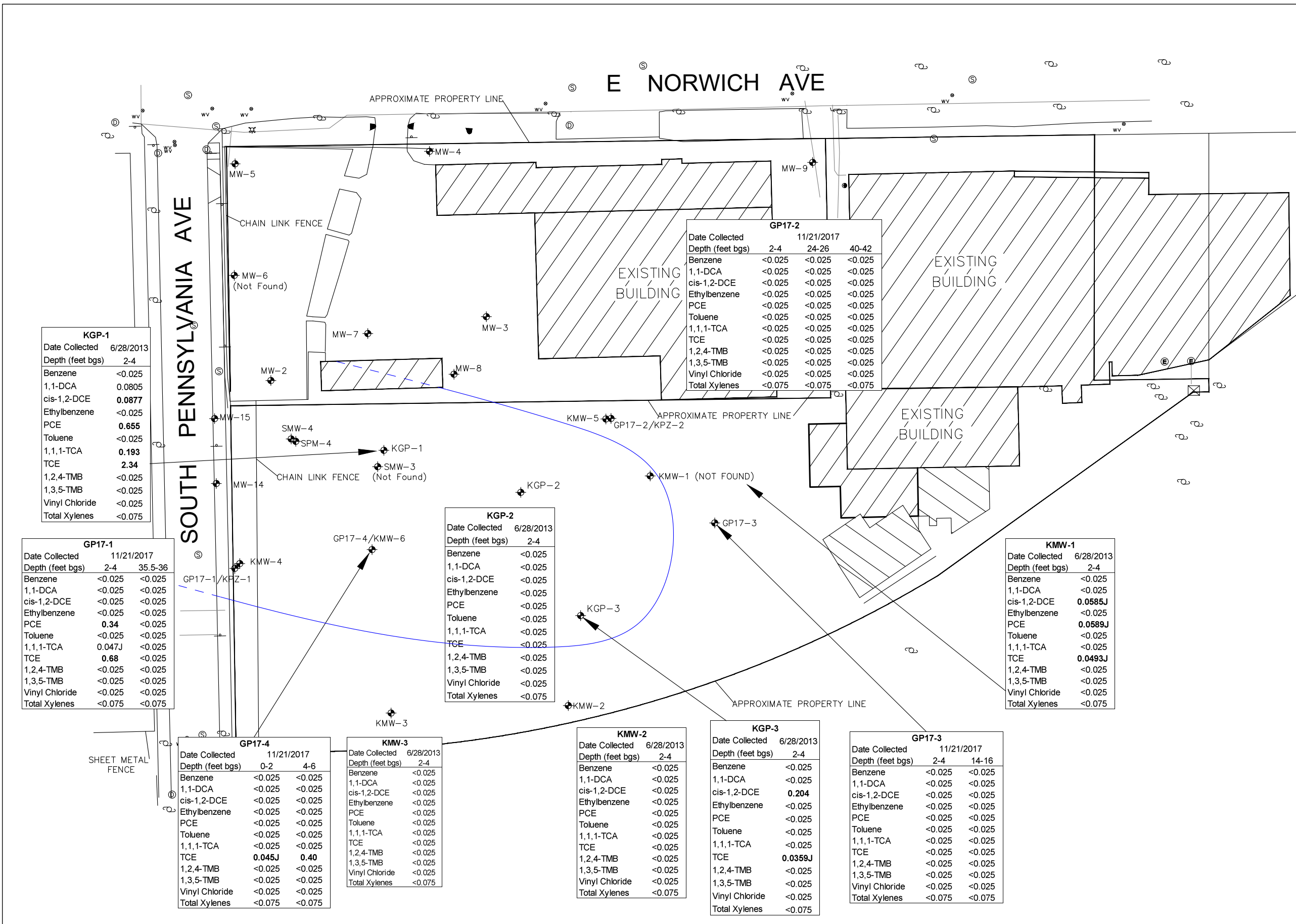
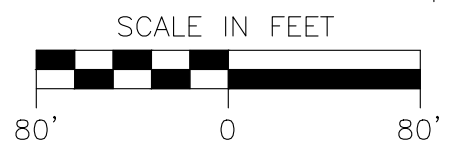
LEGEND

- ⊙ - Denotes Existing Sewer Manhole
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- ⊖ - Denotes Existing Water Valve
- ⊗ - Denotes Existing Hydrant
- ⊕ - Denotes Existing Electric Manhole
- ⊖ - Denotes Existing PVC/Culvert
- ⊙ - Denotes Existing Catch Basin
- ⊕ - Denotes Existing Monitoring Well
- - Denotes Existing Fiber Optic Line
- - Denotes Existing Electric Line
- - Denotes Existing Gas Line
- - Denotes Existing Water Line
- ⊙ - Denotes Existing Gas Meter

NOTES
 All results are expressed in milligrams per kilogram (mg/kg), equivalent to parts per million (ppm).
 Results presented in *italic type* exceed the NR 720 RCL for Industrial Direct Contact (applicable to 0 to 4 feet).
 Results presented in **bold type** exceed the NR 720 RCL for Groundwater Pathway.
 All detections in soil are presented. VOCs detected in groundwater that have an NR 720 Groundwater Pathway RCL are also presented.
 J - Results between the limit of detection and limit of quantitation
 bgs - below ground surface
 NS - No Standard
 DCA - Dichloroethane
 DCE - Dichloroethene
 PCE - Tetrachloroethene
 TCA - Trichloroethane
 TCE - Trichloroethene
 TMB - Trimethylbenzenes
 VOCs - volatile organic compounds
 NR 720 RCL - Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Level (March 2017)

Estimated extent of hydrocarbon impact to soil exceeding the NR 720 RCL for groundwater pathway

	NR 720 RCL for Groundwater Pathway	NR 720 RCL for Industrial
Benzene	0.0051	7.07
1,1-DCA	0.4834	22.2
cis-1,2-DCE	0.0412	2,340
Ethylbenzene	1.57	35.4
PCE	0.0045	145
Toluene	1.1072	818
1,1,1-TCA	0.1402	640
TCE	0.0036	8.41
1,2,4-TMB	1.3821	219
1,3,5-TMB	<0.025	182
Vinyl Chloride	0.0001	2.08
Total Xylenes	3.96	260



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FIGURE 3
SOIL SAMPLE ANALYTICAL RESULTS
2517 & 2529 E. NORWICH AVENUE
ST FRANCIS, WISCONSIN



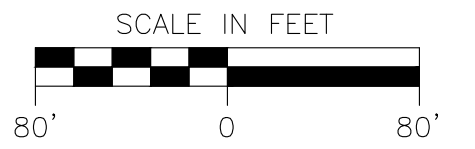
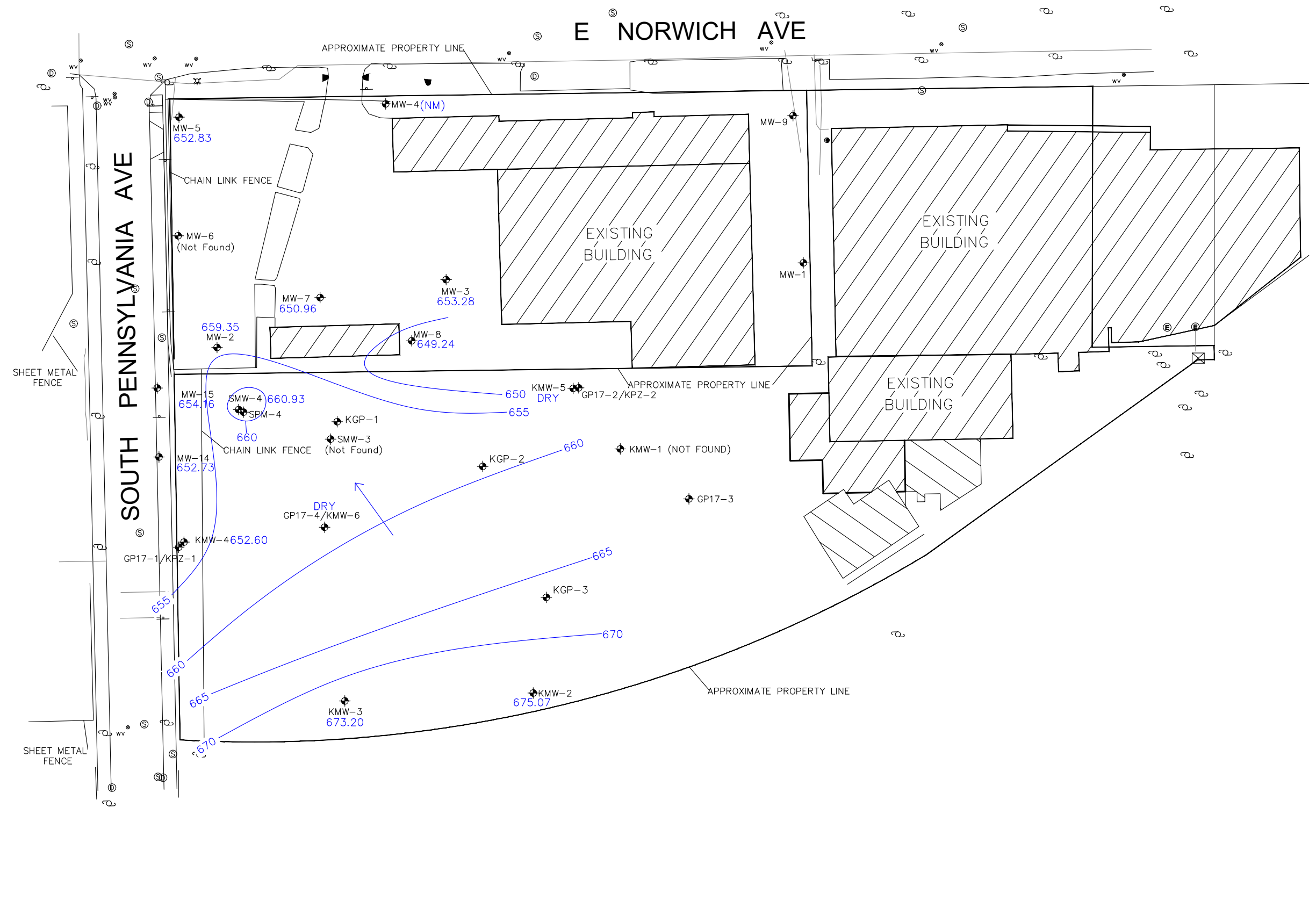
LEGEND

- ⊙ - Denotes Existing Sewer Manhole
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- wv - Denotes Existing Water Valve
- ⊕ - Denotes Existing Hydrant
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- - Denotes Existing Electric Line
- - Denotes Existing Gas Line
- - Denotes Existing Water Line
- ⊕ - Denotes Existing Gas Meter

LNAPL, or free product was observed in off site wells MW-2 and MW-15. The groundwater elevations were not calculated to correct for the contrast in density between LNAPL and groundwater.

HYDRAULIC GRADIENT

$\frac{dh}{dl} = 0.11 \text{ ft/ft}$



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CADFILE	XREF
LMAN	

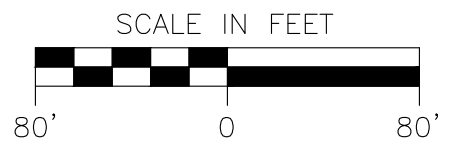
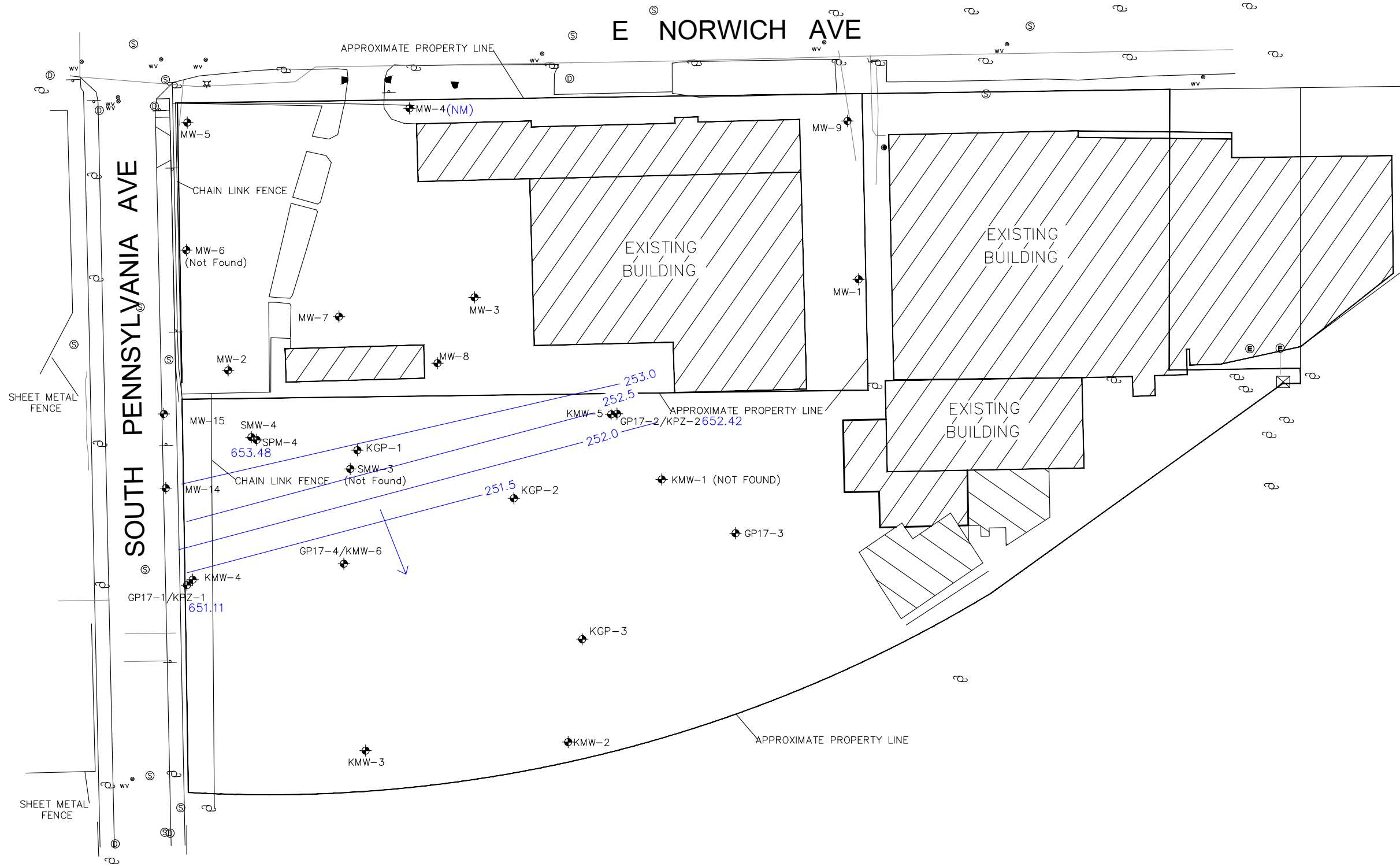
FIGURE 4
SHALLOW GROUNDWATER ELEVATION CONTOUR MAP - 12/8/17
2517 & 2529 E. NORWICH AVENUE
ST FRANCIS, WISCONSIN

KEY ENGINEERING GROUP LTD.
 735 NORTH WATER STREET, SUITE 510
 MILWAUKEE, WI 53202
 414.224.8300 (tel) - 414.224.8383 (fax)

LEGEND

- ⊙ - Denotes Existing Sewer Manhole
- ⊕ - Denotes Existing Power Pole
- wv - Denotes Existing Water Valve
- ⊕ - Denotes Existing Hydrant
- ⊕ - Denotes Existing Electric Manhole
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- - Denotes Existing Fiber Optic Line
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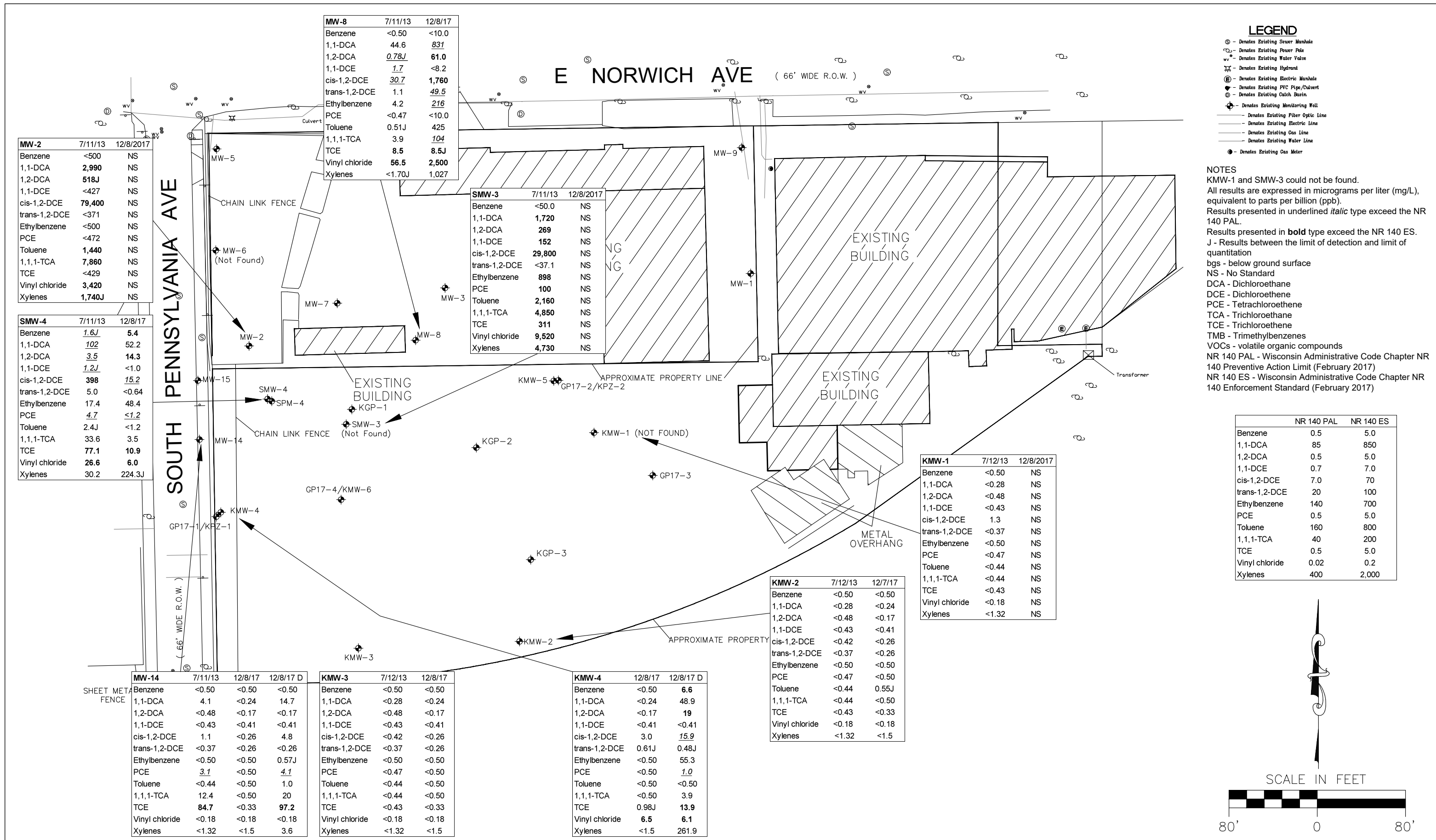
HYDRAULIC GRADIENT
 $\frac{dh}{dl} = 0.026 \text{ ft/ft}$



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APPROVED BY	SHEET NO.
CADFILE	XREF
LMAN	

FIGURE 5
DEEP GROUNDWATER ELEVATION CONTOUR MAP - 12/8/17
2517 & 2529 E. NORWICH AVENUE
ST FRANCIS, WISCONSIN

KEY ENGINEERING GROUP LTD.
 735 NORTH WATER STREET, SUITE 510
 MILWAUKEE, WI 53202
 414.224.8300 (tel) - 414.224.8383 (fax)



LEGEND

- ⊙ - Denotes Existing Sewer Manhole
- ⊕ - Denotes Existing Power Pole
- ⊖ - Denotes Existing Water Valve
- ⊗ - Denotes Existing Hydrant
- ⊕ - Denotes Existing Electric Manhole
- ⊖ - Denotes Existing PVC/Culvert
- ⊙ - Denotes Existing Catch Basin
- ⊕ - Denotes Existing Monitoring Well
- - Denotes Existing Fiber Optic Line
- - Denotes Existing Electric Line
- - Denotes Existing Gas Line
- - Denotes Existing Water Line
- ⊙ - Denotes Existing Gas Meter

NOTES
 KMW-1 and SMW-3 could not be found.
 All results are expressed in micrograms per liter (mg/L), equivalent to parts per billion (ppb).
 Results presented in *underlined italic type* exceed the NR 140 PAL.
 Results presented in **bold type** exceed the NR 140 ES.
 J - Results between the limit of detection and limit of quantitation
 bgs - below ground surface
 NS - No Standard
 DCA - Dichloroethane
 DCE - Dichloroethene
 PCE - Tetrachloroethene
 TCA - Trichloroethane
 TCE - Trichloroethene
 TMB - Trimethylbenzenes
 VOCs - volatile organic compounds
 NR 140 PAL - Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (February 2017)
 NR 140 ES - Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (February 2017)

	NR 140 PAL	NR 140 ES
Benzene	0.5	5.0
1,1-DCA	85	850
1,2-DCA	0.5	5.0
1,1-DCE	0.7	7.0
cis-1,2-DCE	7.0	70
trans-1,2-DCE	20	100
Ethylbenzene	140	700
PCE	0.5	5.0
Toluene	160	800
1,1,1-TCA	40	200
TCE	0.5	5.0
Vinyl chloride	0.02	0.2
Xylenes	400	2,000

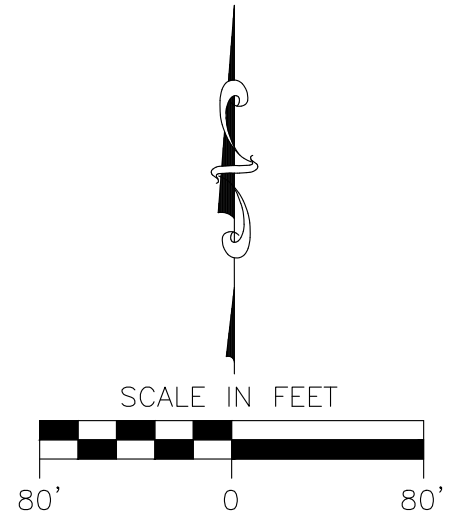


FIGURE 6
GROUNDWATER SAMPLING ANALYTICAL RESULTS MAP
2517 & 2529 E. NORWICH AVENUE
ST FRANCIS, WISCONSIN

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APPROVED BY	SHEET NO.
CADFILE	XREF
LMAN	

DATE	1/22/2018
PROJECT	1703-0866-0001
SHEET NO.	1

KEY ENGINEERING GROUP LTD.
 735 NORTH WATER STREET, SUITE 510
 MILWAUKEE, WI 53202
 414.224.8300 (tel) - 414.224.8383 (fax)

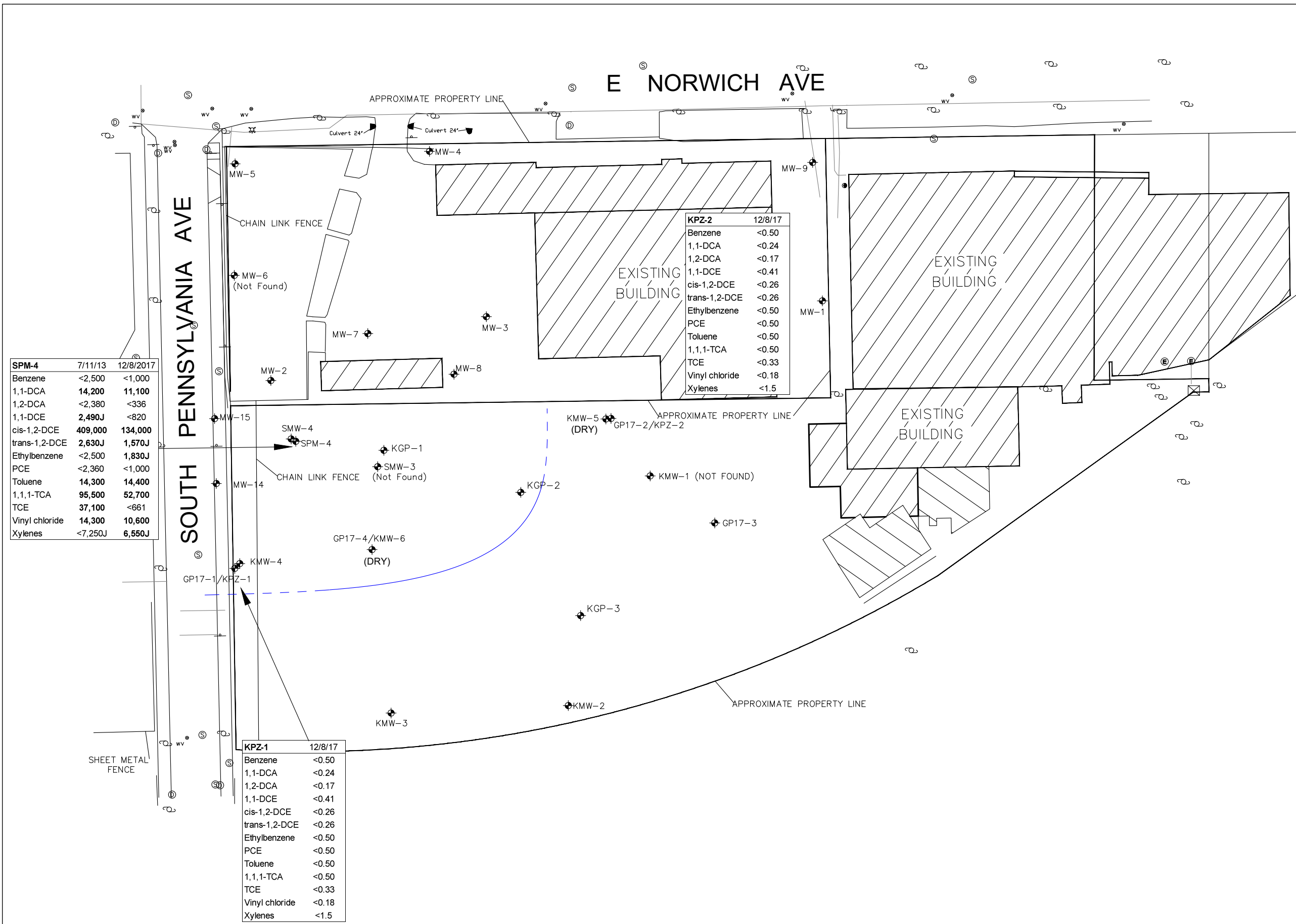
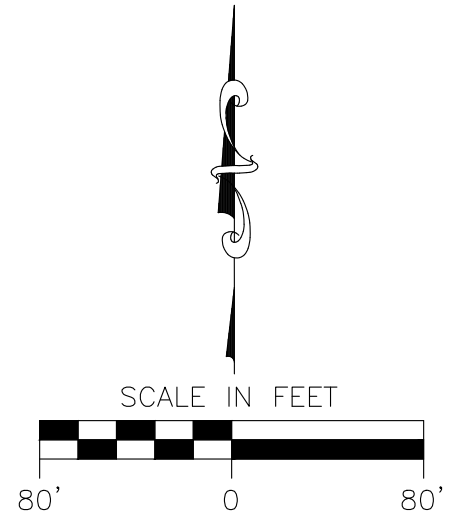
LEGEND

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- ⊕ - Denotes Existing Monitoring Well
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- - Denotes Existing Electric Line
- - Denotes Existing Gas Line
- - Denotes Existing Water Line
- ⊕ - Denotes Existing Gas Meter

NOTES

All results are expressed in micrograms per liter (mg/L), equivalent to parts per billion (ppb).
 Results presented in italic type exceed the NR 140 PAL.
 Results presented in **bold type** exceed the NR 140 ES.
 J - Results between the limit of detection and limit of quantitation
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 DCA - Dichloroethane
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 VOCs - volatile organic compounds
 NR 140 PAL - Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (February 2017)
 NR 140 ES - Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (February 2017)

	NR 140 PAL	NR 140 ES
Benzene	0.5	5.0
1,1-DCA	85	850
1,2-DCA	0.5	5.0
1,1-DCE	0.7	7.0
cis-1,2-DCE	7.0	70
trans-1,2-DCE	20	100
Ethylbenzene	140	700
PCE	0.5	5.0
Toluene	160	800
1,1,1-TCA	40	200
TCE	0.5	5.0
Vinyl chloride	0.02	0.2
Xylenes	400	2,000



Sample ID	Date
KPZ-2	12/8/17
Benzene	<0.50
1,1-DCA	<0.24
1,2-DCA	<0.17
1,1-DCE	<0.41
cis-1,2-DCE	<0.26
trans-1,2-DCE	<0.26
Ethylbenzene	<0.50
PCE	<0.50
Toluene	<0.50
1,1,1-TCA	<0.50
TCE	<0.33
Vinyl chloride	<0.18
Xylenes	<1.5

Sample ID	Date
KPZ-1	12/8/17
Benzene	<0.50
1,1-DCA	<0.24
1,2-DCA	<0.17
1,1-DCE	<0.41
cis-1,2-DCE	<0.26
trans-1,2-DCE	<0.26
Ethylbenzene	<0.50
PCE	<0.50
Toluene	<0.50
1,1,1-TCA	<0.50
TCE	<0.33
Vinyl chloride	<0.18
Xylenes	<1.5

Sample ID	7/11/13	12/8/2017
SPM-4		
Benzene	<2,500	<1,000
1,1-DCA	14,200	11,100
1,2-DCA	<2,380	<336
1,1-DCE	2,490J	<820
cis-1,2-DCE	409,000	134,000
trans-1,2-DCE	2,630J	1,570J
Ethylbenzene	<2,500	1,830J
PCE	<2,360	<1,000
Toluene	14,300	14,400
1,1,1-TCA	95,500	52,700
TCE	37,100	<661
Vinyl chloride	14,300	10,600
Xylenes	<7,250J	6,550J

FIGURE 7
SHALLOW GROUNDWATER SAMPLING ANALYTICAL RESULTS MAP
2517 & 2529 E. NORWICH AVENUE
ST FRANCIS, WISCONSIN

DESIGNED BY	DATE
DRAWN BY	PROJECT
APPROVED BY	SHEET NO.
CADFILE	XREF
LMAN	

KEY ENGINEERING GROUP LTD.
 735 NORTH WATER STREET, SUITE 510
 MILWAUKEE, WI 53202
 414.224.8300 (tel) - 414.224.8383 (fax)

Attachment 1

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-1</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i>		Date Drilling Started <i>11 21 2017</i>		Date Drilling Completed <i>11 21 2018</i>	
Firm: <i>Horizon Environmental</i>		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
WI Unique Well No.	DNR Well ID No.	Well Name		Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane _____ N, _____ E			Lat _____ ' "		
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ' "		
Facility ID		County <i>Milwaukee</i>		County Code	
				Civil Town/City/ or Village <i>St Francis</i>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments			
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200				
				3 inches grass root matter Ⓢ top followed by moist dark brown to black top soil w/ root matter													
	2 inches			change to dry, slightly dry moist brown clay no odor, low plastic													
	2 inches		4	Saa													
	2 inches		6	Saa													
	2 inches		8	Saa													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Archamand B. Key* Firm *Key Engineering*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 3

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-2</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i> Firm: <i>Horizon Environmental</i>		Date Drilling Started <i>11 21 2017</i> m m d d y y y y	Date Drilling Completed <i>11 21 2018</i> m m d d y y y y	Drilling Method <i>Direct Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location		Borehole Diameter inches	
State Plane _____ N, _____ E		Lat _____ ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ ' "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID _____		County <i>Milwaukee</i>	County Code _____	Civil Town/City/ or Village <i>St Francis</i>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
3				Root Matter, 1 inch, Grass, 2 inches TOP Soil											
2				2 changes to moist to dry clay crumbly											
8				4 Saa, moist to stiff low plastic											
8				6 Saa											
8				8 Saa											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Orlando Wind* Firm *Key Engineering*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Saa										
			32	Saa										
			34	Saa										
			36	Saa										
			38	Stiffness w/ Depth ↓										
			40	Saa										
			42	Saa										
			44	Saa										
			45	Saa or B ^{get} 45										
			46											

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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

GP17-3 Page 1 of 2

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i> Firm: <i>Horizon Environmental</i>		Date Drilling Started <i>11 21 2017</i>	Date Drilling Completed <i>11 21 2018</i>	Drilling Method <i>Direct Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location			
State Plane _____ N, _____ E		Lat _____ ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ ' "		Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
Facility ID		County <i>Milwaukee</i>	County Code	Civil Town/City/ or Village <i>St Francis</i>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Fill, WOOD chunks, ↳ Foundry Sand RED BRICK SLAG (12 inches) followed by moist to stiff brn clay 2 orange mottling Saa (no mottling) Moist to Stiff										
			4	Saa										
			6	Saa										
			8	Saa										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Joachim Windt* Firm *Key Engineering*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

GP 17-4
Page 1 of 2

Facility/Project Name <i>former Kitzinger Site</i>		License/Permit/Monitoring Number		Boring Number <i>GP17-</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>ADAM</i> Last Name: <i>Sweet</i> Firm: <i>Horizon Environmental</i>		Date Drilling Started <i>11 21 2017</i>	Date Drilling Completed <i>11 21 2018</i>	Drilling Method <i>Direct Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Local Grid Location Lat _____ ° _____ ' _____ " _____ N _____ E Long _____ ° _____ ' _____ " _____ S _____ Feet _____ W		
Facility ID	County <i>Milwaukee</i>	County Code	Civil Town/City/ or Village <i>ST FRANCIS</i>		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
<i>24</i>				<i>Hard pack brown clay w/ orange mottling</i>										
			<i>2</i>	<i>Saa less orange mottling</i>										
			<i>4</i>	<i>Saa increase orange mottling</i>										
			<i>6</i>	<i>Saa</i>										
			<i>8</i>	<i>Saa stiff</i>										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Jack Janowski* Firm *Key Engineering*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Former Kitzig site</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <u>KMW-4</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed <u>12/7/2017</u> m m d d y y y y	
Type of Well Well Code <u>1</u>		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Adam Sweet</u> <u>Horizon</u>	
Distance from Waste/Source ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

A. Protective pipe, top elevation	----- ft. MSL		1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	----- ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation	----- ft. MSL		b. Length: _____ ft.
D. Surface seal, bottom	----- ft. MSL or <u>0.5</u> ft.		c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>			d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>			4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99			5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1.987</u> Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
Describe _____			6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): <u>X</u>			7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidelley 4000</u> <u>40</u>
E. Bentonite seal, top	----- ft. MSL or <u>4.5</u> ft.	b. Volume added <u>0.663</u> ft ³	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidelley</u> <u>20</u>
F. Fine sand, top	----- ft. MSL or <u>2.0</u> ft.	b. Volume added <u>19.875</u> ft ³	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top	----- ft. MSL or <u>2.5</u> ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	b. Manufacturer <u>Monoflex</u>
H. Screen joint, top	----- ft. MSL or <u>3</u> ft.	c. Slot size: <u>0.010</u> in.	d. Slotted length: <u>15</u> ft.
I. Well bottom	----- ft. MSL or <u>18</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
J. Filter pack, bottom	----- ft. MSL or <u>18</u> ft.		
K. Borehole, bottom	----- ft. MSL or <u>18</u> ft.		
L. Borehole, diameter	<u>8.375</u> in.		
M. O.D. well casing	<u>8.375</u> in.		
N. I.D. well casing	<u>2.0</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

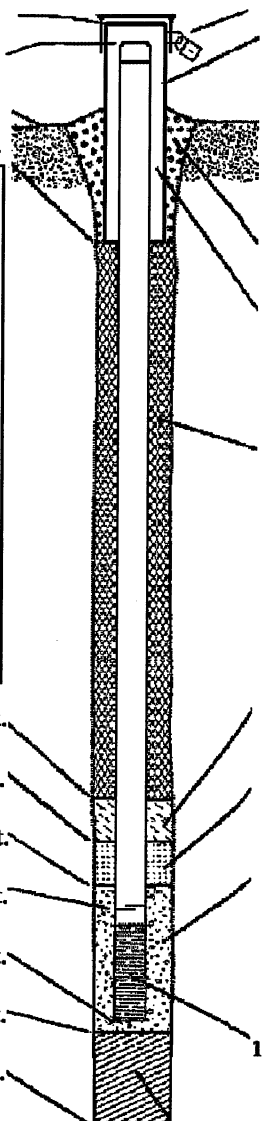
Signature: [Signature] Firm: CEJ Engineering

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name <u>Former Kitzinger Site</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name <u>KMW-5</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>11/27/07</u> m m d d y y v v v y	
Type of Well Well Code <u>1</u>		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Adam Sweet</u> <u>Horizon</u>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. <u>4</u>
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft. <u>5</u>
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	
17. Source of water (attach analysis, if required): <u>X</u>	
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>2.0</u> ft.	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>2.5</u> ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1.9875</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
H. Screen joint, top _____ ft. MSL or <u>3</u> ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>18</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley 4000</u>
J. Filter pack, bottom _____ ft. MSL or <u>18</u> ft.	b. Volume added <u>0.063</u> ft ³
K. Borehole, bottom _____ ft. MSL or <u>18</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley</u>
L. Borehole, diameter <u>2.375</u> in.	b. Volume added <u>19.875</u> ft ³
M. O.D. well casing <u>2.375</u> in.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
N. I.D. well casing <u>2.00</u> in.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
	b. Manufacturer <u>Monoflex</u>
	c. Slot size: <u>0.010</u> in.
	d. Slotted length: <u>15</u> ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: ACE Engineering

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Former Kitzinger Site</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <u>KMW-6</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed <u>11/27/01</u> m m d d y y v v v y	
Type of Well Well Code _____ / _____		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Adam Sweet</u> <u>Horizon</u>	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in.
C. Land surface elevation _____ ft. MSL	b. Length: <u>1.5</u> ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. <u>10875</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): <u>X</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley 4000</u> b. Volume added <u>0.1065</u> ft ³
E. Bentonite seal, top _____ ft. MSL or <u>6.5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley</u> b. Volume added <u>19.875</u> ft ³
F. Fine sand, top _____ ft. MSL or <u>2</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>2.5</u> ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3</u> ft.	b. Manufacturer <u>Monoflex</u>
I. Well bottom _____ ft. MSL or <u>18</u> ft.	c. Slot size: <u>0.016</u> in.
J. Filter pack, bottom _____ ft. MSL or <u>18</u> ft.	d. Slotted length: <u>15</u> ft.
K. Borehole, bottom _____ ft. MSL or <u>18</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter <u>8.375</u> in.	
M. O.D. well casing <u>2.375</u> in.	
N. I.D. well casing <u>2.0</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm KEY Engineering

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Facility/Project Name <i>Former Kitzinger site</i>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <i>KPZ-1</i>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <i>11 12 7 2017</i> m d d y y y y
Type of Well Well Code _____ / _____	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <i>Adam Sweet Horizon</i>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation _____ ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or *0.5* ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

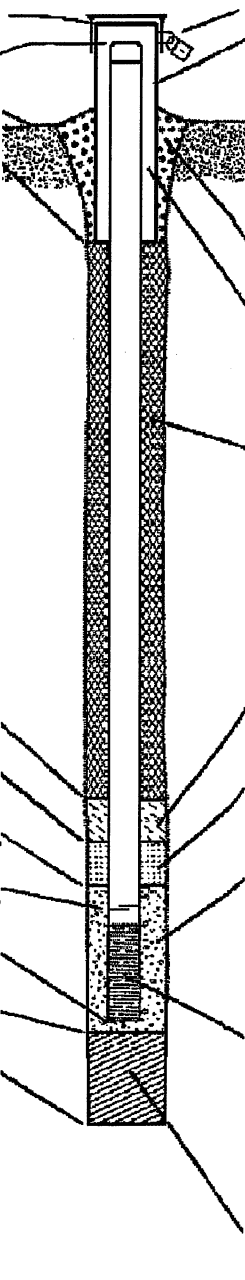
14. Drilling method used:
 Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
X



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ in. *8*
 b. Length: _____ ft. *10*
 c. Material: Steel 04
 Other

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal:
 Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight... Bentonite slurry 31
 d. _____ % Bentonite... Bentonite-cement grout 50
 e. *3.14* Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. *R.W. Sidley 400*
 b. Volume added *2.650* ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. *R.W. Sidley*
 b. Volume added *2.650* ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other

10. Screen material:
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other

b. Manufacturer *Monoflex*
 c. Slot size: _____ 0.010 in.
 d. Slotted length: _____ 10 ft.

11. Backfill material (below filter pack):
 None 14
 Other

E. Bentonite seal, top _____ ft. MSL or *0.5* ft.
 F. Fine sand, top _____ ft. MSL or *24* ft.
 G. Filter pack, top _____ ft. MSL or *26* ft.
 H. Screen joint, top _____ ft. MSL or *28* ft.
 I. Well bottom _____ ft. MSL or *38* ft.
 J. Filter pack, bottom _____ ft. MSL or *38* ft.
 K. Borehole, bottom _____ ft. MSL or *38* ft.
 L. Borehole, diameter *8.375* in.
 M. O.D. well casing *2.375* in.
 N. I.D. well casing *2.0* in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature _____ Firm *Key Engineering*

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Former Fitzinger Site</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>KPZ-2</u>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>12 27 2017</u> m m d d y y v v y
Type of Well Well Code _____ / _____	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Adam Sweet</u> <u>Horizon</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. <u>4</u> b. Length: _____ ft. <u>5</u> c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: - GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>28.5</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>R.W. Sidley 400</u> <u>40</u> b. Volume added <u>1.525</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley</u> <u>20</u> b. Volume added <u>2.650</u> ft ³
17. Source of water (attach analysis, if required): <u>X</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>22</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10 ft.
G. Filter pack, top _____ ft. MSL or <u>23</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>25</u> ft.	
I. Well bottom _____ ft. MSL or <u>35</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>35</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>35</u> ft.	
L. Borehole, diameter <u>8.375</u> in.	
M. O.D. well casing <u>2.375</u> in.	
N. I.D. well casing <u>2.000</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm KEY Engineering

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Attachment 2

December 05, 2017

Kurt McClung
Key Engineering Group, LTD.
735 North Water Street
Milwaukee, WI 53202

RE: Project: FORMER KITZINGER SITE
Pace Project No.: 40161276

Dear Kurt McClung:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2017. 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

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: FORMER KITZINGER SITE

Pace Project No.: 40161276

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161276001	GP17-1 (2-4)	Solid	11/21/17 11:30	11/22/17 07:15
40161276002	GP17-1 (35.5-36.0)	Solid	11/21/17 11:45	11/22/17 07:15
40161276003	GP17-2 2.4	Solid	11/21/17 14:05	11/22/17 07:15
40161276004	GP17-2 2.4-26	Solid	11/21/17 14:10	11/22/17 07:15
40161276005	GP17-2 40.42	Solid	11/21/17 14:15	11/22/17 07:15
40161276006	GP17-3 2.4	Solid	11/21/17 14:30	11/22/17 07:15
40161276007	GP17-3 14.16	Solid	11/21/17 14:45	11/22/17 07:15
40161276008	GP17-4 0-2	Solid	11/21/17 15:15	11/22/17 07:15
40161276009	GP17-4 4-6	Solid	11/21/17 15:30	11/22/17 07:15
40161276010	TRIP	Solid	11/21/17 00:00	11/22/17 07:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161276001	GP17-1 (2-4)	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276002	GP17-1 (35.5-36.0)	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276003	GP17-2 2.4	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276004	GP17-2 2.4-26	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276005	GP17-2 40.42	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276006	GP17-3 2.4	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276007	GP17-3 14.16	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276008	GP17-4 0-2	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276009	GP17-4 4-6	EPA 8260	SMT	64
		ASTM D2974-87	RMV	1
40161276010	TRIP	EPA 8260	SMT	64

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40161276001	GP17-1 (2-4)					
EPA 8260	Methylene Chloride	0.046J	mg/kg	0.067	12/01/17 20:08	
EPA 8260	Tetrachloroethene	0.34	mg/kg	0.067	12/01/17 20:08	
EPA 8260	1,1,1-Trichloroethane	0.047J	mg/kg	0.067	12/01/17 20:08	
EPA 8260	Trichloroethene	0.68	mg/kg	0.067	12/01/17 20:08	
ASTM D2974-87	Percent Moisture	10.7	%	0.10	11/27/17 15:05	
40161276002	GP17-1 (35.5-36.0)					
EPA 8260	Methylene Chloride	0.041J	mg/kg	0.066	12/01/17 20:31	
ASTM D2974-87	Percent Moisture	9.5	%	0.10	11/27/17 15:05	
40161276003	GP17-2 2.4					
EPA 8260	Methylene Chloride	0.038J	mg/kg	0.069	12/01/17 20:54	
ASTM D2974-87	Percent Moisture	13.1	%	0.10	11/27/17 15:05	
40161276004	GP17-2 2.4-26					
EPA 8260	Methylene Chloride	0.033J	mg/kg	0.068	12/01/17 21:17	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	11/27/17 15:08	
40161276005	GP17-2 40.42					
EPA 8260	Methylene Chloride	0.031J	mg/kg	0.068	12/01/17 21:40	
ASTM D2974-87	Percent Moisture	11.4	%	0.10	11/27/17 15:08	
40161276006	GP17-3 2.4					
EPA 8260	Methylene Chloride	0.034J	mg/kg	0.069	12/01/17 22:03	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	11/27/17 16:37	
40161276007	GP17-3 14.16					
EPA 8260	Methylene Chloride	0.039J	mg/kg	0.069	12/01/17 22:27	
ASTM D2974-87	Percent Moisture	13.1	%	0.10	11/27/17 16:37	
40161276008	GP17-4 0-2					
EPA 8260	Methylene Chloride	0.035J	mg/kg	0.067	12/01/17 22:50	
EPA 8260	Trichloroethene	0.045J	mg/kg	0.067	12/01/17 22:50	
ASTM D2974-87	Percent Moisture	10.4	%	0.10	11/27/17 16:37	
40161276009	GP17-4 4-6					
EPA 8260	Methylene Chloride	0.038J	mg/kg	0.068	12/01/17 23:13	
EPA 8260	Trichloroethene	0.40	mg/kg	0.068	12/01/17 23:13	
ASTM D2974-87	Percent Moisture	12.2	%	0.10	11/27/17 16:37	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-1 (2-4) Lab ID: 40161276001 Collected: 11/21/17 11:30 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 20:08	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 20:08	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 20:08	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 20:08	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/04/17 15:08	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	99-87-6	W
Methylene Chloride	0.046J	mg/kg	0.067	0.028	1	11/29/17 07:30	12/01/17 20:08	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 20:08	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-1 (2-4) Lab ID: 40161276001 Collected: 11/21/17 11:30 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	79-34-5	W
Tetrachloroethene	0.34	mg/kg	0.067	0.028	1	11/29/17 07:30	12/01/17 20:08	127-18-4	
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 20:08	120-82-1	W
1,1,1-Trichloroethane	0.047J	mg/kg	0.067	0.028	1	11/29/17 07:30	12/01/17 20:08	71-55-6	
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	79-00-5	W
Trichloroethene	0.68	mg/kg	0.067	0.028	1	11/29/17 07:30	12/01/17 20:08	79-01-6	
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 20:08	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	68-130		1	11/29/17 07:30	12/01/17 20:08	1868-53-7	
Toluene-d8 (S)	116	%	68-149		1	11/29/17 07:30	12/01/17 20:08	2037-26-5	
4-Bromofluorobenzene (S)	103	%	58-141		1	11/29/17 07:30	12/01/17 20:08	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.7	%	0.10	0.10	1		11/27/17 15:05		

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-1 (35.5-36.0) Lab ID: 40161276002 Collected: 11/21/17 11:45 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 20:31	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 20:31	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 20:31	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 20:31	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/04/17 15:31	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	99-87-6	W
Methylene Chloride	0.041J	mg/kg	0.066	0.028	1	11/29/17 07:30	12/01/17 20:31	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 20:31	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: **GP17-1 (35.5-36.0)** Lab ID: **40161276002** Collected: 11/21/17 11:45 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 20:31	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 20:31	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	68-130		1	11/29/17 07:30	12/01/17 20:31	1868-53-7	
Toluene-d8 (S)	106	%	68-149		1	11/29/17 07:30	12/01/17 20:31	2037-26-5	
4-Bromofluorobenzene (S)	95	%	58-141		1	11/29/17 07:30	12/01/17 20:31	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.5	%	0.10	0.10	1		11/27/17 15:05		

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE
Pace Project No.: 40161276

Sample: GP17-2.4 Lab ID: 40161276003 Collected: 11/21/17 14:05 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 20:54	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 20:54	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 20:54	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 20:54	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	99-87-6	W
Methylene Chloride	0.038J	mg/kg	0.069	0.029	1	11/29/17 07:30	12/01/17 20:54	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 20:54	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-2 2.4 **Lab ID: 40161276003** Collected: 11/21/17 14:05 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 20:54	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 20:54	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 20:54	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	68-130		1	11/29/17 07:30	12/01/17 20:54	1868-53-7	
Toluene-d8 (S)	108	%	68-149		1	11/29/17 07:30	12/01/17 20:54	2037-26-5	
4-Bromofluorobenzene (S)	97	%	58-141		1	11/29/17 07:30	12/01/17 20:54	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.1	%	0.10	0.10	1		11/27/17 15:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-2 2.4-26 Lab ID: 40161276004 Collected: 11/21/17 14:10 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 21:17	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 21:17	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 21:17	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 21:17	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/04/17 15:54	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	99-87-6	W
Methylene Chloride	0.033J	mg/kg	0.068	0.029	1	11/29/17 07:30	12/01/17 21:17	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 21:17	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-2 2.4-26 Lab ID: 40161276004 Collected: 11/21/17 14:10 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 21:17	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 21:17	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:17	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	68-130		1	11/29/17 07:30	12/01/17 21:17	1868-53-7	
Toluene-d8 (S)	102	%	68-149		1	11/29/17 07:30	12/01/17 21:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	58-141		1	11/29/17 07:30	12/01/17 21:17	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.4	%	0.10	0.10	1		11/27/17 15:08		

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-2 40.42 Lab ID: 40161276005 Collected: 11/21/17 14:15 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 21:40	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 21:40	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 21:40	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 21:40	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	99-87-6	W
Methylene Chloride	0.031J	mg/kg	0.068	0.028	1	11/29/17 07:30	12/01/17 21:40	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 21:40	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: **GP17-2 40.42** Lab ID: **40161276005** Collected: 11/21/17 14:15 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 21:40	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 21:40	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 21:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	68-130		1	11/29/17 07:30	12/01/17 21:40	1868-53-7	
Toluene-d8 (S)	95	%	68-149		1	11/29/17 07:30	12/01/17 21:40	2037-26-5	
4-Bromofluorobenzene (S)	85	%	58-141		1	11/29/17 07:30	12/01/17 21:40	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.4	%	0.10	0.10	1		11/27/17 15:08		

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-3 2.4 Lab ID: 40161276006 Collected: 11/21/17 14:30 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 22:03	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 22:03	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 22:03	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 22:03	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	99-87-6	W
Methylene Chloride	0.034J	mg/kg	0.069	0.029	1	11/29/17 07:30	12/01/17 22:03	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 22:03	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-3 2.4 **Lab ID: 40161276006** Collected: 11/21/17 14:30 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 22:03	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 22:03	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	68-130		1	11/29/17 07:30	12/01/17 22:03	1868-53-7	
Toluene-d8 (S)	101	%	68-149		1	11/29/17 07:30	12/01/17 22:03	2037-26-5	
4-Bromofluorobenzene (S)	91	%	58-141		1	11/29/17 07:30	12/01/17 22:03	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.4	%	0.10	0.10	1		11/27/17 16:37		

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE
Pace Project No.: 40161276

Sample: GP17-3 14.16 Lab ID: 40161276007 Collected: 11/21/17 14:45 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 22:27	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 22:27	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 22:27	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 22:27	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	99-87-6	W
Methylene Chloride	0.039J	mg/kg	0.069	0.029	1	11/29/17 07:30	12/01/17 22:27	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 22:27	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-3 14.16 **Lab ID: 40161276007** Collected: 11/21/17 14:45 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 22:27	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 22:27	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:27	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	11/29/17 07:30	12/01/17 22:27	1868-53-7	
Toluene-d8 (S)	99	%	68-149		1	11/29/17 07:30	12/01/17 22:27	2037-26-5	
4-Bromofluorobenzene (S)	89	%	58-141		1	11/29/17 07:30	12/01/17 22:27	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.1	%	0.10	0.10	1		11/27/17 16:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-4 0-2 Lab ID: 40161276008 Collected: 11/21/17 15:15 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 22:50	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 22:50	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 22:50	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 22:50	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	99-87-6	W
Methylene Chloride	0.035J	mg/kg	0.067	0.028	1	11/29/17 07:30	12/01/17 22:50	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 22:50	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-4 0-2 Lab ID: 40161276008 Collected: 11/21/17 15:15 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 22:50	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	79-00-5	W
Trichloroethene	0.045J	mg/kg	0.067	0.028	1	11/29/17 07:30	12/01/17 22:50	79-01-6	
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 22:50	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 22:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	68-130		1	11/29/17 07:30	12/01/17 22:50	1868-53-7	
Toluene-d8 (S)	105	%	68-149		1	11/29/17 07:30	12/01/17 22:50	2037-26-5	
4-Bromofluorobenzene (S)	95	%	58-141		1	11/29/17 07:30	12/01/17 22:50	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.4	%	0.10	0.10	1		11/27/17 16:37		

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-4 4-6 Lab ID: 40161276009 Collected: 11/21/17 15:30 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 23:13	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 23:13	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 23:13	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 23:13	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	99-87-6	W
Methylene Chloride	0.038J	mg/kg	0.068	0.028	1	11/29/17 07:30	12/01/17 23:13	75-09-2	
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 23:13	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	100-42-5	W

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: GP17-4 4-6 Lab ID: 40161276009 Collected: 11/21/17 15:30 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 23:13	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	79-00-5	W
Trichloroethene	0.40	mg/kg	0.068	0.028	1	11/29/17 07:30	12/01/17 23:13	79-01-6	
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 23:13	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 23:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	68-130		1	11/29/17 07:30	12/01/17 23:13	1868-53-7	
Toluene-d8 (S)	106	%	68-149		1	11/29/17 07:30	12/01/17 23:13	2037-26-5	
4-Bromofluorobenzene (S)	96	%	58-141		1	11/29/17 07:30	12/01/17 23:13	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.2	%	0.10	0.10	1		11/27/17 16:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE
Pace Project No.: 40161276

Sample: TRIP Lab ID: 40161276010 Collected: 11/21/17 00:00 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	11/29/17 07:30	12/01/17 19:45	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	11/29/17 07:30	12/01/17 19:45	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	11/29/17 07:30	12/01/17 19:45	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	11/29/17 07:30	12/01/17 19:45	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/04/17 14:45	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	11/29/17 07:30	12/01/17 19:45	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Sample: TRIP Lab ID: 40161276010 Collected: 11/21/17 00:00 Received: 11/22/17 07:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	11/29/17 07:30	12/01/17 19:45	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	11/29/17 07:30	12/01/17 19:45	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	11/29/17 07:30	12/01/17 19:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	68-130		1	11/29/17 07:30	12/01/17 19:45	1868-53-7	
Toluene-d8 (S)	90	%	68-149		1	11/29/17 07:30	12/01/17 19:45	2037-26-5	
4-Bromofluorobenzene (S)	92	%	58-141		1	11/29/17 07:30	12/01/17 19:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

QC Batch: 275597 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 40161276001, 40161276002, 40161276003, 40161276004, 40161276005, 40161276006, 40161276007, 40161276008, 40161276009, 40161276010

METHOD BLANK: 1620796 Matrix: Solid
 Associated Lab Samples: 40161276001, 40161276002, 40161276003, 40161276004, 40161276005, 40161276006, 40161276007, 40161276008, 40161276009, 40161276010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	12/01/17 17:02	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	12/01/17 17:02	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	12/01/17 17:02	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	12/01/17 17:02	
1,1-Dichloroethane	mg/kg	<0.018	0.050	12/01/17 17:02	
1,1-Dichloroethene	mg/kg	<0.018	0.050	12/01/17 17:02	
1,1-Dichloropropene	mg/kg	<0.014	0.050	12/01/17 17:02	
1,2,3-Trichlorobenzene	mg/kg	0.021J	0.050	12/01/17 17:02	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	12/01/17 17:02	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	12/01/17 17:02	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	12/01/17 17:02	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	12/01/17 17:02	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	12/01/17 17:02	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	12/01/17 17:02	
1,2-Dichloroethane	mg/kg	<0.015	0.050	12/01/17 17:02	
1,2-Dichloropropane	mg/kg	<0.017	0.050	12/01/17 17:02	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	12/01/17 17:02	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	12/01/17 17:02	
1,3-Dichloropropane	mg/kg	<0.012	0.050	12/01/17 17:02	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	12/01/17 17:02	
2,2-Dichloropropane	mg/kg	<0.013	0.050	12/01/17 17:02	
2-Chlorotoluene	mg/kg	<0.016	0.050	12/01/17 17:02	
4-Chlorotoluene	mg/kg	<0.013	0.050	12/01/17 17:02	
Benzene	mg/kg	<0.0092	0.020	12/01/17 17:02	
Bromobenzene	mg/kg	<0.021	0.050	12/01/17 17:02	
Bromochloromethane	mg/kg	<0.021	0.050	12/01/17 17:02	
Bromodichloromethane	mg/kg	<0.0098	0.050	12/01/17 17:02	
Bromoform	mg/kg	<0.020	0.050	12/01/17 17:02	
Bromomethane	mg/kg	<0.070	0.25	12/01/17 17:02	
Carbon tetrachloride	mg/kg	<0.012	0.050	12/01/17 17:02	
Chlorobenzene	mg/kg	<0.015	0.050	12/01/17 17:02	
Chloroethane	mg/kg	<0.067	0.25	12/01/17 17:02	
Chloroform	mg/kg	<0.046	0.25	12/01/17 17:02	
Chloromethane	mg/kg	<0.020	0.050	12/01/17 17:02	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	12/01/17 17:02	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	12/01/17 17:02	
Dibromochloromethane	mg/kg	<0.018	0.050	12/01/17 17:02	
Dibromomethane	mg/kg	<0.019	0.050	12/01/17 17:02	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	12/01/17 17:02	
Diisopropyl ether	mg/kg	<0.018	0.050	12/01/17 17:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

METHOD BLANK: 1620796

Matrix: Solid

Associated Lab Samples: 40161276001, 40161276002, 40161276003, 40161276004, 40161276005, 40161276006, 40161276007, 40161276008, 40161276009, 40161276010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.012	0.050	12/01/17 17:02	
Hexachloro-1,3-butadiene	mg/kg	0.065	0.050	12/01/17 17:02	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	12/01/17 17:02	
m&p-Xylene	mg/kg	<0.034	0.10	12/01/17 17:02	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	12/01/17 17:02	
Methylene Chloride	mg/kg	0.020J	0.050	12/01/17 17:02	
n-Butylbenzene	mg/kg	0.027J	0.050	12/01/17 17:02	
n-Propylbenzene	mg/kg	<0.012	0.050	12/01/17 17:02	
Naphthalene	mg/kg	<0.040	0.25	12/01/17 17:02	
o-Xylene	mg/kg	<0.014	0.050	12/01/17 17:02	
p-Isopropyltoluene	mg/kg	<0.012	0.050	12/01/17 17:02	
sec-Butylbenzene	mg/kg	0.012J	0.050	12/01/17 17:02	
Styrene	mg/kg	<0.0090	0.050	12/01/17 17:02	
tert-Butylbenzene	mg/kg	<0.0095	0.050	12/01/17 17:02	
Tetrachloroethene	mg/kg	<0.013	0.050	12/01/17 17:02	
Toluene	mg/kg	<0.011	0.050	12/01/17 17:02	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	12/01/17 17:02	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	12/01/17 17:02	
Trichloroethene	mg/kg	<0.024	0.050	12/01/17 17:02	
Trichlorofluoromethane	mg/kg	<0.025	0.050	12/01/17 17:02	
Vinyl chloride	mg/kg	<0.021	0.050	12/01/17 17:02	
4-Bromofluorobenzene (S)	%	92	58-141	12/01/17 17:02	
Dibromofluoromethane (S)	%	98	68-130	12/01/17 17:02	
Toluene-d8 (S)	%	97	68-149	12/01/17 17:02	

LABORATORY CONTROL SAMPLE: 1620797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.4	97	61-122	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.7	109	73-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.6	105	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.6	104	63-124	
1,1-Dichloroethene	mg/kg	2.5	2.3	91	53-117	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.5	99	78-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.8	111	49-140	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.7	109	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.6	103	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.6	104	56-135	
1,2-Dichloropropane	mg/kg	2.5	2.6	104	77-122	
1,3-Dichlorobenzene	mg/kg	2.5	2.5	100	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	101	70-130	
Benzene	mg/kg	2.5	2.6	103	66-130	
Bromodichloromethane	mg/kg	2.5	2.5	98	62-135	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

LABORATORY CONTROL SAMPLE: 1620797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	mg/kg	2.5	2.3	91	68-130	
Bromomethane	mg/kg	2.5	2.1	85	29-137	
Carbon tetrachloride	mg/kg	2.5	2.5	99	57-130	
Chlorobenzene	mg/kg	2.5	2.6	103	70-130	
Chloroethane	mg/kg	2.5	2.3	93	36-144	
Chloroform	mg/kg	2.5	2.6	102	69-115	
Chloromethane	mg/kg	2.5	1.7	68	32-126	
cis-1,2-Dichloroethene	mg/kg	2.5	2.4	97	65-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.6	102	70-130	
Dibromochloromethane	mg/kg	2.5	2.6	104	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.3	53	10-99	
Ethylbenzene	mg/kg	2.5	2.6	106	82-122	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.7	109	70-130	
m&p-Xylene	mg/kg	5	5.2	104	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.6	104	63-134	
Methylene Chloride	mg/kg	2.5	2.4	97	56-123	
o-Xylene	mg/kg	2.5	2.6	106	70-130	
Styrene	mg/kg	2.5	2.7	109	70-130	
Tetrachloroethene	mg/kg	2.5	2.5	100	70-131	
Toluene	mg/kg	2.5	2.5	100	80-120	
trans-1,2-Dichloroethene	mg/kg	2.5	2.4	97	66-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.6	104	68-130	
Trichloroethene	mg/kg	2.5	2.5	101	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.3	92	37-149	
Vinyl chloride	mg/kg	2.5	2.0	80	43-128	
4-Bromofluorobenzene (S)	%			93	58-141	
Dibromofluoromethane (S)	%			96	68-130	
Toluene-d8 (S)	%			95	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620798 1620799

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40161276002 Result	Spike Conc.	Spike Conc.	Result							
1,1,1-Trichloroethane	mg/kg	<0.025	1.3	1.3	1.2	1.3	89	93	57-123	4	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.3	1.3	1.6	1.6	113	118	73-135	4	20	
1,1,2-Trichloroethane	mg/kg	<0.025	1.3	1.3	1.5	1.5	112	111	70-130	1	20	
1,1-Dichloroethane	mg/kg	<0.025	1.3	1.3	1.4	1.4	101	104	63-124	3	20	
1,1-Dichloroethene	mg/kg	<0.025	1.3	1.3	1.1	1.2	81	86	48-117	6	23	
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.3	1.3	1.5	1.5	111	109	78-145	2	20	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.3	1.3	1.5	1.6	111	113	38-168	1	22	
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.3	1.3	1.5	1.5	111	110	70-130	1	20	
1,2-Dichlorobenzene	mg/kg	<0.025	1.3	1.3	1.5	1.5	106	110	70-130	4	20	
1,2-Dichloroethane	mg/kg	<0.025	1.3	1.3	1.4	1.5	103	106	56-145	2	20	
1,2-Dichloropropane	mg/kg	<0.025	1.3	1.3	1.5	1.5	107	107	77-123	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620798		1620799		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40161276002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,3-Dichlorobenzene	mg/kg	<0.025	1.3	1.3	1.4	1.5	104	106	70-130	2	20		
1,4-Dichlorobenzene	mg/kg	<0.025	1.3	1.3	1.5	1.5	105	106	70-130	1	20		
Benzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	101	102	65-130	1	20		
Bromodichloromethane	mg/kg	<0.025	1.3	1.3	1.4	1.4	99	99	59-141	1	20		
Bromoform	mg/kg	<0.025	1.3	1.3	1.3	1.4	97	99	59-141	3	20		
Bromomethane	mg/kg	<0.070	1.3	1.3	1.1	1.1	78	79	28-139	1	20		
Carbon tetrachloride	mg/kg	<0.025	1.3	1.3	1.3	1.2	91	89	50-130	2	20		
Chlorobenzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	103	103	70-130	1	20		
Chloroethane	mg/kg	<0.067	1.3	1.3	1.2	1.2	87	88	36-144	1	20		
Chloroform	mg/kg	<0.046	1.3	1.3	1.4	1.4	101	103	68-122	2	20		
Chloromethane	mg/kg	<0.025	1.3	1.3	0.90	0.93	65	68	30-126	3	20		
cis-1,2-Dichloroethene	mg/kg	<0.025	1.3	1.3	1.4	1.3	98	95	63-130	3	20		
cis-1,3-Dichloropropene	mg/kg	<0.025	1.3	1.3	1.4	1.4	101	104	70-130	3	20		
Dibromochloromethane	mg/kg	<0.025	1.3	1.3	1.5	1.4	108	102	66-136	5	20		
Dichlorodifluoromethane	mg/kg	<0.025	1.3	1.3	0.60	0.60	44	43	10-99	1	33		
Ethylbenzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	104	103	80-122	1	20		
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.3	1.3	1.5	1.4	107	103	70-130	3	20		
m&p-Xylene	mg/kg	<0.050	2.8	2.8	2.9	2.8	106	101	70-130	5	20		
Methyl-tert-butyl ether	mg/kg	<0.025	1.3	1.3	1.4	1.5	103	110	63-134	7	20		
Methylene Chloride	mg/kg	0.041J	1.3	1.3	1.4	1.4	98	99	56-127	1	20		
o-Xylene	mg/kg	<0.025	1.3	1.3	1.4	1.4	104	101	70-130	2	20		
Styrene	mg/kg	<0.025	1.3	1.3	1.5	1.5	108	107	70-130	1	20		
Tetrachloroethene	mg/kg	<0.025	1.3	1.3	1.4	1.3	98	94	70-131	4	20		
Toluene	mg/kg	<0.025	1.3	1.3	1.4	1.4	100	98	80-120	2	20		
trans-1,2-Dichloroethene	mg/kg	<0.025	1.3	1.3	1.3	1.3	95	95	60-130	0	20		
trans-1,3-Dichloropropene	mg/kg	<0.025	1.3	1.3	1.5	1.4	106	105	68-130	1	20		
Trichloroethene	mg/kg	<0.025	1.3	1.3	1.4	1.3	99	97	70-130	2	20		
Trichlorofluoromethane	mg/kg	<0.025	1.3	1.3	1.2	1.1	84	79	37-149	6	24		
Vinyl chloride	mg/kg	<0.025	1.3	1.3	1.0	1.0	76	75	39-128	1	20		
4-Bromofluorobenzene (S)	%						102	98	58-141				
Dibromofluoromethane (S)	%						108	108	68-130				
Toluene-d8 (S)	%						109	106	68-149				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

QC Batch: 275337

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40161276001, 40161276002, 40161276003, 40161276004, 40161276005

SAMPLE DUPLICATE: 1619639

Parameter	Units	40161276004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	12.9	4	10	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

QC Batch: 275355

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40161276006, 40161276007, 40161276008, 40161276009

SAMPLE DUPLICATE: 1619735

Parameter	Units	40161140026 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.9	17.5	2	10	

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QUALIFIERS

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

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.

ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER KITZINGER SITE

Pace Project No.: 40161276

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161276001	GP17-1 (2-4)	EPA 5035/5030B	275597	EPA 8260	275598
40161276002	GP17-1 (35.5-36.0)	EPA 5035/5030B	275597	EPA 8260	275598
40161276003	GP17-2 2.4	EPA 5035/5030B	275597	EPA 8260	275598
40161276004	GP17-2 2.4-26	EPA 5035/5030B	275597	EPA 8260	275598
40161276005	GP17-2 40.42	EPA 5035/5030B	275597	EPA 8260	275598
40161276006	GP17-3 2.4	EPA 5035/5030B	275597	EPA 8260	275598
40161276007	GP17-3 14.16	EPA 5035/5030B	275597	EPA 8260	275598
40161276008	GP17-4 0-2	EPA 5035/5030B	275597	EPA 8260	275598
40161276009	GP17-4 4-6	EPA 5035/5030B	275597	EPA 8260	275598
40161276010	TRIP	EPA 5035/5030B	275597	EPA 8260	275598
40161276001	GP17-1 (2-4)	ASTM D2974-87	275337		
40161276002	GP17-1 (35.5-36.0)	ASTM D2974-87	275337		
40161276003	GP17-2 2.4	ASTM D2974-87	275337		
40161276004	GP17-2 2.4-26	ASTM D2974-87	275337		
40161276005	GP17-2 40.42	ASTM D2974-87	275337		
40161276006	GP17-3 2.4	ASTM D2974-87	275355		
40161276007	GP17-3 14.16	ASTM D2974-87	275355		
40161276008	GP17-4 0-2	ASTM D2974-87	275355		
40161276009	GP17-4 4-6	ASTM D2974-87	275355		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Key Engineering
Branch/Location: Milwaukee WI
Project Contact: Kurt McClung
Phone: 414-224-8300
Project Number: 414-224-8300
Project Name: former Kitzinger Site
Project State: WI

Sampled By (Print): Sachansu Ind
Sampled By (Sign): Sachansu Ind

PO #: Regulatory Program:

Data Package Options (billable)
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
A = Air
B = Bioa
C = Charcoal
O = Oil
S = Soil
SI = Sludge
W = Water
DW = Drinking Water
GW = Ground Water
SW = Surface Water
WP = Waste Water

Filtered? (YES/NO)
Preservation Codes
A=Name B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H= Sodium Bisulfate Solution I= Sodium Thiosulfate J= Other

CHAIN OF CUSTODY



UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4061276

V/I/N	Pick Letter	Analyses Requested
N	#	VOCs
N	A	Dry wt

FACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Relinquished By:	Relinquished By:	Relinquished By:	Relinquished By:	Received By:	Received By:	Received By:	Received By:	Relinquished By:	Relinquished By:	Relinquished By:	Relinquished By:	Relinquished By:	Relinquished By:	
001	GP17-1 (2-4)	11.21.17	11:30	SIL	Sachansu Ind	Sachansu Ind	CS Logistics	CS Logistics	11/22/17	11/21/17	11/21/17	11/21/17	CS Logistics	CS Logistics	CS Logistics	CS Logistics	CS Logistics	CS Logistics	CS Logistics
002	GP17-1 (35.5-36.0)		14:45	↓															
003	GP17-2 2.4		14:05	↓															
004	GP17.2 2.4-3.6		14:10	↓															
005	GP17.2 4.0-4.2		14:15	↓															
006	GP17-3 2.4		14:30	↓															
007	GP17.3 14.16		14:45	↓															
008	GP17-4 0-2		15:15	↓															
009	GP17-4 4-6		15:30	↓															
010	TRAP																		

Quote #:	
Mail To Contact:	Kurt McClung
Mail To Company:	Key Engineering
Mail To Address:	135 N Wabasha Milwaukee WI
Invoice To Contact:	Russie Haupt
Invoice To Company:	Key Engineering
Invoice To Address:	SNA
Invoice To Phone:	414-224-8300
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
	1-40mLV 1-40ppA

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Project # **WO#: 40161276**

Client Name: Key Eng.

Courier: Fed Ex UPS Client Pace Other: CS Logistics

Tracking #: 2810-112117



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: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 20 / Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 11-22-17
Initials: KR

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

Comments:

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 <input type="checkbox"/> N/A	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 <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>No MS/MSD vol</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	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 <input type="checkbox"/> N/A	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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>vialA no GIP in ID except 001, 004</u>
-Includes date/time/ID/Analysis Matrix:	<u>11/22/17</u>	<u>depth 24-26</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: KR for DR

Date: 11/22/17

Attachment 3

December 14, 2017

Kurt McClung
Key Engineering Group, LTD.
735 North Water Street
Milwaukee, WI 53202

RE: Project: FORMER KITZINGER SITE
Pace Project No.: 40162193

Dear Kurt McClung:

Enclosed are the analytical results for sample(s) received by the laboratory between December 09, 2017 and December 12, 2017. 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

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: FORMER KITZINGER SITE

Pace Project No.: 40162193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162193001	KMW2	Water	12/07/17 15:58	12/09/17 08:30
40162193002	KMW3	Water	12/08/17 07:38	12/09/17 08:30
40162193003	KPZ2	Water	12/08/17 08:26	12/09/17 08:30
40162193004	KPZ1	Water	12/08/17 09:06	12/09/17 08:30
40162193005	SMW4	Water	12/08/17 09:47	12/09/17 08:30
40162193006	SPM4	Water	12/08/17 10:33	12/09/17 08:30
40162193007	MW14	Water	12/08/17 12:45	12/09/17 08:30
40162193008	DUPLICATE	Water	12/08/17 00:00	12/09/17 08:30
40162193009	TRIP	Water	12/08/17 00:00	12/09/17 08:30
40162193010	KMW4	Water	12/08/17 07:51	12/09/17 08:30
40162193011	DUP2	Water	12/08/17 00:00	12/09/17 08:30
40162259001	MW8	Water	12/08/17 12:12	12/12/17 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40162193001	KMW2	EPA 8260	HNW	64
40162193002	KMW3	EPA 8260	HNW	64
40162193003	KPZ2	EPA 8260	HNW	64
40162193004	KPZ1	EPA 8260	HNW	64
40162193005	SMW4	EPA 8260	HNW	64
40162193006	SPM4	EPA 8260	HNW	64
40162193007	MW14	EPA 8260	HNW	64
40162193008	DUPLICATE	EPA 8260	HNW	64
40162193009	TRIP	EPA 8260	MDS	64
40162193010	KMW4	EPA 8260	HNW	64
40162193011	DUP2	EPA 8260	HNW	64
40162259001	MW8	EPA 8260	LAP	64

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40162193001	KMW2					
EPA 8260	Toluene	0.55J	ug/L	1.0	12/12/17 12:59	
40162193005	SMW4					
EPA 8260	Benzene	5.4	ug/L	2.5	12/12/17 14:05	
EPA 8260	n-Butylbenzene	8.2	ug/L	2.5	12/12/17 14:05	
EPA 8260	sec-Butylbenzene	5.5J	ug/L	12.5	12/12/17 14:05	
EPA 8260	tert-Butylbenzene	0.45J	ug/L	2.5	12/12/17 14:05	
EPA 8260	Chloroethane	64.6	ug/L	2.5	12/12/17 14:05	
EPA 8260	1,1-Dichloroethane	52.2	ug/L	2.5	12/12/17 14:05	
EPA 8260	1,2-Dichloroethane	14.3	ug/L	2.5	12/12/17 14:05	
EPA 8260	cis-1,2-Dichloroethene	15.2	ug/L	2.5	12/12/17 14:05	
EPA 8260	Ethylbenzene	48.4	ug/L	2.5	12/12/17 14:05	
EPA 8260	Isopropylbenzene (Cumene)	11.7	ug/L	2.5	12/12/17 14:05	
EPA 8260	p-Isopropyltoluene	5.2	ug/L	2.5	12/12/17 14:05	
EPA 8260	Methylene Chloride	1.3J	ug/L	2.5	12/12/17 14:05	
EPA 8260	Naphthalene	60.3	ug/L	12.5	12/12/17 14:05	
EPA 8260	n-Propylbenzene	16.0	ug/L	2.5	12/12/17 14:05	
EPA 8260	1,1,1-Trichloroethane	3.5	ug/L	2.5	12/12/17 14:05	
EPA 8260	Trichloroethene	10.9	ug/L	2.5	12/12/17 14:05	
EPA 8260	1,2,4-Trimethylbenzene	91.7	ug/L	2.5	12/12/17 14:05	
EPA 8260	1,3,5-Trimethylbenzene	11.7	ug/L	2.5	12/12/17 14:05	
EPA 8260	Vinyl chloride	6.0	ug/L	2.5	12/12/17 14:05	
EPA 8260	m&p-Xylene	222	ug/L	5.0	12/12/17 14:05	
EPA 8260	o-Xylene	2.3J	ug/L	2.5	12/12/17 14:05	
40162193006	SPM4					
EPA 8260	1,1-Dichloroethane	11100	ug/L	2000	12/12/17 13:21	
EPA 8260	cis-1,2-Dichloroethene	134000	ug/L	2000	12/12/17 13:21	
EPA 8260	trans-1,2-Dichloroethene	1570J	ug/L	2000	12/12/17 13:21	
EPA 8260	Ethylbenzene	1830J	ug/L	2000	12/12/17 13:21	
EPA 8260	Toluene	14400	ug/L	2000	12/12/17 13:21	
EPA 8260	1,1,1-Trichloroethane	52700	ug/L	2000	12/12/17 13:21	
EPA 8260	Vinyl chloride	10600	ug/L	2000	12/12/17 13:21	
EPA 8260	m&p-Xylene	4620	ug/L	4000	12/12/17 13:21	
EPA 8260	o-Xylene	1930J	ug/L	2000	12/12/17 13:21	
40162193007	MW14					
EPA 8260	1,1-Dichloroethane	14.7	ug/L	1.0	12/12/17 17:21	
EPA 8260	cis-1,2-Dichloroethene	4.8	ug/L	1.0	12/12/17 17:21	
EPA 8260	Ethylbenzene	0.57J	ug/L	1.0	12/12/17 17:21	
EPA 8260	Tetrachloroethene	4.1	ug/L	1.0	12/12/17 17:21	
EPA 8260	Toluene	1.0	ug/L	1.0	12/12/17 17:21	
EPA 8260	1,1,1-Trichloroethane	20.0	ug/L	1.0	12/12/17 17:21	
EPA 8260	Trichloroethene	97.2	ug/L	1.0	12/12/17 17:21	
EPA 8260	1,2,4-Trimethylbenzene	0.94J	ug/L	1.0	12/12/17 17:21	
EPA 8260	m&p-Xylene	2.4	ug/L	2.0	12/12/17 17:21	
EPA 8260	o-Xylene	1.2	ug/L	1.0	12/12/17 17:21	

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SUMMARY OF DETECTION

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40162193010	KMW4					
EPA 8260	cis-1,2-Dichloroethene	3.0	ug/L	1.0	12/12/17 18:05	
EPA 8260	trans-1,2-Dichloroethene	0.61J	ug/L	1.0	12/12/17 18:05	
EPA 8260	Trichloroethene	0.98J	ug/L	1.0	12/12/17 18:05	
EPA 8260	Vinyl chloride	6.5	ug/L	1.0	12/12/17 18:05	
40162193011	DUP2					
EPA 8260	Benzene	6.6	ug/L	1.0	12/13/17 10:22	
EPA 8260	n-Butylbenzene	10	ug/L	1.0	12/13/17 10:22	
EPA 8260	sec-Butylbenzene	6.2	ug/L	5.0	12/13/17 10:22	
EPA 8260	tert-Butylbenzene	0.56J	ug/L	1.0	12/13/17 10:22	
EPA 8260	Chloroethane	57.3	ug/L	1.0	12/13/17 10:22	
EPA 8260	1,1-Dichloroethane	48.9	ug/L	1.0	12/13/17 10:22	
EPA 8260	1,2-Dichloroethane	19.0	ug/L	1.0	12/13/17 10:22	
EPA 8260	cis-1,2-Dichloroethene	15.9	ug/L	1.0	12/13/17 10:22	
EPA 8260	trans-1,2-Dichloroethene	0.48J	ug/L	1.0	12/13/17 10:22	
EPA 8260	Ethylbenzene	55.3	ug/L	1.0	12/13/17 10:22	
EPA 8260	Isopropylbenzene (Cumene)	14.1	ug/L	1.0	12/13/17 10:22	
EPA 8260	p-Isopropyltoluene	5.9	ug/L	1.0	12/13/17 10:22	
EPA 8260	Methylene Chloride	1.0J	ug/L	1.0	12/13/17 10:22	
EPA 8260	Naphthalene	56.2	ug/L	5.0	12/13/17 10:22	
EPA 8260	n-Propylbenzene	19.2	ug/L	1.0	12/13/17 10:22	
EPA 8260	Tetrachloroethene	1.0	ug/L	1.0	12/13/17 10:22	
EPA 8260	1,1,1-Trichloroethane	3.9	ug/L	1.0	12/13/17 10:22	
EPA 8260	Trichloroethene	13.9	ug/L	1.0	12/13/17 10:22	
EPA 8260	1,2,4-Trimethylbenzene	120	ug/L	1.0	12/13/17 10:22	
EPA 8260	1,3,5-Trimethylbenzene	20.6	ug/L	1.0	12/13/17 10:22	
EPA 8260	Vinyl chloride	6.1	ug/L	1.0	12/13/17 10:22	
EPA 8260	m&p-Xylene	259	ug/L	2.0	12/13/17 10:22	
EPA 8260	o-Xylene	2.9	ug/L	1.0	12/13/17 10:22	
40162259001	MW8					
EPA 8260	Chloroethane	131	ug/L	20.0	12/14/17 09:29	
EPA 8260	1,1-Dichloroethane	831	ug/L	20.0	12/14/17 09:29	
EPA 8260	1,2-Dichloroethane	61.0	ug/L	20.0	12/14/17 09:29	
EPA 8260	cis-1,2-Dichloroethene	1760	ug/L	20.0	12/14/17 09:29	
EPA 8260	trans-1,2-Dichloroethene	49.5	ug/L	20.0	12/14/17 09:29	
EPA 8260	Ethylbenzene	216	ug/L	20.0	12/14/17 09:29	
EPA 8260	Isopropylbenzene (Cumene)	5.5J	ug/L	20.0	12/14/17 09:29	
EPA 8260	Toluene	425	ug/L	20.0	12/14/17 09:29	
EPA 8260	1,1,1-Trichloroethane	104	ug/L	20.0	12/14/17 09:29	
EPA 8260	Trichloroethene	8.5J	ug/L	20.0	12/14/17 09:29	
EPA 8260	1,2,4-Trimethylbenzene	82.7	ug/L	20.0	12/14/17 09:29	
EPA 8260	1,3,5-Trimethylbenzene	25.1	ug/L	20.0	12/14/17 09:29	
EPA 8260	Vinyl chloride	2500	ug/L	20.0	12/14/17 09:29	
EPA 8260	m&p-Xylene	765	ug/L	40.0	12/14/17 09:29	
EPA 8260	o-Xylene	262	ug/L	20.0	12/14/17 09:29	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KMW2 **Lab ID: 40162193001** Collected: 12/07/17 15:58 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 12:59	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 12:59	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 12:59	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 12:59	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 12:59	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 12:59	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 12:59	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 12:59	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 12:59	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 12:59	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 12:59	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 12:59	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 12:59	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 12:59	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 12:59	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 12:59	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 12:59	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 12:59	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 12:59	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 12:59	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 12:59	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 12:59	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 12:59	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 12:59	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 12:59	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 12:59	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 12:59	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KMW2 **Lab ID: 40162193001** Collected: 12/07/17 15:58 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 12:59	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	127-18-4	
Toluene	0.55J	ug/L	1.0	0.50	1		12/12/17 12:59	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 12:59	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 12:59	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 12:59	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/12/17 12:59	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 12:59	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 12:59	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 12:59	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 12:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/12/17 12:59	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/12/17 12:59	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/12/17 12:59	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: **KMW3** Lab ID: **40162193002** Collected: 12/08/17 07:38 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 16:16	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 16:16	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 16:16	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 16:16	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 16:16	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 16:16	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 16:16	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 16:16	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 16:16	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 16:16	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 16:16	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 16:16	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 16:16	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 16:16	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 16:16	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 16:16	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 16:16	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 16:16	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 16:16	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 16:16	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 16:16	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 16:16	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 16:16	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 16:16	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 16:16	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 16:16	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 16:16	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KMW3 **Lab ID: 40162193002** Collected: 12/08/17 07:38 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 16:16	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 16:16	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 16:16	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 16:16	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/12/17 16:16	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 16:16	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 16:16	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 16:16	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		12/12/17 16:16	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		12/12/17 16:16	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/12/17 16:16	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: **KPZ2** Lab ID: **40162193003** Collected: 12/08/17 08:26 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 16:38	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 16:38	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 16:38	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 16:38	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 16:38	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 16:38	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 16:38	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 16:38	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 16:38	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 16:38	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 16:38	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 16:38	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 16:38	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 16:38	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 16:38	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 16:38	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 16:38	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 16:38	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 16:38	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 16:38	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 16:38	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 16:38	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 16:38	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 16:38	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 16:38	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 16:38	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KPZ2 **Lab ID: 40162193003** Collected: 12/08/17 08:26 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 16:38	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 16:38	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 16:38	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 16:38	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/12/17 16:38	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 16:38	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 16:38	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 16:38	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		12/12/17 16:38	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		12/12/17 16:38	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/12/17 16:38	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KPZ1 **Lab ID: 40162193004** Collected: 12/08/17 09:06 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 17:00	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 17:00	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 17:00	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 17:00	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 17:00	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 17:00	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 17:00	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 17:00	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 17:00	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 17:00	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 17:00	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 17:00	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 17:00	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 17:00	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 17:00	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 17:00	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 17:00	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 17:00	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 17:00	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 17:00	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 17:00	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 17:00	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 17:00	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 17:00	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 17:00	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 17:00	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KPZ1 **Lab ID: 40162193004** Collected: 12/08/17 09:06 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 17:00	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 17:00	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 17:00	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 17:00	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/12/17 17:00	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 17:00	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 17:00	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 17:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/12/17 17:00	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/12/17 17:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/12/17 17:00	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: **SMW4** Lab ID: **40162193005** Collected: 12/08/17 09:47 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	5.4	ug/L	2.5	1.2	2.5		12/12/17 14:05	71-43-2	
Bromobenzene	<0.58	ug/L	2.5	0.58	2.5		12/12/17 14:05	108-86-1	
Bromochloromethane	<0.85	ug/L	2.5	0.85	2.5		12/12/17 14:05	74-97-5	
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		12/12/17 14:05	74-83-9	
n-Butylbenzene	8.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	104-51-8	
sec-Butylbenzene	5.5J	ug/L	12.5	5.5	2.5		12/12/17 14:05	135-98-8	
tert-Butylbenzene	0.45J	ug/L	2.5	0.45	2.5		12/12/17 14:05	98-06-6	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	108-90-7	
Chloroethane	64.6	ug/L	2.5	0.94	2.5		12/12/17 14:05	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		12/12/17 14:05	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	74-87-3	
2-Chlorotoluene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	95-49-8	
4-Chlorotoluene	<0.53	ug/L	2.5	0.53	2.5		12/12/17 14:05	106-43-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		12/12/17 14:05	96-12-8	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		12/12/17 14:05	106-93-4	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		12/12/17 14:05	74-95-3	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	95-50-1	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	106-46-7	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		12/12/17 14:05	75-71-8	
1,1-Dichloroethane	52.2	ug/L	2.5	0.60	2.5		12/12/17 14:05	75-34-3	
1,2-Dichloroethane	14.3	ug/L	2.5	0.42	2.5		12/12/17 14:05	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	2.5	1.0	2.5		12/12/17 14:05	75-35-4	
cis-1,2-Dichloroethene	15.2	ug/L	2.5	0.64	2.5		12/12/17 14:05	156-59-2	
trans-1,2-Dichloroethene	<0.64	ug/L	2.5	0.64	2.5		12/12/17 14:05	156-60-5	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		12/12/17 14:05	78-87-5	
1,3-Dichloropropane	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	142-28-9	
2,2-Dichloropropane	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	594-20-7	
1,1-Dichloropropene	<1.1	ug/L	2.5	1.1	2.5		12/12/17 14:05	563-58-6	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	10061-01-5	
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		12/12/17 14:05	10061-02-6	
Diisopropyl ether	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	108-20-3	
Ethylbenzene	48.4	ug/L	2.5	1.2	2.5		12/12/17 14:05	100-41-4	
Hexachloro-1,3-butadiene	<5.3	ug/L	12.5	5.3	2.5		12/12/17 14:05	87-68-3	
Isopropylbenzene (Cumene)	11.7	ug/L	2.5	0.36	2.5		12/12/17 14:05	98-82-8	
p-Isopropyltoluene	5.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	99-87-6	
Methylene Chloride	1.3J	ug/L	2.5	0.58	2.5		12/12/17 14:05	75-09-2	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		12/12/17 14:05	1634-04-4	
Naphthalene	60.3	ug/L	12.5	6.2	2.5		12/12/17 14:05	91-20-3	
n-Propylbenzene	16.0	ug/L	2.5	1.2	2.5		12/12/17 14:05	103-65-1	
Styrene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	2.5	0.45	2.5		12/12/17 14:05	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: SMW4 **Lab ID: 40162193005** Collected: 12/08/17 09:47 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.62	ug/L	2.5	0.62	2.5		12/12/17 14:05	79-34-5	
Tetrachloroethene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	127-18-4	
Toluene	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	108-88-3	
1,2,3-Trichlorobenzene	<5.3	ug/L	12.5	5.3	2.5		12/12/17 14:05	87-61-6	
1,2,4-Trichlorobenzene	<5.5	ug/L	12.5	5.5	2.5		12/12/17 14:05	120-82-1	
1,1,1-Trichloroethane	3.5	ug/L	2.5	1.2	2.5		12/12/17 14:05	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		12/12/17 14:05	79-00-5	
Trichloroethene	10.9	ug/L	2.5	0.83	2.5		12/12/17 14:05	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		12/12/17 14:05	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	2.5	1.2	2.5		12/12/17 14:05	96-18-4	
1,2,4-Trimethylbenzene	91.7	ug/L	2.5	1.2	2.5		12/12/17 14:05	95-63-6	
1,3,5-Trimethylbenzene	11.7	ug/L	2.5	1.2	2.5		12/12/17 14:05	108-67-8	
Vinyl chloride	6.0	ug/L	2.5	0.44	2.5		12/12/17 14:05	75-01-4	
m&p-Xylene	222	ug/L	5.0	2.5	2.5		12/12/17 14:05	179601-23-1	
o-Xylene	2.3J	ug/L	2.5	1.2	2.5		12/12/17 14:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		2.5		12/12/17 14:05	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		2.5		12/12/17 14:05	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2.5		12/12/17 14:05	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: SPM4 Lab ID: 40162193006 Collected: 12/08/17 10:33 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	71-43-2	
Bromobenzene	<460	ug/L	2000	460	2000		12/12/17 13:21	108-86-1	
Bromochloromethane	<681	ug/L	2000	681	2000		12/12/17 13:21	74-97-5	
Bromodichloromethane	<1000	ug/L	2000	1000	2000		12/12/17 13:21	75-27-4	
Bromoform	<1000	ug/L	2000	1000	2000		12/12/17 13:21	75-25-2	
Bromomethane	<4870	ug/L	10000	4870	2000		12/12/17 13:21	74-83-9	
n-Butylbenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	104-51-8	
sec-Butylbenzene	<4370	ug/L	10000	4370	2000		12/12/17 13:21	135-98-8	
tert-Butylbenzene	<361	ug/L	2000	361	2000		12/12/17 13:21	98-06-6	
Carbon tetrachloride	<1000	ug/L	2000	1000	2000		12/12/17 13:21	56-23-5	
Chlorobenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	108-90-7	
Chloroethane	<749	ug/L	2000	749	2000		12/12/17 13:21	75-00-3	
Chloroform	<5000	ug/L	10000	5000	2000		12/12/17 13:21	67-66-3	
Chloromethane	<1000	ug/L	2000	1000	2000		12/12/17 13:21	74-87-3	
2-Chlorotoluene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	95-49-8	
4-Chlorotoluene	<427	ug/L	2000	427	2000		12/12/17 13:21	106-43-4	
1,2-Dibromo-3-chloropropane	<4330	ug/L	10000	4330	2000		12/12/17 13:21	96-12-8	
Dibromochloromethane	<1000	ug/L	2000	1000	2000		12/12/17 13:21	124-48-1	
1,2-Dibromoethane (EDB)	<356	ug/L	2000	356	2000		12/12/17 13:21	106-93-4	
Dibromomethane	<853	ug/L	2000	853	2000		12/12/17 13:21	74-95-3	
1,2-Dichlorobenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	95-50-1	
1,3-Dichlorobenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	541-73-1	
1,4-Dichlorobenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	106-46-7	
Dichlorodifluoromethane	<448	ug/L	2000	448	2000		12/12/17 13:21	75-71-8	
1,1-Dichloroethane	11100	ug/L	2000	483	2000		12/12/17 13:21	75-34-3	
1,2-Dichloroethane	<336	ug/L	2000	336	2000		12/12/17 13:21	107-06-2	
1,1-Dichloroethene	<820	ug/L	2000	820	2000		12/12/17 13:21	75-35-4	
cis-1,2-Dichloroethene	134000	ug/L	2000	512	2000		12/12/17 13:21	156-59-2	
trans-1,2-Dichloroethene	1570J	ug/L	2000	513	2000		12/12/17 13:21	156-60-5	
1,2-Dichloropropane	<466	ug/L	2000	466	2000		12/12/17 13:21	78-87-5	
1,3-Dichloropropane	<1000	ug/L	2000	1000	2000		12/12/17 13:21	142-28-9	
2,2-Dichloropropane	<968	ug/L	2000	968	2000		12/12/17 13:21	594-20-7	
1,1-Dichloropropene	<882	ug/L	2000	882	2000		12/12/17 13:21	563-58-6	
cis-1,3-Dichloropropene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	10061-01-5	
trans-1,3-Dichloropropene	<459	ug/L	2000	459	2000		12/12/17 13:21	10061-02-6	
Diisopropyl ether	<1000	ug/L	2000	1000	2000		12/12/17 13:21	108-20-3	
Ethylbenzene	1830J	ug/L	2000	1000	2000		12/12/17 13:21	100-41-4	
Hexachloro-1,3-butadiene	<4210	ug/L	10000	4210	2000		12/12/17 13:21	87-68-3	
Isopropylbenzene (Cumene)	<287	ug/L	2000	287	2000		12/12/17 13:21	98-82-8	
p-Isopropyltoluene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	99-87-6	
Methylene Chloride	<465	ug/L	2000	465	2000		12/12/17 13:21	75-09-2	
Methyl-tert-butyl ether	<348	ug/L	2000	348	2000		12/12/17 13:21	1634-04-4	
Naphthalene	<5000	ug/L	10000	5000	2000		12/12/17 13:21	91-20-3	
n-Propylbenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	103-65-1	
Styrene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	100-42-5	
1,1,1,2-Tetrachloroethane	<361	ug/L	2000	361	2000		12/12/17 13:21	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: SPM4 **Lab ID: 40162193006** Collected: 12/08/17 10:33 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<499	ug/L	2000	499	2000		12/12/17 13:21	79-34-5	
Tetrachloroethene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	127-18-4	
Toluene	14400	ug/L	2000	1000	2000		12/12/17 13:21	108-88-3	
1,2,3-Trichlorobenzene	<4270	ug/L	10000	4270	2000		12/12/17 13:21	87-61-6	
1,2,4-Trichlorobenzene	<4420	ug/L	10000	4420	2000		12/12/17 13:21	120-82-1	
1,1,1-Trichloroethane	52700	ug/L	2000	1000	2000		12/12/17 13:21	71-55-6	
1,1,2-Trichloroethane	<395	ug/L	2000	395	2000		12/12/17 13:21	79-00-5	
Trichloroethene	<661	ug/L	2000	661	2000		12/12/17 13:21	79-01-6	
Trichlorofluoromethane	<370	ug/L	2000	370	2000		12/12/17 13:21	75-69-4	
1,2,3-Trichloropropane	<1000	ug/L	2000	1000	2000		12/12/17 13:21	96-18-4	
1,2,4-Trimethylbenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	95-63-6	
1,3,5-Trimethylbenzene	<1000	ug/L	2000	1000	2000		12/12/17 13:21	108-67-8	
Vinyl chloride	10600	ug/L	2000	351	2000		12/12/17 13:21	75-01-4	
m&p-Xylene	4620	ug/L	4000	2000	2000		12/12/17 13:21	179601-23-1	
o-Xylene	1930J	ug/L	2000	1000	2000		12/12/17 13:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		2000		12/12/17 13:21	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		2000		12/12/17 13:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2000		12/12/17 13:21	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: MW14 Lab ID: 40162193007 Collected: 12/08/17 12:45 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 17:21	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 17:21	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 17:21	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 17:21	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 17:21	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 17:21	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 17:21	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 17:21	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 17:21	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 17:21	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 17:21	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 17:21	75-71-8	
1,1-Dichloroethane	14.7	ug/L	1.0	0.24	1		12/12/17 17:21	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 17:21	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 17:21	75-35-4	
cis-1,2-Dichloroethene	4.8	ug/L	1.0	0.26	1		12/12/17 17:21	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 17:21	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 17:21	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 17:21	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 17:21	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 17:21	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	108-20-3	
Ethylbenzene	0.57J	ug/L	1.0	0.50	1		12/12/17 17:21	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 17:21	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 17:21	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 17:21	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 17:21	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 17:21	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 17:21	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: MW14 **Lab ID: 40162193007** Collected: 12/08/17 12:45 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 17:21	79-34-5	
Tetrachloroethene	4.1	ug/L	1.0	0.50	1		12/12/17 17:21	127-18-4	
Toluene	1.0	ug/L	1.0	0.50	1		12/12/17 17:21	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 17:21	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 17:21	120-82-1	
1,1,1-Trichloroethane	20.0	ug/L	1.0	0.50	1		12/12/17 17:21	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 17:21	79-00-5	
Trichloroethene	97.2	ug/L	1.0	0.33	1		12/12/17 17:21	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 17:21	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	96-18-4	
1,2,4-Trimethylbenzene	0.94J	ug/L	1.0	0.50	1		12/12/17 17:21	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:21	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 17:21	75-01-4	
m&p-Xylene	2.4	ug/L	2.0	1.0	1		12/12/17 17:21	179601-23-1	
o-Xylene	1.2	ug/L	1.0	0.50	1		12/12/17 17:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		12/12/17 17:21	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		12/12/17 17:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/12/17 17:21	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: **DUPLICATE** Lab ID: **40162193008** Collected: 12/08/17 00:00 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 17:43	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 17:43	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 17:43	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 17:43	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 17:43	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 17:43	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 17:43	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 17:43	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 17:43	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 17:43	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 17:43	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 17:43	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 17:43	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 17:43	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 17:43	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 17:43	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 17:43	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 17:43	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 17:43	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 17:43	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 17:43	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 17:43	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 17:43	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 17:43	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 17:43	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 17:43	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: DUPLICATE **Lab ID: 40162193008** Collected: 12/08/17 00:00 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 17:43	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 17:43	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 17:43	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 17:43	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/12/17 17:43	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 17:43	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 17:43	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 17:43	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 17:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/12/17 17:43	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/12/17 17:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/12/17 17:43	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: TRIP **Lab ID: 40162193009** Collected: 12/08/17 00:00 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 16:42	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 16:42	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 16:42	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 16:42	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 16:42	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 16:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 16:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 16:42	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 16:42	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 16:42	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 16:42	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 16:42	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 16:42	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 16:42	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 16:42	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/12/17 16:42	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 16:42	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 16:42	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 16:42	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 16:42	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 16:42	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 16:42	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 16:42	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 16:42	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 16:42	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 16:42	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: TRIP **Lab ID:** 40162193009 Collected: 12/08/17 00:00 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 16:42	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 16:42	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 16:42	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 16:42	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/12/17 16:42	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 16:42	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/12/17 16:42	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 16:42	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 16:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/12/17 16:42	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/12/17 16:42	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/12/17 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KMW4 **Lab ID: 40162193010** Collected: 12/08/17 07:51 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/12/17 18:05	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/12/17 18:05	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/12/17 18:05	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 18:05	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		12/12/17 18:05	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		12/12/17 18:05	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/12/17 18:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/12/17 18:05	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/12/17 18:05	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/12/17 18:05	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/12/17 18:05	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/12/17 18:05	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/12/17 18:05	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/17 18:05	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/12/17 18:05	75-35-4	
cis-1,2-Dichloroethene	3.0	ug/L	1.0	0.26	1		12/12/17 18:05	156-59-2	
trans-1,2-Dichloroethene	0.61J	ug/L	1.0	0.26	1		12/12/17 18:05	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/12/17 18:05	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/12/17 18:05	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/12/17 18:05	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/12/17 18:05	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/12/17 18:05	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		12/12/17 18:05	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		12/12/17 18:05	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/12/17 18:05	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		12/12/17 18:05	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/12/17 18:05	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: KMW4 **Lab ID: 40162193010** Collected: 12/08/17 07:51 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/12/17 18:05	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/12/17 18:05	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/12/17 18:05	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/12/17 18:05	79-00-5	
Trichloroethene	0.98J	ug/L	1.0	0.33	1		12/12/17 18:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/12/17 18:05	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	108-67-8	
Vinyl chloride	6.5	ug/L	1.0	0.18	1		12/12/17 18:05	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		12/12/17 18:05	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		12/12/17 18:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/12/17 18:05	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		12/12/17 18:05	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/12/17 18:05	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: DUP2 Lab ID: 40162193011 Collected: 12/08/17 00:00 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	6.6	ug/L	1.0	0.50	1		12/13/17 10:22	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		12/13/17 10:22	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		12/13/17 10:22	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		12/13/17 10:22	74-83-9	
n-Butylbenzene	10	ug/L	1.0	0.50	1		12/13/17 10:22	104-51-8	
sec-Butylbenzene	6.2	ug/L	5.0	2.2	1		12/13/17 10:22	135-98-8	
tert-Butylbenzene	0.56J	ug/L	1.0	0.18	1		12/13/17 10:22	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	108-90-7	
Chloroethane	57.3	ug/L	1.0	0.37	1		12/13/17 10:22	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		12/13/17 10:22	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		12/13/17 10:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		12/13/17 10:22	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		12/13/17 10:22	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		12/13/17 10:22	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		12/13/17 10:22	75-71-8	
1,1-Dichloroethane	48.9	ug/L	1.0	0.24	1		12/13/17 10:22	75-34-3	
1,2-Dichloroethane	19.0	ug/L	1.0	0.17	1		12/13/17 10:22	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/13/17 10:22	75-35-4	
cis-1,2-Dichloroethene	15.9	ug/L	1.0	0.26	1		12/13/17 10:22	156-59-2	
trans-1,2-Dichloroethene	0.48J	ug/L	1.0	0.26	1		12/13/17 10:22	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		12/13/17 10:22	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		12/13/17 10:22	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		12/13/17 10:22	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		12/13/17 10:22	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	108-20-3	
Ethylbenzene	55.3	ug/L	1.0	0.50	1		12/13/17 10:22	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		12/13/17 10:22	87-68-3	
Isopropylbenzene (Cumene)	14.1	ug/L	1.0	0.14	1		12/13/17 10:22	98-82-8	
p-Isopropyltoluene	5.9	ug/L	1.0	0.50	1		12/13/17 10:22	99-87-6	
Methylene Chloride	1.0J	ug/L	1.0	0.23	1		12/13/17 10:22	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/13/17 10:22	1634-04-4	
Naphthalene	56.2	ug/L	5.0	2.5	1		12/13/17 10:22	91-20-3	
n-Propylbenzene	19.2	ug/L	1.0	0.50	1		12/13/17 10:22	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		12/13/17 10:22	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: DUP2 **Lab ID:** 40162193011 Collected: 12/08/17 00:00 Received: 12/09/17 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		12/13/17 10:22	79-34-5	
Tetrachloroethene	1.0	ug/L	1.0	0.50	1		12/13/17 10:22	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		12/13/17 10:22	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		12/13/17 10:22	120-82-1	
1,1,1-Trichloroethane	3.9	ug/L	1.0	0.50	1		12/13/17 10:22	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/13/17 10:22	79-00-5	
Trichloroethene	13.9	ug/L	1.0	0.33	1		12/13/17 10:22	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		12/13/17 10:22	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		12/13/17 10:22	96-18-4	
1,2,4-Trimethylbenzene	120	ug/L	1.0	0.50	1		12/13/17 10:22	95-63-6	
1,3,5-Trimethylbenzene	20.6	ug/L	1.0	0.50	1		12/13/17 10:22	108-67-8	
Vinyl chloride	6.1	ug/L	1.0	0.18	1		12/13/17 10:22	75-01-4	
m&p-Xylene	259	ug/L	2.0	1.0	1		12/13/17 10:22	179601-23-1	
o-Xylene	2.9	ug/L	1.0	0.50	1		12/13/17 10:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		12/13/17 10:22	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		12/13/17 10:22	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/13/17 10:22	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: MW8 **Lab ID: 40162259001** Collected: 12/08/17 12:12 Received: 12/12/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	71-43-2	
Bromobenzene	<4.6	ug/L	20.0	4.6	20		12/14/17 09:29	108-86-1	
Bromochloromethane	<6.8	ug/L	20.0	6.8	20		12/14/17 09:29	74-97-5	
Bromodichloromethane	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	75-27-4	
Bromoform	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	75-25-2	
Bromomethane	<48.7	ug/L	100	48.7	20		12/14/17 09:29	74-83-9	
n-Butylbenzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	104-51-8	
sec-Butylbenzene	<43.7	ug/L	100	43.7	20		12/14/17 09:29	135-98-8	
tert-Butylbenzene	<3.6	ug/L	20.0	3.6	20		12/14/17 09:29	98-06-6	
Carbon tetrachloride	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	56-23-5	
Chlorobenzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	108-90-7	
Chloroethane	131	ug/L	20.0	7.5	20		12/14/17 09:29	75-00-3	
Chloroform	<50.0	ug/L	100	50.0	20		12/14/17 09:29	67-66-3	
Chloromethane	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	74-87-3	
2-Chlorotoluene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	95-49-8	
4-Chlorotoluene	<4.3	ug/L	20.0	4.3	20		12/14/17 09:29	106-43-4	
1,2-Dibromo-3-chloropropane	<43.3	ug/L	100	43.3	20		12/14/17 09:29	96-12-8	
Dibromochloromethane	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	124-48-1	
1,2-Dibromoethane (EDB)	<3.6	ug/L	20.0	3.6	20		12/14/17 09:29	106-93-4	
Dibromomethane	<8.5	ug/L	20.0	8.5	20		12/14/17 09:29	74-95-3	
1,2-Dichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	95-50-1	
1,3-Dichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	541-73-1	
1,4-Dichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	106-46-7	
Dichlorodifluoromethane	<4.5	ug/L	20.0	4.5	20		12/14/17 09:29	75-71-8	
1,1-Dichloroethane	831	ug/L	20.0	4.8	20		12/14/17 09:29	75-34-3	
1,2-Dichloroethane	61.0	ug/L	20.0	3.4	20		12/14/17 09:29	107-06-2	
1,1-Dichloroethene	<8.2	ug/L	20.0	8.2	20		12/14/17 09:29	75-35-4	
cis-1,2-Dichloroethene	1760	ug/L	20.0	5.1	20		12/14/17 09:29	156-59-2	
trans-1,2-Dichloroethene	49.5	ug/L	20.0	5.1	20		12/14/17 09:29	156-60-5	
1,2-Dichloropropane	<4.7	ug/L	20.0	4.7	20		12/14/17 09:29	78-87-5	
1,3-Dichloropropane	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	142-28-9	
2,2-Dichloropropane	<9.7	ug/L	20.0	9.7	20		12/14/17 09:29	594-20-7	
1,1-Dichloropropene	<8.8	ug/L	20.0	8.8	20		12/14/17 09:29	563-58-6	
cis-1,3-Dichloropropene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	10061-01-5	
trans-1,3-Dichloropropene	<4.6	ug/L	20.0	4.6	20		12/14/17 09:29	10061-02-6	
Diisopropyl ether	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	108-20-3	
Ethylbenzene	216	ug/L	20.0	10.0	20		12/14/17 09:29	100-41-4	
Hexachloro-1,3-butadiene	<42.1	ug/L	100	42.1	20		12/14/17 09:29	87-68-3	
Isopropylbenzene (Cumene)	5.5J	ug/L	20.0	2.9	20		12/14/17 09:29	98-82-8	
p-Isopropyltoluene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	99-87-6	
Methylene Chloride	<4.7	ug/L	20.0	4.7	20		12/14/17 09:29	75-09-2	
Methyl-tert-butyl ether	<3.5	ug/L	20.0	3.5	20		12/14/17 09:29	1634-04-4	
Naphthalene	<50.0	ug/L	100	50.0	20		12/14/17 09:29	91-20-3	
n-Propylbenzene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	103-65-1	
Styrene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	100-42-5	
1,1,1,2-Tetrachloroethane	<3.6	ug/L	20.0	3.6	20		12/14/17 09:29	630-20-6	

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ANALYTICAL RESULTS

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Sample: MW8 **Lab ID: 40162259001** Collected: 12/08/17 12:12 Received: 12/12/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<5.0	ug/L	20.0	5.0	20		12/14/17 09:29	79-34-5	
Tetrachloroethene	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	127-18-4	
Toluene	425	ug/L	20.0	10.0	20		12/14/17 09:29	108-88-3	
1,2,3-Trichlorobenzene	<42.7	ug/L	100	42.7	20		12/14/17 09:29	87-61-6	
1,2,4-Trichlorobenzene	<44.2	ug/L	100	44.2	20		12/14/17 09:29	120-82-1	
1,1,1-Trichloroethane	104	ug/L	20.0	10.0	20		12/14/17 09:29	71-55-6	
1,1,2-Trichloroethane	<3.9	ug/L	20.0	3.9	20		12/14/17 09:29	79-00-5	
Trichloroethene	8.5J	ug/L	20.0	6.6	20		12/14/17 09:29	79-01-6	
Trichlorofluoromethane	<3.7	ug/L	20.0	3.7	20		12/14/17 09:29	75-69-4	
1,2,3-Trichloropropane	<10.0	ug/L	20.0	10.0	20		12/14/17 09:29	96-18-4	
1,2,4-Trimethylbenzene	82.7	ug/L	20.0	10.0	20		12/14/17 09:29	95-63-6	
1,3,5-Trimethylbenzene	25.1	ug/L	20.0	10.0	20		12/14/17 09:29	108-67-8	
Vinyl chloride	2500	ug/L	20.0	3.5	20		12/14/17 09:29	75-01-4	
m&p-Xylene	765	ug/L	40.0	20.0	20		12/14/17 09:29	179601-23-1	
o-Xylene	262	ug/L	20.0	10.0	20		12/14/17 09:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		20		12/14/17 09:29	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		20		12/14/17 09:29	1868-53-7	
Toluene-d8 (S)	103	%	70-130		20		12/14/17 09:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE
Pace Project No.: 40162193

QC Batch: 276743 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162193001, 40162193002, 40162193003, 40162193004, 40162193005, 40162193006, 40162193007, 40162193008, 40162193010, 40162193011

METHOD BLANK: 1627396 Matrix: Water
Associated Lab Samples: 40162193001, 40162193002, 40162193003, 40162193004, 40162193005, 40162193006, 40162193007, 40162193008, 40162193010, 40162193011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	12/12/17 07:53	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/12/17 07:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	12/12/17 07:53	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/12/17 07:53	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/12/17 07:53	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/12/17 07:53	
1,1-Dichloropropene	ug/L	<0.44	1.0	12/12/17 07:53	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	12/12/17 07:53	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	12/12/17 07:53	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	12/12/17 07:53	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/12/17 07:53	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/12/17 07:53	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/12/17 07:53	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/12/17 07:53	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/12/17 07:53	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/12/17 07:53	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/12/17 07:53	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/12/17 07:53	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/12/17 07:53	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/12/17 07:53	
2,2-Dichloropropane	ug/L	<0.48	1.0	12/12/17 07:53	
2-Chlorotoluene	ug/L	<0.50	1.0	12/12/17 07:53	
4-Chlorotoluene	ug/L	<0.21	1.0	12/12/17 07:53	
Benzene	ug/L	<0.50	1.0	12/12/17 07:53	
Bromobenzene	ug/L	<0.23	1.0	12/12/17 07:53	
Bromochloromethane	ug/L	<0.34	1.0	12/12/17 07:53	
Bromodichloromethane	ug/L	<0.50	1.0	12/12/17 07:53	
Bromoform	ug/L	<0.50	1.0	12/12/17 07:53	
Bromomethane	ug/L	<2.4	5.0	12/12/17 07:53	
Carbon tetrachloride	ug/L	<0.50	1.0	12/12/17 07:53	
Chlorobenzene	ug/L	<0.50	1.0	12/12/17 07:53	
Chloroethane	ug/L	<0.37	1.0	12/12/17 07:53	
Chloroform	ug/L	<2.5	5.0	12/12/17 07:53	
Chloromethane	ug/L	<0.50	1.0	12/12/17 07:53	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/12/17 07:53	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/12/17 07:53	
Dibromochloromethane	ug/L	<0.50	1.0	12/12/17 07:53	
Dibromomethane	ug/L	<0.43	1.0	12/12/17 07:53	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/12/17 07:53	
Diisopropyl ether	ug/L	<0.50	1.0	12/12/17 07:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

METHOD BLANK: 1627396

Matrix: Water

Associated Lab Samples: 40162193001, 40162193002, 40162193003, 40162193004, 40162193005, 40162193006, 40162193007, 40162193008, 40162193010, 40162193011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	12/12/17 07:53	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	12/12/17 07:53	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	12/12/17 07:53	
m&p-Xylene	ug/L	<1.0	2.0	12/12/17 07:53	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/12/17 07:53	
Methylene Chloride	ug/L	<0.23	1.0	12/12/17 07:53	
n-Butylbenzene	ug/L	<0.50	1.0	12/12/17 07:53	
n-Propylbenzene	ug/L	<0.50	1.0	12/12/17 07:53	
Naphthalene	ug/L	<2.5	5.0	12/12/17 07:53	
o-Xylene	ug/L	<0.50	1.0	12/12/17 07:53	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/12/17 07:53	
sec-Butylbenzene	ug/L	<2.2	5.0	12/12/17 07:53	
Styrene	ug/L	<0.50	1.0	12/12/17 07:53	
tert-Butylbenzene	ug/L	<0.18	1.0	12/12/17 07:53	
Tetrachloroethene	ug/L	<0.50	1.0	12/12/17 07:53	
Toluene	ug/L	<0.50	1.0	12/12/17 07:53	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/12/17 07:53	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/12/17 07:53	
Trichloroethene	ug/L	<0.33	1.0	12/12/17 07:53	
Trichlorofluoromethane	ug/L	<0.18	1.0	12/12/17 07:53	
Vinyl chloride	ug/L	<0.18	1.0	12/12/17 07:53	
4-Bromofluorobenzene (S)	%	93	61-130	12/12/17 07:53	
Dibromofluoromethane (S)	%	98	67-130	12/12/17 07:53	
Toluene-d8 (S)	%	99	70-130	12/12/17 07:53	

LABORATORY CONTROL SAMPLE: 1627397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.0	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.8	108	70-130	
1,1,2-Trichloroethane	ug/L	50	54.3	109	70-130	
1,1-Dichloroethane	ug/L	50	55.3	111	71-132	
1,1-Dichloroethene	ug/L	50	56.1	112	75-130	
1,2,4-Trichlorobenzene	ug/L	50	53.7	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.1	88	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	109	70-130	
1,2-Dichlorobenzene	ug/L	50	56.4	113	70-130	
1,2-Dichloroethane	ug/L	50	54.4	109	70-131	
1,2-Dichloropropane	ug/L	50	54.1	108	80-120	
1,3-Dichlorobenzene	ug/L	50	54.8	110	70-130	
1,4-Dichlorobenzene	ug/L	50	55.6	111	70-130	
Benzene	ug/L	50	54.8	110	73-145	
Bromodichloromethane	ug/L	50	49.8	100	70-130	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

LABORATORY CONTROL SAMPLE: 1627397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	49.2	98	67-130	
Bromomethane	ug/L	50	41.2	82	26-128	
Carbon tetrachloride	ug/L	50	51.8	104	70-133	
Chlorobenzene	ug/L	50	56.7	113	70-130	
Chloroethane	ug/L	50	50.3	101	58-120	
Chloroform	ug/L	50	54.5	109	80-121	
Chloromethane	ug/L	50	48.9	98	40-127	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.1	88	70-130	
Dibromochloromethane	ug/L	50	50.1	100	70-130	
Dichlorodifluoromethane	ug/L	50	42.7	85	20-135	
Ethylbenzene	ug/L	50	56.9	114	87-129	
Isopropylbenzene (Cumene)	ug/L	50	59.3	119	70-130	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	44.6	89	66-143	
Methylene Chloride	ug/L	50	53.2	106	70-130	
o-Xylene	ug/L	50	57.0	114	70-130	
Styrene	ug/L	50	57.8	116	70-130	
Tetrachloroethene	ug/L	50	54.0	108	70-130	
Toluene	ug/L	50	55.3	111	82-130	
trans-1,2-Dichloroethene	ug/L	50	55.7	111	75-132	
trans-1,3-Dichloropropene	ug/L	50	43.4	87	70-130	
Trichloroethene	ug/L	50	56.6	113	70-130	
Trichlorofluoromethane	ug/L	50	53.3	107	76-133	
Vinyl chloride	ug/L	50	55.1	110	57-136	
4-Bromofluorobenzene (S)	%			96	61-130	
Dibromofluoromethane (S)	%			100	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627932 1627933

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40162193001 Result	Spike Conc.	Spike Conc.	Result							
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.6	53.6	107	107	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	55.0	55.1	110	110	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.4	54.5	107	109	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	54.3	53.3	109	107	71-133	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	54.5	54.7	109	109	75-136	0	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	55.6	55.8	111	112	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	43.7	46.3	87	93	63-123	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	54.9	55.9	110	112	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	56.4	55.9	113	112	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	53.9	53.8	108	108	70-131	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	52.9	51.9	106	104	80-120	2	20	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1627932		1627933		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		40162193001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,3-Dichlorobenzene	ug/L	<0.50	50	50	56.0	55.2	112	110	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	56.7	56.9	113	114	70-130	0	20	
Benzene	ug/L	<0.50	50	50	53.9	54.1	108	108	73-145	0	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.5	49.2	99	98	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	49.9	50.3	100	101	67-130	1	20	
Bromomethane	ug/L	<2.4	50	50	41.7	42.8	83	86	26-129	3	20	
Carbon tetrachloride	ug/L	<0.50	50	50	51.7	53.0	103	106	70-134	2	20	
Chlorobenzene	ug/L	<0.50	50	50	56.6	56.2	113	112	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	50.8	49.9	102	100	58-120	2	20	
Chloroform	ug/L	<2.5	50	50	52.7	53.8	105	108	80-121	2	20	
Chloromethane	ug/L	<0.50	50	50	47.0	47.4	94	95	40-128	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	51.2	51.7	102	103	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	46.1	45.6	92	91	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	50.0	50.5	100	101	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	41.3	41.8	83	84	20-146	1	20	
Ethylbenzene	ug/L	<0.50	50	50	57.9	57.0	116	114	87-129	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	60.5	59.7	121	119	70-130	1	20	
m&p-Xylene	ug/L	<1.0	100	100	119	116	119	116	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.5	43.4	89	87	66-143	3	20	
Methylene Chloride	ug/L	<0.23	50	50	51.2	51.7	102	103	70-130	1	20	
o-Xylene	ug/L	<0.50	50	50	58.1	57.2	116	114	70-130	2	20	
Styrene	ug/L	<0.50	50	50	59.2	58.3	118	117	70-130	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	56.3	54.5	113	109	70-130	3	20	
Toluene	ug/L	0.55J	50	50	57.4	56.2	114	111	82-131	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	55.4	52.8	111	106	75-135	5	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.0	46.1	90	92	70-130	2	20	
Trichloroethene	ug/L	<0.33	50	50	55.6	54.8	111	110	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	53.1	56.4	106	113	76-150	6	20	
Vinyl chloride	ug/L	<0.18	50	50	53.5	53.2	107	106	56-143	1	20	
4-Bromofluorobenzene (S)	%						99	98	61-130			
Dibromofluoromethane (S)	%						99	102	67-130			
Toluene-d8 (S)	%						100	100	70-130			

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE
Pace Project No.: 40162193

QC Batch: 276841 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162193009

METHOD BLANK: 1627953 Matrix: Water
Associated Lab Samples: 40162193009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	12/12/17 12:45	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/12/17 12:45	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	12/12/17 12:45	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/12/17 12:45	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/12/17 12:45	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/12/17 12:45	
1,1-Dichloropropene	ug/L	<0.44	1.0	12/12/17 12:45	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	12/12/17 12:45	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	12/12/17 12:45	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	12/12/17 12:45	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/12/17 12:45	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/12/17 12:45	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/12/17 12:45	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/12/17 12:45	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/12/17 12:45	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/12/17 12:45	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/12/17 12:45	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/12/17 12:45	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/12/17 12:45	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/12/17 12:45	
2,2-Dichloropropane	ug/L	<0.48	1.0	12/12/17 12:45	
2-Chlorotoluene	ug/L	<0.50	1.0	12/12/17 12:45	
4-Chlorotoluene	ug/L	<0.21	1.0	12/12/17 12:45	
Benzene	ug/L	<0.50	1.0	12/12/17 12:45	
Bromobenzene	ug/L	<0.23	1.0	12/12/17 12:45	
Bromochloromethane	ug/L	<0.34	1.0	12/12/17 12:45	
Bromodichloromethane	ug/L	<0.50	1.0	12/12/17 12:45	
Bromoform	ug/L	<0.50	1.0	12/12/17 12:45	
Bromomethane	ug/L	<2.4	5.0	12/12/17 12:45	
Carbon tetrachloride	ug/L	<0.50	1.0	12/12/17 12:45	
Chlorobenzene	ug/L	<0.50	1.0	12/12/17 12:45	
Chloroethane	ug/L	<0.37	1.0	12/12/17 12:45	
Chloroform	ug/L	<2.5	5.0	12/12/17 12:45	
Chloromethane	ug/L	<0.50	1.0	12/12/17 12:45	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/12/17 12:45	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/12/17 12:45	
Dibromochloromethane	ug/L	<0.50	1.0	12/12/17 12:45	
Dibromomethane	ug/L	<0.43	1.0	12/12/17 12:45	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/12/17 12:45	
Diisopropyl ether	ug/L	<0.50	1.0	12/12/17 12:45	
Ethylbenzene	ug/L	<0.50	1.0	12/12/17 12:45	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

METHOD BLANK: 1627953

Matrix: Water

Associated Lab Samples: 40162193009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	12/12/17 12:45	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	12/12/17 12:45	
m&p-Xylene	ug/L	<1.0	2.0	12/12/17 12:45	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/12/17 12:45	
Methylene Chloride	ug/L	<0.23	1.0	12/12/17 12:45	
n-Butylbenzene	ug/L	<0.50	1.0	12/12/17 12:45	
n-Propylbenzene	ug/L	<0.50	1.0	12/12/17 12:45	
Naphthalene	ug/L	<2.5	5.0	12/12/17 12:45	
o-Xylene	ug/L	<0.50	1.0	12/12/17 12:45	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/12/17 12:45	
sec-Butylbenzene	ug/L	<2.2	5.0	12/12/17 12:45	
Styrene	ug/L	<0.50	1.0	12/12/17 12:45	
tert-Butylbenzene	ug/L	<0.18	1.0	12/12/17 12:45	
Tetrachloroethene	ug/L	<0.50	1.0	12/12/17 12:45	
Toluene	ug/L	<0.50	1.0	12/12/17 12:45	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/12/17 12:45	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/12/17 12:45	
Trichloroethene	ug/L	<0.33	1.0	12/12/17 12:45	
Trichlorofluoromethane	ug/L	<0.18	1.0	12/12/17 12:45	
Vinyl chloride	ug/L	<0.18	1.0	12/12/17 12:45	
4-Bromofluorobenzene (S)	%	89	61-130	12/12/17 12:45	
Dibromofluoromethane (S)	%	103	67-130	12/12/17 12:45	
Toluene-d8 (S)	%	95	70-130	12/12/17 12:45	

LABORATORY CONTROL SAMPLE: 1627954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1-Dichloroethane	ug/L	50	43.2	86	71-132	
1,1-Dichloroethene	ug/L	50	42.9	86	75-130	
1,2,4-Trichlorobenzene	ug/L	50	43.7	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	70-131	
1,2-Dichloropropane	ug/L	50	52.3	105	80-120	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,4-Dichlorobenzene	ug/L	50	51.3	103	70-130	
Benzene	ug/L	50	48.8	98	73-145	
Bromodichloromethane	ug/L	50	55.4	111	70-130	
Bromoform	ug/L	50	56.6	113	67-130	
Bromomethane	ug/L	50	24.2	48	26-128	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

LABORATORY CONTROL SAMPLE: 1627954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.5	107	70-133	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	36.6	73	58-120	
Chloroform	ug/L	50	51.4	103	80-121	
Chloromethane	ug/L	50	27.6	55	40-127	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Dibromochloromethane	ug/L	50	53.2	106	70-130	
Dichlorodifluoromethane	ug/L	50	27.4	55	20-135	
Ethylbenzene	ug/L	50	50.1	100	87-129	
Isopropylbenzene (Cumene)	ug/L	50	53.7	107	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	46.5	93	66-143	
Methylene Chloride	ug/L	50	40.9	82	70-130	
o-Xylene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	51.5	103	70-130	
Toluene	ug/L	50	50.8	102	82-130	
trans-1,2-Dichloroethene	ug/L	50	41.9	84	75-132	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	50.6	101	76-133	
Vinyl chloride	ug/L	50	34.5	69	57-136	
4-Bromofluorobenzene (S)	%			104	61-130	
Dibromofluoromethane (S)	%			110	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628131 1628132

Parameter	Units	40162190001		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	<0.50	50	50	54.2	54.5	108	109	70-134	0	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	54.1	53.7	108	107	70-130	1	20			
1,1,2-Trichloroethane	ug/L	<0.20	50	50	55.0	55.3	110	111	70-130	1	20			
1,1-Dichloroethane	ug/L	<0.24	50	50	53.0	43.8	106	88	71-133	19	20			
1,1-Dichloroethene	ug/L	<0.41	50	50	42.3	42.8	85	86	75-136	1	20			
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	48.7	47.5	97	95	70-130	2	20			
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	57.4	57.6	115	115	63-123	0	20			
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.5	59.1	105	118	70-130	12	20			
1,2-Dichlorobenzene	ug/L	<0.50	50	50	54.6	54.0	109	108	70-130	1	20			
1,2-Dichloroethane	ug/L	<0.17	50	50	51.9	53.7	104	107	70-131	3	20			
1,2-Dichloropropane	ug/L	<0.23	50	50	52.7	55.6	105	111	80-120	5	20			
1,3-Dichlorobenzene	ug/L	<0.50	50	50	53.8	51.5	108	103	70-130	4	20			
1,4-Dichlorobenzene	ug/L	<0.50	50	50	55.9	54.0	112	108	70-130	4	20			

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1628131		1628132		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40162190001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	<0.50	50	50	50.8	48.6	102	97	73-145	4	20		
Bromodichloromethane	ug/L	<0.50	50	50	57.9	59.7	116	119	70-130	3	20		
Bromoform	ug/L	<0.50	50	50	58.1	59.0	116	118	67-130	1	20		
Bromomethane	ug/L	<2.4	50	50	25.1	28.4	50	57	26-129	12	20		
Carbon tetrachloride	ug/L	<0.50	50	50	53.4	54.0	107	108	70-134	1	20		
Chlorobenzene	ug/L	<0.50	50	50	54.7	53.0	109	106	70-130	3	20		
Chloroethane	ug/L	<0.37	50	50	36.5	37.4	73	75	58-120	2	20		
Chloroform	ug/L	<2.5	50	50	50.9	51.3	102	103	80-121	1	20		
Chloromethane	ug/L	<0.50	50	50	27.7	28.9	55	58	40-128	4	20		
cis-1,2-Dichloroethene	ug/L	13.0	50	50	60.4	57.5	95	89	70-130	5	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.1	52.3	94	105	70-130	10	20		
Dibromochloromethane	ug/L	<0.50	50	50	56.1	56.2	112	112	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	27.5	28.0	55	56	20-146	2	20		
Ethylbenzene	ug/L	<0.50	50	50	51.6	51.4	103	103	87-129	0	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	55.1	55.5	110	111	70-130	1	20		
m&p-Xylene	ug/L	<1.0	100	100	111	110	111	110	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.3	49.4	93	99	66-143	6	20		
Methylene Chloride	ug/L	<0.23	50	50	41.5	42.6	83	85	70-130	3	20		
o-Xylene	ug/L	<0.50	50	50	53.3	52.5	107	105	70-130	1	20		
Styrene	ug/L	<0.50	50	50	55.5	55.5	111	111	70-130	0	20		
Tetrachloroethene	ug/L	3.0	50	50	56.0	56.4	106	107	70-130	1	20		
Toluene	ug/L	<0.50	50	50	52.2	52.5	104	105	82-131	1	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	42.7	43.3	85	87	75-135	1	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	44.6	48.2	89	96	70-130	8	20		
Trichloroethene	ug/L	5.1	50	50	56.4	61.1	103	112	70-130	8	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	50.2	51.3	100	103	76-150	2	20		
Vinyl chloride	ug/L	<0.18	50	50	34.8	35.7	70	71	56-143	2	20		
4-Bromofluorobenzene (S)	%						101	101	61-130				
Dibromofluoromethane (S)	%						99	99	67-130				
Toluene-d8 (S)	%						95	94	70-130				

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

QC Batch:	276953	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40162259001		

METHOD BLANK: 1628497 Matrix: Water

Associated Lab Samples: 40162259001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	12/13/17 08:01	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/13/17 08:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	12/13/17 08:01	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/13/17 08:01	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/13/17 08:01	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/13/17 08:01	
1,1-Dichloropropene	ug/L	<0.44	1.0	12/13/17 08:01	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	12/13/17 08:01	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	12/13/17 08:01	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	12/13/17 08:01	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/13/17 08:01	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/13/17 08:01	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/13/17 08:01	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/13/17 08:01	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/13/17 08:01	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/13/17 08:01	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/13/17 08:01	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/13/17 08:01	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/13/17 08:01	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/13/17 08:01	
2,2-Dichloropropane	ug/L	<0.48	1.0	12/13/17 08:01	
2-Chlorotoluene	ug/L	<0.50	1.0	12/13/17 08:01	
4-Chlorotoluene	ug/L	<0.21	1.0	12/13/17 08:01	
Benzene	ug/L	<0.50	1.0	12/13/17 08:01	
Bromobenzene	ug/L	<0.23	1.0	12/13/17 08:01	
Bromochloromethane	ug/L	<0.34	1.0	12/13/17 08:01	
Bromodichloromethane	ug/L	<0.50	1.0	12/13/17 08:01	
Bromoform	ug/L	<0.50	1.0	12/13/17 08:01	
Bromomethane	ug/L	<2.4	5.0	12/13/17 08:01	
Carbon tetrachloride	ug/L	<0.50	1.0	12/13/17 08:01	
Chlorobenzene	ug/L	<0.50	1.0	12/13/17 08:01	
Chloroethane	ug/L	<0.37	1.0	12/13/17 08:01	
Chloroform	ug/L	<2.5	5.0	12/13/17 08:01	
Chloromethane	ug/L	<0.50	1.0	12/13/17 08:01	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/13/17 08:01	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/13/17 08:01	
Dibromochloromethane	ug/L	<0.50	1.0	12/13/17 08:01	
Dibromomethane	ug/L	<0.43	1.0	12/13/17 08:01	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/13/17 08:01	
Diisopropyl ether	ug/L	<0.50	1.0	12/13/17 08:01	
Ethylbenzene	ug/L	<0.50	1.0	12/13/17 08:01	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

METHOD BLANK: 1628497

Matrix: Water

Associated Lab Samples: 40162259001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	12/13/17 08:01	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	12/13/17 08:01	
m&p-Xylene	ug/L	<1.0	2.0	12/13/17 08:01	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/13/17 08:01	
Methylene Chloride	ug/L	<0.23	1.0	12/13/17 08:01	
n-Butylbenzene	ug/L	<0.50	1.0	12/13/17 08:01	
n-Propylbenzene	ug/L	<0.50	1.0	12/13/17 08:01	
Naphthalene	ug/L	<2.5	5.0	12/13/17 08:01	
o-Xylene	ug/L	<0.50	1.0	12/13/17 08:01	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/13/17 08:01	
sec-Butylbenzene	ug/L	<2.2	5.0	12/13/17 08:01	
Styrene	ug/L	<0.50	1.0	12/13/17 08:01	
tert-Butylbenzene	ug/L	<0.18	1.0	12/13/17 08:01	
Tetrachloroethene	ug/L	<0.50	1.0	12/13/17 08:01	
Toluene	ug/L	<0.50	1.0	12/13/17 08:01	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/13/17 08:01	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/13/17 08:01	
Trichloroethene	ug/L	<0.33	1.0	12/13/17 08:01	
Trichlorofluoromethane	ug/L	<0.18	1.0	12/13/17 08:01	
Vinyl chloride	ug/L	<0.18	1.0	12/13/17 08:01	
4-Bromofluorobenzene (S)	%	86	61-130	12/13/17 08:01	
Dibromofluoromethane (S)	%	107	67-130	12/13/17 08:01	
Toluene-d8 (S)	%	101	70-130	12/13/17 08:01	

LABORATORY CONTROL SAMPLE: 1628498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.5	115	70-130	
1,1,2-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1-Dichloroethane	ug/L	50	55.8	112	71-132	
1,1-Dichloroethene	ug/L	50	53.1	106	75-130	
1,2,4-Trichlorobenzene	ug/L	50	36.5	73	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.6	109	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	45.1	90	70-130	
1,2-Dichloroethane	ug/L	50	56.1	112	70-131	
1,2-Dichloropropane	ug/L	50	59.6	119	80-120	
1,3-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,4-Dichlorobenzene	ug/L	50	48.7	97	70-130	
Benzene	ug/L	50	57.6	115	73-145	
Bromodichloromethane	ug/L	50	58.5	117	70-130	
Bromoform	ug/L	50	52.3	105	67-130	
Bromomethane	ug/L	50	36.5	73	26-128	

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QUALITY CONTROL DATA

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

LABORATORY CONTROL SAMPLE: 1628498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	61.2	122	70-133	
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroethane	ug/L	50	46.0	92	58-120	
Chloroform	ug/L	50	56.3	113	80-121	
Chloromethane	ug/L	50	36.4	73	40-127	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	70-130	
Dibromochloromethane	ug/L	50	56.6	113	70-130	
Dichlorodifluoromethane	ug/L	50	25.0	50	20-135	
Ethylbenzene	ug/L	50	58.2	116	87-129	
Isopropylbenzene (Cumene)	ug/L	50	55.7	111	70-130	
m&p-Xylene	ug/L	100	118	118	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	66-143	
Methylene Chloride	ug/L	50	51.1	102	70-130	
o-Xylene	ug/L	50	56.2	112	70-130	
Styrene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	53.3	107	70-130	
Toluene	ug/L	50	57.2	114	82-130	
trans-1,2-Dichloroethene	ug/L	50	54.4	109	75-132	
trans-1,3-Dichloropropene	ug/L	50	53.2	106	70-130	
Trichloroethene	ug/L	50	56.6	113	70-130	
Trichlorofluoromethane	ug/L	50	51.4	103	76-133	
Vinyl chloride	ug/L	50	46.1	92	57-136	
4-Bromofluorobenzene (S)	%			105	61-130	
Dibromofluoromethane (S)	%			108	67-130	
Toluene-d8 (S)	%			104	70-130	

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: FORMER KITZINGER SITE

Pace Project No.: 40162193

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER KITZINGER SITE

Pace Project No.: 40162193

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162193001	KMW2	EPA 8260	276743		
40162193002	KMW3	EPA 8260	276743		
40162193003	KPZ2	EPA 8260	276743		
40162193004	KPZ1	EPA 8260	276743		
40162193005	SMW4	EPA 8260	276743		
40162193006	SPM4	EPA 8260	276743		
40162193007	MW14	EPA 8260	276743		
40162193008	DUPLICATE	EPA 8260	276743		
40162193009	TRIP	EPA 8260	276841		
40162193010	KMW4	EPA 8260	276743		
40162193011	DUP2	EPA 8260	276743		
40162259001	MW8	EPA 8260	276953		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)



CHAIN OF CUSTODY

A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H= Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

UPPER MIDWEST REGION
 MW: 612-607-1700 WI: 920-469-2436

Company Name: Kel Engineering
 Branch/Location: Willwaukee
 Project Contact: Kyle McAloney
 Phone: 414-224-8300
 Project Number:
 Project Name: Former Kitzing & Site
 Project State: WI
 Sampled By (Print): Sachagawanda
 Sampled By (Sign): Sachagawanda
 PO #:

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

V/I/N	Pick Letter
N	B

Data Package Options
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

Analyses Requested

DATE	TIME	MATRIX
12/7/17	1558	W
12/13	738	W
12/13	826	W
12/13	906	W
12/13	942	W
12/13	1033	W
12/13	1818	W
12/13	1945	W
12/13	1217	W

Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)

PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
001	KW02	12/7/17	1558	W	[Signature]	12/8/17	[Signature]	12/9/17	[Signature]	12/9/17	[Signature]	12/9/17
002	KW03	12/13	738	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
003	KP22	12/13	826	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
004	KP21	12/13	906	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
005	SW04	12/13	942	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
006	SP04	12/13	1033	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
007	MW08	12/13	1818	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
008	MW14	12/13	1945	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
009	LI01	12/13	1217	W	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13	[Signature]	12/13
010	KW04	12/8/17		W	[Signature]	12/8/17	[Signature]	12/9/17	[Signature]	12/9/17	[Signature]	12/9/17
011	DUP2	12/8/17		W	[Signature]	12/8/17	[Signature]	12/9/17	[Signature]	12/9/17	[Signature]	12/9/17

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Results by (complete what you want):
 Email #1:
 Email #2:
 Telephones:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability
 Dadded by lab, included in shipment at 12/9/17

PACE Project No.:
 Receipt Temp = F01 °C
 Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

ORIGINAL



Sample Condition Upon Receipt

Pace Analytical Services, LLC - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project: WO#: 40162193

Client Name: Key
Courier: Fed Ex UPS Client Pace Other: CS Logistics
Tracking #: 3593.120817



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: NA Type of Ice: Wet Blue Dry None
Cooler Temperature: Uncorr: ICorr: ROI Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 12/19/17
Initials: KJ

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, and Trip Blank Present. Contains handwritten notes such as '1010+oil added by lab KJ 12/19/17' and '12.001, 2 vials no ID, placed by time's 003 date 12/17; 008 no time KJ 12/19/17'.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution: 2 MW8 not rec'd

Project Manager Review: RMR for DM Date: 12/19/17 KJ 12/19/17



Sample Condition Upon Receipt

Pace Analytical Services, LLC - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Key Engineering

Project #: 40162259
AFFIX WORKORDER LABEL HERE

Courier: Fed Ex UPS Client Pace Other: CS Logistics
Tracking #: _____

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: SP-161 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 05 /Corr: 1 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

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

Person examining contents:
Date: 12/12/17
Initials: RW

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>only carbon copy RW 12/12/17</u>
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 <input type="checkbox"/> N/A	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 <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>NO MS/MSD RW 12/12/17</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	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 <input type="checkbox"/> N/A	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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>NO time on vials. ID is '8' RW 12/12/17</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions (VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: _____)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

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

Comments/ Resolution: _____

Project Manager Review: RW for RW

Date: 12/12/17