

Shelly Billingsley
City of Kenosha
Director of Public Works
625 52nd Street, Room 305
Kenosha, Wisconsin 53140



November 6, 2018

Project Reference
AECOM Project 60568797.2
Task Order 119-110617

Other Reference
WDNR BRRTs #02-30-000673

Groundwater Sample Results - Former Kenosha Iron & Metal, 5512 19th Avenue, Kenosha, Wisconsin

Dear Ms. Billingsley;

AECOM has conducted monitoring well replacement, rehabilitation and groundwater sampling at three monitoring wells located at the above referenced site in general conformance with the work described in Task Order 119-061818 and subsequent Change Order #1 dated June 18, 2019. This site is adjacent to the development of the former Vincent McCall site which is being redeveloped as the Vincent McCall Lofts. As part of this redevelopment, the former Iron & Metals site has been leased to the Vincent McCall Lofts for the purpose of providing a second ingress-egress to the Vincent McCall property. The groundwater monitoring wells along the north perimeter of the property were sampled prior to construction to document that groundwater conditions adjacent to the existing residents have not changed.

Sample Procedures

Groundwater samples were planned to be collected from three existing monitoring wells, B-1, B-5, and B-9. Upon inspection, monitoring well B-1 was able to be sampled, but monitoring wells B-5 and B-9 appeared to be blocked by obstructions. On July 24, 2018, AECOM returned to the site with a drilling subcontractor and monitoring well B-9 was abandoned and replaced with B-9R. Monitoring well B-5 was able to be cleared by the driller. The procedures used for the well repair, replacement, and sampling are described below.

Monitoring Well Rehabilitation

The integrity of each of the three monitoring wells was conducted by opening the well, measuring the depth to water and measuring the depth to the bottom of each well. Monitoring wells B-5 and B-9 appeared to be blocked by obstructions approximately 10 feet below the top of the casing. Monitoring well B-5 had a blockage that consisted of vegetation and roots. The blockage was successfully removed, a bailer was successfully passed to the bottom of the well and groundwater was able to be withdrawn from the well.

Monitoring well B-5 was redeveloped by bailing 10 gallons of water with a bailer and then purging the well with a whale pump. Approximately eight gallons of water were removed by the pump before the well went dry.

Monitoring Well Abandonment

Monitoring well B-9 was not able to be rehabilitated and was abandoned. Abandonment was conducted in general conformance with NR 141.25 (Wisconsin Administrative Code) by fully removing the well casing and screen, then backfilling the annulus with bentonite chips. A copy of the monitoring well abandonment form 3300-5 is attached to this report.

Monitoring Well Installation

Monitoring well B-9 was replaced with B-9R located approximately five feet southwest of the original well location. Soil samples were collected at the B-9R location with a soil probe for lithological description. Next, the boring was enlarged using a hollow-stem auger for well installation and the well was installed inside the augers in general conformance with NR 141. The lithology is documented on Form 4400-122 and the well construction was documented on Form 4400-113A.

Monitoring well B-9R was developed using a bailer because of the low conductivity of the water table aquifer. Approximately seven gallons of water were removed before the well went dry. The development was documented on Form 4400-113B.

A copy of these forms is attached to this letter.

Groundwater Sampling

A groundwater sample was collected from monitoring well B-1 on April 10, 2018 using a low-flow sampling technique with a peristaltic pump and new tubing. Prior to groundwater sampling, the depth to groundwater was measured. Field parameters, including pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature, were measured during well purging and recorded following stabilization of each parameter. After the parameters had stabilized a groundwater sample was collected for volatile organic compound (VOC) analysis.

A groundwater sample was collected from monitoring wells B-5 and B-9R on August 9, 2018. Prior to groundwater sampling, the depth to groundwater was measured in each of the monitoring wells. Groundwater samples were collected using a dedicated bailer at each location. Field parameters (pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature) were also measured prior to sampling.

Groundwater samples were placed into laboratory-provided 40-ml VOC vials containing hydrochloric acid (HCl) preservative. The bottle was filled to a positive meniscus and covered with a cap fitted with a Teflon® septum. The bottle was inverted and gently tapped to verify that air bubbles were not present in the sample. Each bottle was labeled, typically with a label provided by the laboratory, with the well number, sample number, date, sampler's initials, project number and preservatives added. After labeling, the samples were placed in a cooler with the chain of custody, on ice, for shipment to an analytical laboratory.

The groundwater samples were analyzed at a Wisconsin-certified laboratory, Pace Analytical. All samples were maintained on ice until delivery to the laboratory. The samples were collected and tracked using standard chain of custody procedures. VOCs were analyzed by method SW846 Method 8260B.

Monitoring Well Abandonments

On July 24, 2018, when AECOM staff arrived at the site, they were informed by the consultant for VMC Lofts that existing wells B-3, B-4, B-6, B-7, and B-8 had been damaged by the earthwork contractor because the wells were located within proposed roadways or parking areas and were subsequently abandoned. VMC Lofts proposed to replace B-6 approximately 90 feet north of its original location and B-7 and B-8 approximately 30 feet north of their original location. An alternate location for B-4 was not needed because this well was located on VMC Lofts property. The alternate locations were chosen to avoid all parking or roadway area. These alternate locations were rejected because the locations would not be representative of groundwater conditions along the southern property boundary but would represent groundwater conditions at a different point on the site and the locations would not serve to provide sufficient separation to evaluate groundwater flow. Since continued groundwater monitoring is

Not sure
what is going
on?

not planned at this time or in the foreseeable future, well replacement was not required. Copies of the well abandonment forms for wells B-3, B-4, B-6, B-7, and B-8 are attached.

Results

The results of the groundwater analyses are provided in Table 1. The results table includes the past analyses from 2001 and 2002. VOCs were generally not detected in any of the three wells sampled in 2018 except for one VOC, 1,2-dichloroethane, which was detected in the groundwater sample from monitoring well B-1 above the PAL.

Previously, petroleum VOCs were detected in the groundwater at B-1 with only benzene exceeding groundwater quality standards. Benzene was not detected in the 2018 groundwater sample. Natural attenuation has apparently reduced/removed the prior detected petroleum impacts. The groundwater quality in B-5 is unchanged with no detected VOCs. The groundwater quality in B-9R is also relatively unchanged, and the 1,2-dichloroethane that was detected in 2002 was not detected in 2018.

Also
At this time, the groundwater quality appears to be unchanged or slightly improved in the monitoring wells nearest the residences. The City of Kenosha has asserted its local governmental exemption status for this site and at this time there does not appear to be a need for continued monitoring. The development that is occurring in and adjacent to the site will provide an impermeable surface over portions of the site and should protect the groundwater from further degradation by limiting infiltration.

Closing

No further groundwater sampling is recommended at this time. Please contact the undersigned if you have questions about this letter.

Yours sincerely,

Lanette Altenbach

Lanette Altenbach, P.G.
Senior Hydrogeologist
AECOM
T: 414-944-6186
E: lanette.altenbach@aecom.com

enclosures: Groundwater Summary Table – Detected VOCs
Figure 1 – Monitoring Well Locations
B-9R Monitoring well boring log, construction form and development form
Monitoring well abandonment forms (B-3, B-4, B-6, B-7, B-8 and B-9)
Laboratory Analytical Results

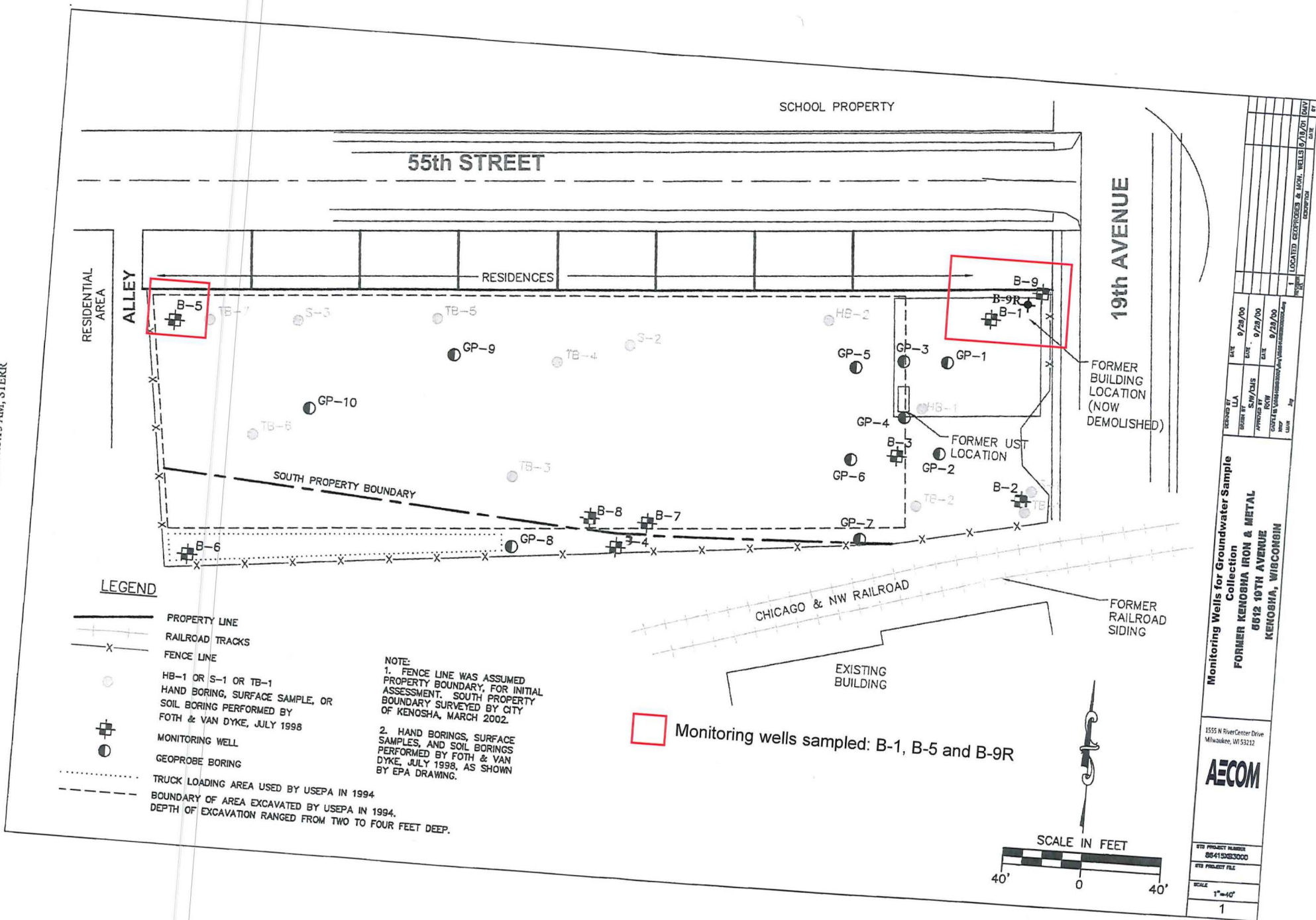
cc: BRRTS # 02-30-000673 Doug Cieslak, WDNR Project Manager

Table 1
Laboratory Analytical Results
Detected Volatile Organic Compounds in Groundwater
Former Kenosha Iron Metal Site
BRRTS #02-30-000673

Well/Sample No.	Detected VOCs	Benzene	n-Butyl benzene	sec-Butyl benzene	1,2-Dichloro ethane	Ethyl benzene	Isopropyl benzene	p-Isopropyl toluene	n-Propyl benzene	Toluene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Total Xylenes
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Date												
B-1													
KI-B1R-W010612	6/12/2001	63	<1.20	<0.95	<1.40	3.61	<0.85	1.38	<0.8	34.1	39.1	<0.85	47.85
K1-B1-W020410	4/10/2002	28.8	<1.80	<1.65	<0.85	2.81	4.19	<1.60	2.21	13.5	57.9	<1.55	20.4
B-1	4/10/2018	<0.50	<0.50	<2.2	<u>0.54</u> ^J	<0.50	<0.14	<0.50	<0.50	<0.50	<0.50	<0.50	<1.50
B-5													
KI-B05-W010612	6/12/2001	<0.16	<0.24	<0.19	<0.28	<0.5	<0.17	<0.19	<0.16	<0.4	<0.4	<0.17	<0.57
K1-B5-W020410	4/10/2002	<0.31	<0.36	<0.33	<0.17	<0.5	<0.31	<0.32	<0.3	<0.3	<0.4	<0.31	<0.92
B-5	8/9/2018	<0.25	<0.71	<0.85	<0.28	<0.22	<0.39	<0.80	<0.81	<0.17	<0.84	<0.87	<1.5
B-5 Dup	8/9/2018	<0.25	<0.71	<0.85	<0.28	<0.22	<0.39	<0.80	<0.81	<0.17	<0.84	<0.87	<1.5
B-9													
KI-B9-W020410	4/10/2002	<0.31	<0.36	<0.33	<u>4.07</u>	<0.5	<0.31	<0.32	<0.3	<0.3	<0.4	<0.31	<0.92
B-9R	8/9/2018	<0.25	<0.71	<0.85	<0.28	<0.22	<0.39	<0.80	<0.81	<0.17	<0.84	<0.87	<1.5
PAL		0.5	---	---	0.5	140	---	---	---	160	96 ¹	96 ¹	1000 ¹
ES		5	---	---	5	700	---	---	---	800	480 ¹	480 ¹	10000 ¹

Notes: VOCs - Volatile Organic Compounds
PAL - NR140, Wisconsin Administrative Code Preventative Action Limit, April 2001, Exceedances are Underlined Italics
ES - NR140, Wisconsin Administrative Code Enforcement Standard, April 2001, Exceedances are **Bold**
--- No NR140 ES or PAL Established
^J - Concentration listed is below practical quantification limit and is therefore, estimated
¹ - PAL and ES are for total trimethylbenzenes and total xylenes
ug/l - Micrograms per liter
Monitoring well B-9 was blocked and unable to be cleared. The well was abandoned and replaced (B-9R) on July 24, 2018.

W:\0586415\XB3000\dwg\0586415\XB30000002.dwg, SHEET 2, 05/10/2002 07:15:13 AM, STERR

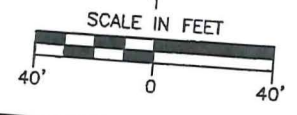


LEGEND

- PROPERTY LINE
- RAILROAD TRACKS
- FENCE LINE
- HB-1 OR S-1 OR TB-1
HAND BORING, SURFACE SAMPLE, OR SOIL BORING PERFORMED BY FOTH & VAN DYKE, JULY 1998
- MONITORING WELL
- GEOPROBE BORING
- TRUCK LOADING AREA USED BY USEPA IN 1994
- BOUNDARY OF AREA EXCAVATED BY USEPA IN 1994. DEPTH OF EXCAVATION RANGED FROM TWO TO FOUR FEET DEEP.

NOTE:
 1. FENCE LINE WAS ASSUMED PROPERTY BOUNDARY, FOR INITIAL ASSESSMENT. SOUTH PROPERTY BOUNDARY SURVEYED BY CITY OF KENOSHA, MARCH 2002.
 2. HAND BORINGS, SURFACE SAMPLES, AND SOIL BORINGS PERFORMED BY FOTH & VAN DYKE, JULY 1998, AS SHOWN BY EPA DRAWING.

Monitoring wells sampled: B-1, B-5 and B-9R



Monitoring Wells for Groundwater Sample Collection
FORMER KENOSHA IRON & METAL
6612 19TH AVENUE
KENOSHA, WISCONSIN

REVISION BY	DATE	DESCRIPTION
LJA	9/29/00	
SM/CMS	9/29/00	
APPROVED BY	DATE	
DATE	9/29/00	
LOCATED GEOPROBES & MON. WELLS 9/29/00		

1555 N RiverCenter Drive
 Milwaukee, WI 53212

AECOM

STP PROJECT NUMBER: 88-4150823000
 STP PROJECT FILE:
 SCALE: 1"=40'
 1

**Monitoring Well B-9R
Boring Log
Well Construction
Well Development**

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

Facility/Project Name Kenosha Iron & Metal		License/Permit/Monitoring Number		Boring Number B-9R	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services		Date Drilling Started 7/24/2018	Date Drilling Completed 7/24/2018	Drilling Method Direct Push/HSA	
WI Unique Well No. V0340	DNR Well ID No.	Common Well Name B9-R	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.50
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of SW 1/4 of Section 31, T 2 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Kenosha	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 HA	60			Topsoil and Grass											
	60		1.5	Orange-brown fine grain SAND (SP), some coarse grain sand, trace small pebbles, dry	SP			0.0							
2 DP	60		3.0					0.0							
	60		4.5	Light brown fine grain SAND (SP), trace small pebbles, dry	SP			0.0							
	60		6.0	Gray SILTY CLAY (CL), little small pebbles, stiff, low plasticity, moist Wet at 7 ft. bgs	CL			0.0							
3 DP	60		7.5					0.0							
	56		10.5	Brown coarse grain SAND (SP), wet	SP			0.0							
			12.0	Gray SILTY CLAY (CL), trace small pebbles, stiff, moist	CL			0.0							
			13.5	Gray to brown CLAYEY SILT (CL), trace small pebbles, loose, moist	ML			0.0							
			15.0	End of Boring at 15 ft. bgs				0.0							

*Note: WC-1 sample collected at 1230

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

Signature	Firm AECOM 1555 N RiverCenter Drive Milwaukee, WI 53212	Tel: 414-944-6080 Fax: 414-944-6081
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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 Kenosha Iron & Metal		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name B9-R	
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. V0340 DNR Well Number	
Facility ID		Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or		Date Well Installed 07/24/2018	
Type of Well Well Code 11/mw		St. Plane _____ ft. N, _____ ft. E. S/C/N		Well Installed By: (Person's Name and Firm) Tony Kapugi	
Distance from Waste/Source ft. _____		Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31 , T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		On-Site Environmental Services	
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. 9.0 b. Length: _____ ft. 1.0 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 _____ ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Bentonite Chips & Topsoil 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 checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" 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 type="checkbox"/> 3 0 3/8" Bentonite Chips Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. 1.5 Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 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"/> 3 2 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9		7. Fine sand material: Manufacturer, product name & mesh size Unimen 5010
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		a. Volume added 0.75 ft ³
Describe _____		8. Filter pack material: Manufacturer, product name & mesh size Sidley Ohio 1020 Sand
17. Source of water (attach analysis, if required): _____	a. Volume added 6 ft ³	
E. Bentonite seal, top _____ ft. MSL or 1.00 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>	
F. Fine sand, top _____ ft. MSL or 4.00 ft.	10. Screen material: Polyvinyl Chloride	
G. Filter pack, top _____ ft. MSL or 4.50 ft.	a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>	
H. Screen joint, top _____ ft. MSL or 5.00 ft.	b. Manufacturer Monoflex	
I. Well bottom _____ ft. MSL or 15.00 ft.	c. Slot size: 0.010 in.	
J. Filter pack, bottom _____ ft. MSL or 15.00 ft.	d. Slotted length: 10.0 ft.	
K. Borehole, bottom _____ ft. MSL or 15.00 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Native Other <input type="checkbox"/>	
L. Borehole, diameter 8.50 in.		
M. O.D. well casing 2.30 in.		
N. I.D. well casing 2.00 in.		

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

Signature _____ Firm **AECOM** Tel: 414-944-6080
1555 N RiverCenter Drive Milwaukee, WI 53212 Fax: 414-944-6081

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 Kenosha Iron and Metal 5512 19th Ave	County Name Kenosha	Well Name B-9R	
Facility License, Permit or Monitoring Number	County Code 30	Wisconsin Unique Well Number VO340	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____ _____

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 17.97 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 6.35 gal.

7. Volume of water removed from well 10 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>10.71</u> ft.	<u>16.97</u> ft.
Date	b. <u>8/2/2018</u> <small>m m / d d / y y y y</small>	<u>8/2/2018</u> <small>m m / d d / y y y y</small>
Time	c. <input type="checkbox"/> a.m. <u>100</u> <input checked="" type="checkbox"/> p.m.	<input type="checkbox"/> a.m. <u>640</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
	(Describe) <u>Turbid</u>	(Describe) <u>Cloudy</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Zach</u>	Last Name: <u>Albert</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party First Name: <u>Zach</u> Last Name: <u>Albert</u>	I hereby certify that the above information is correct and true to the best of my knowledge
Facility/Firm: <u>AECOM</u>	Signature: <u>Zachary Albert</u>
Street: <u>1555 N. Rivercenter Drive, Ste. 214, Milwaukee, WI 53212, USA</u>	Print Name: <u>Zach Albert</u>
City/State/Zip: <u>Milwaukee WI</u>	Firm: <u>AECOM</u>

NOTE: See instructions for more information including a list of county codes and well type codes

Monitoring Well Abandonment Forms

B-3

B-4

B-6

B-7

B-8

B-9

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to:	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____		

1. Well Location Information	2. Facility / Owner Information
County Kenosha	Facility Name Kenosha Iron & Metal
Latitude / Longitude (Degrees and Minutes) _____ ° _____ ' N _____ ° _____ ' W	Facility ID (FID or PWS) 230099870
Method Code (see instructions) _____	License/Permit/Monitoring # B-3
1/4 NW 1/4 SW Section Township Range E W _____ 31 2 N 23 W	Original Well Owner City of Kenosha
Well Street Address 5512 19th Avenue	Present Well Owner City of Kenosha
Well City, Village or Town Kenosha	Mailing Address of Present Owner 625 52nd Street
Well ZIP Code 53140	City of Present Owner State ZIP Code Kenosha WI 53140
Subdivision Name _____	Lot # _____

Reason For Removal From Service Damaged	WI Unique Well # of Replacement Well PC368
--	---

3. Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Original Construction Date (mm/dd/yyyy) 5/30/2001	Was casing cut off below surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Did material settle after 24 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) 15	If yes, was hole retopped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing Diameter (in.) 2	If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.) 8	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): Gravity
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips
If yes, to what depth (feet)? Unknown	For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15	1 - 50# bag	

6. Comments	

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Robert Cigale	License #	Date of Filling & Sealing (mm/dd/yyyy) 07/23/18	Date Received	Noted By
Street or Route 6871 South Lovers Lane	Telephone Number (414) 427-1200	Signature of Person Doing Work <i>Robert Cigale</i>	Comments	
City Franklin	State WI	ZIP Code 53132	Date Signed 07/25/18	

Facility/Project Name Kenosha Iron & Metal 86415XB T3000	Local Grid Location of Well _____ ft. <input type="checkbox"/> N, _____ ft. <input type="checkbox"/> E, _____ ft. <input type="checkbox"/> S, _____ ft. <input type="checkbox"/> W	Well Name B-3
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or	Wis. Unique Well No/PC368 DNR Well Number B-3
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 05/30/2001
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) North Shore Drilling
Distance Well Is From Waste/Source Boundary 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	

A. Protective pipe, top elevation _____ 625.93 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ 625.96 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation _____ 622.9 ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Expandable Cap
D. Surface seal, bottom _____ 620.4 ft. MSL or _____ 2.5 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	5. Annular space seal: a. Granular 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. _____ 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
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	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 pellets <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name and mesh size a. Badger Silica Sand 55/65mm <input checked="" type="checkbox"/> b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. Red Flint Filter Sand 80/120mm <input checked="" type="checkbox"/> b. Volume added _____ ft ³
17. Source of water (attach analysis): _____	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 _____ 620.4 ft. MSL or _____ 2.5 ft.	10. Screen material: PVC <input checked="" type="checkbox"/> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ 618.9 ft. MSL or _____ 4.0 ft.	b. Manufacturer Env. Mfg. Inc.
G. Filter pack, top _____ 618.4 ft. MSL or _____ 4.5 ft.	c. Slot size: 0.006 in.
H. Screen joint, top _____ 617.9 ft. MSL or _____ 5.0 ft.	d. Slotted length: 10.0 ft.
I. Well bottom _____ 607.9 ft. MSL or _____ 15.0 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ 607.9 ft. MSL or _____ 15.0 ft.	
K. Borehole, bottom _____ 607.9 ft. MSL or _____ 15.0 ft.	
L. Borehole, diameter _____ 8.0 in.	
M. O.D. well casing _____ 2.37 in.	
N. I.D. well casing _____ 2.06 in.	

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

Signature: *[Signature]* Firm: STS Consultants, Ltd. 11425 West Lake Park Drive Milwaukee, WI 53224 Tel: 414-359-3030 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return 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.

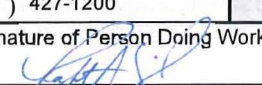
Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information County: Kenosha WI Unique Well # of Removed Well: _____ Hicap #: _____ Latitude / Longitude (Degrees and Minutes): _____ 'N _____ 'W Method Code (see instructions): _____ ¼ / ¼ NW ¼ SW Section Township Range <input checked="" type="checkbox"/> E or Gov't Lot # 31 2 N 23 W Well Street Address: 5512 19th Avenue Well City, Village or Town: Kenosha Well ZIP Code: 53140 Subdivision Name: _____ Lot #: _____ Reason For Removal From Service Damaged: _____ WI Unique Well # of Replacement Well: PC369				2. Facility / Owner Information Facility Name: Kenosha Iron & Metal Facility ID (FID or PWS): 230099870 License/Permit/Monitoring #: B-4 Original Well Owner: City of Kenosha Present Well Owner: City of Kenosha Mailing Address of Present Owner: 625 52nd Street City of Present Owner: Kenosha State: WI ZIP Code: 53140			
3. Well / Drillhole / Borehole Information <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole Original Construction Date (mm/dd/yyyy): 06/06/2001 If a Well Construction Report is available, please attach: _____ Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth From Ground Surface (ft.): 15 Casing Diameter (in.): 2 Lower Drillhole Diameter (in.): 8 Casing Depth (ft.): 15 Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If yes, to what depth (feet)? _____ Depth to Water (feet): Unknown				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Was casing cut off below surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Required Method of Placing Sealing Material: <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): Gravity Sealing Materials: <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
5. Material Used To Fill Well / Drillhole 3/8" Bentonite Chips From (ft.): Surface To (ft.): 15 No. Yards, Sacks Sealant or Volume (circle one): 1 - 50# bag Mix Ratio or Mud Weight: _____							
6. Comments _____ _____							

7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Robert Cigale		License #	Date of Filling & Sealing (mm/dd/yyyy) 07/23/18		Date Received		Noted By
Street or Route 6871 South Lovers Lane			Telephone Number (414) 427-1200		Comments		
City Franklin		State WI	ZIP Code 53132	Signature of Person Doing Work 		Date Signed 07/25/18	

Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Facility/Project Name Kenosha Iron & Metal 86415XB T3000	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name B-4
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. PC369 DNR Well Number B-4
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 06/06/2001
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31 T. 2 N. R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Dean
Distance Well Is From Waste/Source Boundary 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	North Shore Drilling

A. Protective pipe, top elevation _____ 625.45 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ 625.74 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ 622.6 ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Expandable Cap
D. Surface seal, bottom _____ 620.6 ft. MSL or _____ 2.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular 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. _____ 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 pellets <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 and mesh size a. Bdger Silica Sand 55/65mm b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name and mesh size a. Red Flint Filter Sand 80/120mm b. Volume added _____ ft ³
Describe _____	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"/>
17. Source of water (attach analysis): _____	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top _____ 618.6 ft. MSL or _____ 4.0 ft.	b. Manufacturer Env. Mfg. Inc.
F. Fine sand, top _____ 618.6 ft. MSL or _____ 4.0 ft.	c. Slot size: 0.006 in.
G. Filter pack, top _____ 618.2 ft. MSL or _____ 4.4 ft.	d. Slotted length: 10.0 ft.
H. Screen joint, top _____ 618.0 ft. MSL or _____ 4.6 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
I. Well bottom _____ 608.0 ft. MSL or _____ 14.6 ft.	
J. Filter pack, bottom _____ 607.6 ft. MSL or _____ 15.0 ft.	
K. Borehole, bottom _____ 607.6 ft. MSL or _____ 15.0 ft.	
L. Borehole, diameter _____ 8.0 in.	
M. O.D. well casing _____ 2.37 in.	
N. I.D. well casing _____ 2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature *David A. Oberbauer* Firm **STS Consultants, Ltd.** Tel: 414-359-3030
11425 West Lake Park Drive Milwaukee, WI 53224 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return 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.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Kenosha	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 / 1/4 NW SW or Gov't Lot #	Section 31	Township 2 N
Well Street Address 5512 19th Avenue		Range 23 W
Well City, Village or Town Kenosha		Well ZIP Code 53140
Subdivision Name		Lot # _____

2. Facility / Owner Information

Facility Name Kenosha Iron & Metal
Facility ID (FID or PWS) 230099870
License/Permit/Monitoring # B-6
Original Well Owner City of Kenosha
Present Well Owner City of Kenosha
Mailing Address of Present Owner 625 52nd Street
City of Present Owner Kenosha
State WI
ZIP Code 53140

Reason For Removal From Service Damaged	WI Unique Well # of Replacement Well PC287
--	---

3. Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 05/31/2001
If a Well Construction Report is available, please attach.	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 15.1	Casing Diameter (in.) 2
Lower Drillhole Diameter (in.) 8	Casing Depth (ft.) 15.1
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) Unknown

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain): Gravity
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.1	1 - 50# bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Robert Cigale	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 07/23/18	DNR Use Only	
Street or Route 6871 South Lovers Lane		Telephone Number (414) 427-1200	Date Received	Noted By
City Franklin	State WI	ZIP Code 53132	Comments	Date Signed 07/25/18
Signature of Person Doing Work <i>Robert Cigale</i>				

Facility/Project Name Kenosha Iron & Metal 86415XB T3000	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name B-6
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or	Wis. Unique Well No/DNR Well Number PC287
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 05/31/2001
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) North Shore Drilling
Distance Well Is From Waste/Source Boundary 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	

A. Protective pipe, top elevation _____ 626.19 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ 626.60 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ 623.6 ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Expandable Cap
D. Surface seal, bottom _____ 621.3 ft. MSL or _____ 2.3 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USC 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 checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>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</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis): _____</p> </div>	
E. Bentonite seal, top _____ 619.3 ft. MSL or _____ 4.3 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ 619.3 ft. MSL or _____ 4.3 ft.	5. Annular space seal: a. Granular 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. _____ 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
G. Filter pack, top _____ 619.2 ft. MSL or _____ 4.4 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 pellets <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ 609.1 ft. MSL or _____ 14.5 ft.	7. Fine sand material: Manufacturer, product name and mesh size a. Badger Silica Sand 55/65mm <input checked="" type="checkbox"/> b. Volume added _____ ft ³
I. Well bottom _____ 608.5 ft. MSL or _____ 15.1 ft.	8. Filter pack material: Manufacturer, product name and mesh size a. Red Flint Filter Sand 80/120mm <input checked="" type="checkbox"/> b. Volume added _____ ft ³
J. Filter pack, bottom _____ 608.5 ft. MSL or _____ 15.1 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"/>
K. Borehole, bottom _____ 608.5 ft. MSL or _____ 15.1 ft.	10. Screen material: PVC <input checked="" type="checkbox"/> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter _____ 8.0 in.	b. Manufacturer Env. Mfg. Inc.
M. O.D. well casing _____ 2.37 in.	c. Slot size: _____ 0.010 in.
N. I.D. well casing _____ 2.06 in.	d. Slotted length: _____ 10.0 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 David H. Oberbauer Firm STS Consultants, Ltd. Tel: 414-359-3030
 11425 West Lake Park Drive Milwaukee, WI 53224 Fax: 414-359-0822

Please complete both Forms 4400-113A and 4400-113B and return 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.

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Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Kenosha	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 / 1/4 NW SW Section or Gov't Lot #	31	Township Range 2 N 23 W
Well Street Address 5512 19th Avenue		
Well City, Village or Town Kenosha		Well ZIP Code 53140
Subdivision Name		Lot # _____
Reason For Removal From Service Damaged	WI Unique Well # of Replacement Well PK573	

2. Facility / Owner Information

Facility Name Kenosha Iron & Metal		
Facility ID (FID or PWS) 230099870		
License/Permit/Monitoring # B-7		
Original Well Owner City of Kenosha		
Present Well Owner City of Kenosha		
Mailing Address of Present Owner 625 52nd Street		
City of Present Owner Kenosha	State WI	ZIP Code 53140

3. Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 03/22/2002
If a Well Construction Report is available, please attach.	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 15.5	Casing Diameter (in.) 2
Lower Drillhole Diameter (in.) 8	Casing Depth (ft.) 15.5
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) Unknown

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): Gravity	
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.5	1 - 50# bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Robert Cigale	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 07/23/18	DNR Use Only	
Street or Route 6871 South Lovers Lane		Telephone Number (414) 427-1200	Date Received	Noted By
City Franklin	State WI	ZIP Code 53132	Signature of Person Doing Work 	Date Signed 07/25/18

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

Facility/Project Name Kenosha Iron & Metal 86415XC	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name B-7
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or	Wis. Unique Well No/DNR Well Number PK573
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 03/22/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Dean & Steve
Distance Well Is From Waste/Source Boundary 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	North Shore Drilling

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: _____ 4.0 in. b. Length: _____ 5.0 ft. 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 1.0 ft.		3. Surface seal: _____ Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Soil _____ Other <input checked="" type="checkbox"/>
12. USC 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 checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 30 Sand _____ Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular 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. _____ 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 pellets <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 and mesh size a. _____ Red Flint #45-55 <input checked="" type="checkbox"/> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name and mesh size a. _____ Red Flint #30 <input checked="" type="checkbox"/> b. Volume added _____ ft ³
17. Source of water (attach analysis): _____		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 1.0 ft.	10. Screen material: _____ PVC Schedule 40 <input checked="" type="checkbox"/> 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 4.0 ft.	b. Manufacturer _____ Timco	
G. Filter pack, top _____ ft. MSL or 4.5 ft.	c. Slot size: _____ 0.010 in.	
H. Screen joint, top _____ ft. MSL or 5.0 ft.	d. Slotted length: _____ 10.0 ft.	
I. Well bottom _____ ft. MSL or 15.0 ft.	11. Backfill material (below filter pack): _____ None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ ft. MSL or 15.5 ft.		
K. Borehole, bottom _____ ft. MSL or 15.5 ft.		
L. Borehole, diameter 8.3 in.		
M. O.D. well casing 2.38 in.		
N. I.D. well casing 2.07 in.		

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

Signature _____ Firm **STS Consultants Ltd.** Tel: 414 359 3030
W Lake Park Drive Milwaukee, WI Fax: 414 359 0822

Please complete both forms 4400-113A and 4400-113B and return 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.

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Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Kenosha	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 / 1/4 NW SW Section Township Range <input checked="" type="checkbox"/> E or Gov't Lot #	31	2 N 23 W
Well Street Address 5512 19th Avenue		
Well City, Village or Town Kenosha		Well ZIP Code 53140
Subdivision Name		Lot # _____
Reason For Removal From Service Damaged	WI Unique Well # of Replacement Well PK574	

2. Facility / Owner Information

Facility Name Kenosha Iron & Metal		
Facility ID (FID or PWS) 230099870		
License/Permit/Monitoring # B-8		
Original Well Owner City of Kenosha		
Present Well Owner City of Kenosha		
Mailing Address of Present Owner 625 52nd Street		
City of Present Owner Kenosha	State WI	ZIP Code 53140

3. Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 03/22/2002
If a Well Construction Report is available, please attach.	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 15.5	Casing Diameter (in.) 2
Lower Drillhole Diameter (in.) 8	Casing Depth (ft.) 15.5
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) Unknown

4. Pump, Liner, Screen, Casing & Sealing Material

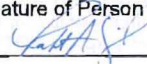
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)	Other (Explain): Gravity

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.5	1 - 50# bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Robert Cigale	License #	Date of Filling & Sealing (mm/dd/yyyy) 07/23/18	DNR Use Only	
Street or Route 6871 South Lovers Lane		Telephone Number (414) 427-1200	Date Received	Noted By
City Franklin	State WI	ZIP Code 53132	Signature of Person Doing Work 	
			Date Signed 07/25/18	

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

Facility/Project Name Kenosha Iron & Metal 86415XC	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name B-8
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or	Wis. Unique Well No/DNR Well Number PK574
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 03/22/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Dean & Steve
Distance Well Is From Waste/Source Boundary 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	North Shore Drilling

A. Protective pipe, top elevation _____ ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USC classification of soil near screen:

GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

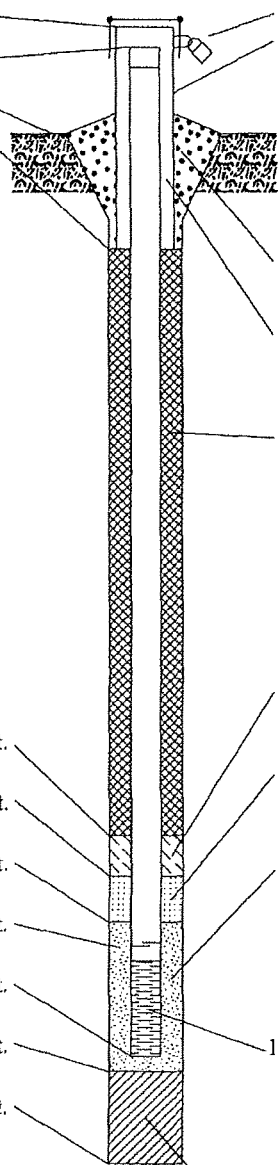
14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis): _____



E. Bentonite seal, top _____ ft. MSL or 1.0 ft.

F. Fine sand, top _____ ft. MSL or 4.0 ft.

G. Filter pack, top _____ ft. MSL or 4.5 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 15.0 ft.

J. Filter pack, bottom _____ ft. MSL or 15.5 ft.

K. Borehole, bottom _____ ft. MSL or 15.5 ft.

L. Borehole, diameter 8.3 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel 0 4
Other

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

3. Surface seal:
Bentonite 3 0
Concrete 0 1
Soil _____ Other

4. Material between well casing and protective pipe:
Bentonite 3 0
Sand _____ Other

5. Annular space seal:
a. Granular Bentonite 3 3
b. _____ Lbs/gal mud weight . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
d. _____ % Bentonite . . . Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

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

7. Fine sand material: Manufacturer, product name and mesh size
a. Red Flint #45-55
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. Red Flint #30
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: PVC Schedule 40
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other

b. Manufacturer Timco
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
Other

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

Signature _____ Firm STS Consultants Ltd. Tel: 414 359 3030
W Lake Park Drive Milwaukee, WI Fax: 414 359 0822

Please complete both forms 4400-113A and 4400-113B and return 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.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location B-9	County Kenosha	Original Well Owner (If Known) City of Kenosha / Kenosha Iron + Metal	
(If applicable) Gov't Lot _____ Grid Number _____		Present Well Owner City of Kenosha	
Grid Location ft. Γ N. Γ S., _____ ft. Γ E. Γ W.		Street or Route 5512 19th Avenue	
Civil Town Name Kenosha		City, State, Zip Code Kenosha, WI 53140	
Street Address of Well 5512 19th Avenue		Facility Well No. and/or Name (If Applicable) B-9	
City, Village Kenosha, WI 53140		Reason for Abandonment Blockage @ 8' bgs	
		Date of Abandonment 7/24/18	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 3/22/2002</p> <p><input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) 15' bgs Casing diameter (in.) 2" (From Ground Surface) Casing Depth (ft.) 15' bgs</p> <p>Lower Drillhole Diameter (in.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) 7.2' bgs</p> <p>Pump & Piping Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left In Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain Removed all PVC due to blockage</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)</p>		
<p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input checked="" type="checkbox"/> Chipped Bentonite</p>			

(7) Material Used to Fill Well/Drillhole	No. of Yards, Sacks		Mix Ratio or Mud Weight
	From (Ft.)	To (Ft.)	
3/8" Bentonite Chips	Surface	15.5' bgs	2 bags

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work	
Signature of Person Doing Work <i>[Signature]</i>	Date Signed 7/24/18
Street or Route P.O. Box 290	Telephone Number (608) 837-8772
City, State, Zip Code Sun Prairie, WI 53590	

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

Facility/Project Name Kenosha Iron & Metal 86415XC	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name B-9
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or	Wis. Unique Well No/DNR Well Number PK575
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 03/22/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 31, T. 2 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Dean & Steve
Distance Well Is From Waste/Source Boundary _____ 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	North Shore Drilling

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: _____ 4.0 in. b. Length: _____ 5.0 ft. 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 1.0 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Soil _____ Other <input checked="" type="checkbox"/>
12. USC 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 checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand _____ Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular 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. _____ 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 pellets <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 and mesh size a. _____ Red Flint #45-55 b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. _____ Red Flint #30 b. Volume added _____ ft ³
17. Source of water (attach analysis): _____	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 1.0 ft.	10. Screen material: _____ PVC Schedule 40 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 4.0 ft.	b. Manufacturer _____ Timco
G. Filter pack, top _____ ft. MSL or 4.5 ft.	c. Slot size: _____ 0.010 in.
H. Screen joint, top _____ ft. MSL or 5.0 ft.	d. Slotted length: _____ 10.0 ft.
I. Well bottom _____ ft. MSL or 15.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 15.5 ft.	
K. Borehole, bottom _____ ft. MSL or 15.5 ft.	
L. Borehole, diameter _____ 8.3 in.	
M. O.D. well casing _____ 2.38 in.	
N. I.D. well casing _____ 2.07 in.	

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

Signature _____ Firm **STS Consultants Ltd.** Tel: 414 359 3030
W Lake Park Drive Milwaukee, WI Fax: 414 359 0822

Please complete both forms 4400-113A and 4400-113B and return 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.

Laboratory Analytical Reports

April 16, 2018

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

RE: Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

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: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40167353001	TRIP BLANK	Water	04/10/18 08:00	04/12/18 09:50
40167353002	B-1	Water	04/10/18 10:49	04/12/18 09:50

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SAMPLE ANALYTE COUNT

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40167353001	TRIP BLANK	EPA 8260	LAP	64	PASI-G
40167353002	B-1	EPA 8260	LAP	64	PASI-G

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SUMMARY OF DETECTION

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40167353002	B-1					
EPA 8260	1,2-Dichloroethane	0.54J	ug/L	1.0	04/13/18 15:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60586797.2 KENOSHA IRON+METAL

Pace Project No.: 40167353

Sample: TRIP BLANK Lab ID: 40167353001 Collected: 04/10/18 08:00 Received: 04/12/18 09:50 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		04/13/18 13:04	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/13/18 13:04	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/13/18 13:04	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	75-25-2	L2
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/13/18 13:04	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/13/18 13:04	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/13/18 13:04	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/13/18 13:04	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/13/18 13:04	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/13/18 13:04	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/13/18 13:04	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/13/18 13:04	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/13/18 13:04	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/13/18 13:04	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/13/18 13:04	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/13/18 13:04	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/13/18 13:04	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/18 13:04	156-59-2	L1
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/18 13:04	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/13/18 13:04	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/13/18 13:04	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/13/18 13:04	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/13/18 13:04	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/13/18 13:04	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/13/18 13:04	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/13/18 13:04	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/13/18 13:04	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/13/18 13:04	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/13/18 13:04	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Sample: TRIP BLANK Lab ID: 40167353001 Collected: 04/10/18 08:00 Received: 04/12/18 09:50 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		04/13/18 13:04	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/13/18 13:04	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/13/18 13:04	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/13/18 13:04	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/13/18 13:04	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/13/18 13:04	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/13/18 13:04	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/13/18 13:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/13/18 13:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		04/13/18 13:04	460-00-4	HS
Dibromofluoromethane (S)	104	%	67-130		1		04/13/18 13:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/13/18 13:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60586797.2 KENOSHA IRON+METAL

Pace Project No.: 40167353

Sample: B-1 **Lab ID: 40167353002** Collected: 04/10/18 10:49 Received: 04/12/18 09:50 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		04/13/18 15:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/13/18 15:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/13/18 15:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	75-25-2	L2
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/13/18 15:20	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/13/18 15:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/13/18 15:20	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/13/18 15:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/13/18 15:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/13/18 15:20	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/13/18 15:20	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/13/18 15:20	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/13/18 15:20	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/13/18 15:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/13/18 15:20	75-34-3	
1,2-Dichloroethane	0.54J	ug/L	1.0	0.17	1		04/13/18 15:20	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/13/18 15:20	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/18 15:20	156-59-2	L1
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/13/18 15:20	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/13/18 15:20	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/13/18 15:20	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/13/18 15:20	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/13/18 15:20	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/13/18 15:20	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/13/18 15:20	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/13/18 15:20	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/13/18 15:20	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/13/18 15:20	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/13/18 15:20	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Sample: B-1 Lab ID: 40167353002 Collected: 04/10/18 10:49 Received: 04/12/18 09:50 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		04/13/18 15:20	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/13/18 15:20	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/13/18 15:20	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/13/18 15:20	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/13/18 15:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/13/18 15:20	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/13/18 15:20	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/13/18 15:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/13/18 15:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		04/13/18 15:20	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		04/13/18 15:20	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		04/13/18 15:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

QC Batch: 285991 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40167353001, 40167353002

METHOD BLANK: 1673116 Matrix: Water
Associated Lab Samples: 40167353001, 40167353002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	04/13/18 08:31	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/13/18 08:31	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/13/18 08:31	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/13/18 08:31	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/13/18 08:31	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/13/18 08:31	
1,1-Dichloropropene	ug/L	<0.44	1.0	04/13/18 08:31	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	04/13/18 08:31	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	04/13/18 08:31	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	04/13/18 08:31	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/13/18 08:31	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/13/18 08:31	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/13/18 08:31	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/13/18 08:31	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/13/18 08:31	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/13/18 08:31	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/13/18 08:31	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/13/18 08:31	
1,3-Dichloropropane	ug/L	<0.50	1.0	04/13/18 08:31	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/13/18 08:31	
2,2-Dichloropropane	ug/L	<0.48	1.0	04/13/18 08:31	
2-Chlorotoluene	ug/L	<0.50	1.0	04/13/18 08:31	
4-Chlorotoluene	ug/L	<0.21	1.0	04/13/18 08:31	
Benzene	ug/L	<0.50	1.0	04/13/18 08:31	
Bromobenzene	ug/L	<0.23	1.0	04/13/18 08:31	
Bromochloromethane	ug/L	<0.34	1.0	04/13/18 08:31	
Bromodichloromethane	ug/L	<0.50	1.0	04/13/18 08:31	
Bromoform	ug/L	<0.50	1.0	04/13/18 08:31	
Bromomethane	ug/L	<2.4	5.0	04/13/18 08:31	
Carbon tetrachloride	ug/L	<0.50	1.0	04/13/18 08:31	
Chlorobenzene	ug/L	<0.50	1.0	04/13/18 08:31	
Chloroethane	ug/L	<0.37	1.0	04/13/18 08:31	
Chloroform	ug/L	<2.5	5.0	04/13/18 08:31	
Chloromethane	ug/L	<0.50	1.0	04/13/18 08:31	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/13/18 08:31	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/13/18 08:31	
Dibromochloromethane	ug/L	<0.50	1.0	04/13/18 08:31	
Dibromomethane	ug/L	<0.43	1.0	04/13/18 08:31	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/13/18 08:31	
Diisopropyl ether	ug/L	<0.50	1.0	04/13/18 08:31	
Ethylbenzene	ug/L	<0.50	1.0	04/13/18 08:31	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

METHOD BLANK: 1673116 Matrix: Water
Associated Lab Samples: 40167353001, 40167353002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/13/18 08:31	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	04/13/18 08:31	
m&p-Xylene	ug/L	<1.0	2.0	04/13/18 08:31	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/13/18 08:31	
Methylene Chloride	ug/L	<0.23	1.0	04/13/18 08:31	
n-Butylbenzene	ug/L	<0.50	1.0	04/13/18 08:31	
n-Propylbenzene	ug/L	<0.50	1.0	04/13/18 08:31	
Naphthalene	ug/L	<2.5	5.0	04/13/18 08:31	
o-Xylene	ug/L	<0.50	1.0	04/13/18 08:31	
p-Isopropyltoluene	ug/L	<0.50	1.0	04/13/18 08:31	
sec-Butylbenzene	ug/L	<2.2	5.0	04/13/18 08:31	
Styrene	ug/L	<0.50	1.0	04/13/18 08:31	
tert-Butylbenzene	ug/L	<0.18	1.0	04/13/18 08:31	
Tetrachloroethene	ug/L	<0.50	1.0	04/13/18 08:31	
Toluene	ug/L	<0.50	1.0	04/13/18 08:31	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/13/18 08:31	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/13/18 08:31	
Trichloroethene	ug/L	<0.33	1.0	04/13/18 08:31	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/13/18 08:31	
Vinyl chloride	ug/L	<0.18	1.0	04/13/18 08:31	
4-Bromofluorobenzene (S)	%	97	61-130	04/13/18 08:31	
Dibromofluoromethane (S)	%	103	67-130	04/13/18 08:31	
Toluene-d8 (S)	%	98	70-130	04/13/18 08:31	

LABORATORY CONTROL SAMPLE: 1673117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	70-130	
1,1,2-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethane	ug/L	20	21.9	109	71-132	
1,1-Dichloroethene	ug/L	20	22.9	114	75-130	
1,2,4-Trichlorobenzene	ug/L	20	16.1	80	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	13.2	66	63-123	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	93	70-130	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	22.0	110	70-131	
1,2-Dichloropropane	ug/L	20	18.1	91	80-120	
1,3-Dichlorobenzene	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	19.2	96	70-130	
Benzene	ug/L	20	21.0	105	73-145	
Bromodichloromethane	ug/L	20	16.5	83	70-130	
Bromoform	ug/L	20	12.0	60	67-130 L2	
Bromomethane	ug/L	20	17.4	87	26-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

LABORATORY CONTROL SAMPLE: 1673117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	17.5	87	70-133	
Chlorobenzene	ug/L	20	19.7	99	70-130	
Chloroethane	ug/L	20	19.3	96	58-120	
Chloroform	ug/L	20	22.1	111	80-121	
Chloromethane	ug/L	20	16.9	84	40-127	
cis-1,2-Dichloroethene	ug/L	20	26.5	132	70-130	L1
cis-1,3-Dichloropropene	ug/L	20	15.7	78	70-130	
Dibromochloromethane	ug/L	20	15.0	75	70-130	
Dichlorodifluoromethane	ug/L	20	15.2	76	20-135	
Ethylbenzene	ug/L	20	18.9	95	87-129	
Isopropylbenzene (Cumene)	ug/L	20	19.5	98	70-130	
m&p-Xylene	ug/L	40	39.4	99	70-130	
Methyl-tert-butyl ether	ug/L	20	21.9	110	66-143	
Methylene Chloride	ug/L	20	23.3	116	70-130	
o-Xylene	ug/L	20	19.8	99	70-130	
Styrene	ug/L	20	19.5	97	70-130	
Tetrachloroethene	ug/L	20	17.7	89	70-130	
Toluene	ug/L	20	19.9	99	82-130	
trans-1,2-Dichloroethene	ug/L	20	22.1	110	75-132	
trans-1,3-Dichloropropene	ug/L	20	14.8	74	70-130	
Trichloroethene	ug/L	20	20.5	103	70-130	
Trichlorofluoromethane	ug/L	20	24.7	123	76-133	
Vinyl chloride	ug/L	20	18.8	94	57-136	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			110	67-130	
Toluene-d8 (S)	%			99	70-130	

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QUALIFIERS

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

- HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60586797.2 KENOSHA IRON+METAL
Pace Project No.: 40167353

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40167353001	TRIP BLANK	EPA 8260	285991		
40167353002	B-1	EPA 8260	285991		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

40167352
Page 15 of 17

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 6 of 1
Company: AECOM - Milw	Report To: Lanette Altenbach	Attention: Accounts Payable/Finance Department	
Address: 1555 N. River Center Dr., Suite 214	Copy To: Paul Lindquist	Company Name: City of Kenosha	
Milwaukee, WI 53212		Address: 652 52nd St., Kenosha, WI 53140	
Email To: Lanette.Altensch@aecom.com	Purchase Order No.:	Pace Quote Reference:	
Phone: 414-577-1363 Fax:	Project Name: KCP Group - Excavation Kenosha Iron + Metal	Pace Project Manager: Chris Hyska	
Requested Due Date/TAT: Standard	Project Number: 60520046-1 60586797.2	Pace Profile #: (2430) Kenosha work	

REGULATORY AGENCY

PDES GROUND WATER DRINKING WATER

UST RCRA OTHER _____

SITE LOCATION GA IL IN MI NC

OH WI OTHER _____

ITEM #	Section D Required Client Information		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives								Filtered (Y/N)	Requested Analysis:	Pace Project Number Lab I.D.	
	SAMPLE ID				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				Residual Chlorine (Y/N)
	One Character per box. (A-Z, 0-9 / .-)				DATE	TIME	DATE	TIME														
	Samples IDs MUST BE UNIQUE				Valid Matrix Codes	CODE																
1	Trip Blnk	001	WT		7/10/18	0800	-	-														
2	B-1	002	WT		4/10/18	1049	-	-														
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Zach Allen / AECOM	4/11/18	1200	Mary Fannin	4/11/18	1227		Y/N	Y/N	Y/N
Mary Fannin	4/18/18	1745					Y/N	Y/N	Y/N
ES Logistics	4/12/18	0930	William Pace	4/12/18	0950	RO±	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zach Allen

SIGNATURE of SAMPLER: *Zach Allen* DATE Signed (MM/DD/YY) 04/10/18

Temp in °C: _____

Received on Ice: Custody Sealed Cooler: Samples Intact:

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40167357

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN			
001																	2																			2.5 / 5 / 10
002																	3																			2.5 / 5 / 10
003																																				2.5 / 5 / 10
004																																				2.5 / 5 / 10
005																																				2.5 / 5 / 10
006																																				2.5 / 5 / 10
007																																				2.5 / 5 / 10
008																																				2.5 / 5 / 10
009																																				2.5 / 5 / 10
010																																				2.5 / 5 / 10
011																																				2.5 / 5 / 10
012																																				2.5 / 5 / 10
013																																				2.5 / 5 / 10
014																																				2.5 / 5 / 10
015																																				2.5 / 5 / 10
016																																				2.5 / 5 / 10
017																																				2.5 / 5 / 10
018																																				2.5 / 5 / 10
019																																				2.5 / 5 / 10
020																																				2.5 / 5 / 10

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

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

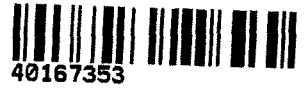
 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM

Project #: **WO# : 40167353**

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



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 SR - N/A Type of Ice: Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: No I ICorr: _____

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

Person examining contents:
 Date: 4/12/18
 Initials: SSM

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <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 MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
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.
-Includes date/time/ID/Analysis Matrix:	<u>SSM 4/12/18</u>	<u>002 - No ID's</u> <u>SSM 4/12/18</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>N/A</u>	

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

Project Manager Review: [Signature] Date: 4/12/18

August 17, 2018

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

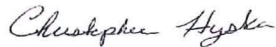
RE: Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

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: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40173933001	TRIP BLANK	Water	08/09/18 13:05	08/11/18 09:45
40173933002	B-5	Water	08/09/18 13:10	08/11/18 09:45
40173933003	B-5 DUP	Water	08/09/18 13:10	08/11/18 09:45
40173933004	B-9R	Water	08/09/18 13:25	08/11/18 09:45

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SAMPLE ANALYTE COUNT

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40173933001	TRIP BLANK	EPA 8260	HNW	63	PASI-G
40173933002	B-5	EPA 8260	HNW	63	PASI-G
40173933003	B-5 DUP	EPA 8260	HNW	63	PASI-G
40173933004	B-9R	EPA 8260	HNW	63	PASI-G

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL

Pace Project No.: 40173933

Sample: TRIP BLANK Lab ID: 40173933001 Collected: 08/09/18 13:05 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		08/14/18 18:14	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/14/18 18:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/14/18 18:14	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/14/18 18:14	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/14/18 18:14	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/14/18 18:14	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/14/18 18:14	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/14/18 18:14	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/14/18 18:14	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/14/18 18:14	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/14/18 18:14	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/14/18 18:14	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/14/18 18:14	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/14/18 18:14	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/14/18 18:14	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/14/18 18:14	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/14/18 18:14	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/14/18 18:14	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/14/18 18:14	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/14/18 18:14	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/14/18 18:14	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/14/18 18:14	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/14/18 18:14	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/14/18 18:14	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/14/18 18:14	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/14/18 18:14	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/14/18 18:14	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/14/18 18:14	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/14/18 18:14	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/14/18 18:14	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/14/18 18:14	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/14/18 18:14	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/14/18 18:14	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/14/18 18:14	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/14/18 18:14	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/14/18 18:14	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/14/18 18:14	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/14/18 18:14	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	2.7	0.39	1		08/14/18 18:14	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/14/18 18:14	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/14/18 18:14	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/14/18 18:14	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/14/18 18:14	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/14/18 18:14	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/14/18 18:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/14/18 18:14	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Sample: TRIP BLANK Lab ID: 40173933001 Collected: 08/09/18 13:05 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/14/18 18:14	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/14/18 18:14	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/14/18 18:14	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/14/18 18:14	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/14/18 18:14	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/14/18 18:14	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/14/18 18:14	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/14/18 18:14	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/14/18 18:14	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/14/18 18:14	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/14/18 18:14	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/14/18 18:14	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/14/18 18:14	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/14/18 18:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		08/14/18 18:14	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		08/14/18 18:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/14/18 18:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Sample: B-5 Lab ID: 40173933002 Collected: 08/09/18 13:10 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		08/15/18 15:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/15/18 15:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/15/18 15:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/15/18 15:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/15/18 15:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/15/18 15:36	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/15/18 15:36	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/15/18 15:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/15/18 15:36	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/15/18 15:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/15/18 15:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/15/18 15:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/15/18 15:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/15/18 15:36	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/15/18 15:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/15/18 15:36	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/15/18 15:36	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/15/18 15:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/15/18 15:36	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/15/18 15:36	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/15/18 15:36	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/15/18 15:36	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/15/18 15:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/15/18 15:36	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/15/18 15:36	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/15/18 15:36	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/15/18 15:36	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/15/18 15:36	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/15/18 15:36	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/15/18 15:36	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/15/18 15:36	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/15/18 15:36	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/15/18 15:36	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/15/18 15:36	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/15/18 15:36	10061-02-6	L1
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/15/18 15:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/15/18 15:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/15/18 15:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	2.7	0.39	1		08/15/18 15:36	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/15/18 15:36	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/15/18 15:36	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/15/18 15:36	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/15/18 15:36	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/15/18 15:36	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/15/18 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/15/18 15:36	630-20-6	

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Sample: B-5 Lab ID: 40173933002 Collected: 08/09/18 13:10 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/15/18 15:36	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/15/18 15:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/15/18 15:36	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/15/18 15:36	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/15/18 15:36	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/15/18 15:36	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/15/18 15:36	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/15/18 15:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/15/18 15:36	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/15/18 15:36	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/15/18 15:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/15/18 15:36	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/15/18 15:36	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/15/18 15:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/15/18 15:36	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		08/15/18 15:36	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		08/15/18 15:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL

Pace Project No.: 40173933

Sample: B-5 DUP Lab ID: 40173933003 Collected: 08/09/18 13:10 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		08/15/18 15:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/15/18 15:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/15/18 15:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/15/18 15:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/15/18 15:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/15/18 15:57	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/15/18 15:57	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/15/18 15:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/15/18 15:57	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/15/18 15:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/15/18 15:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/15/18 15:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/15/18 15:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/15/18 15:57	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/15/18 15:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/15/18 15:57	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/15/18 15:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/15/18 15:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/15/18 15:57	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/15/18 15:57	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/15/18 15:57	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/15/18 15:57	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/15/18 15:57	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/15/18 15:57	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/15/18 15:57	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/15/18 15:57	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/15/18 15:57	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/15/18 15:57	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/15/18 15:57	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/15/18 15:57	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/15/18 15:57	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/15/18 15:57	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/15/18 15:57	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/15/18 15:57	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/15/18 15:57	10061-02-6	L1
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/15/18 15:57	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/15/18 15:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/15/18 15:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	2.7	0.39	1		08/15/18 15:57	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/15/18 15:57	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/15/18 15:57	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/15/18 15:57	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/15/18 15:57	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/15/18 15:57	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/15/18 15:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/15/18 15:57	630-20-6	

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Sample: B-5 DUP Lab ID: 40173933003 Collected: 08/09/18 13:10 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/15/18 15:57	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/15/18 15:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/15/18 15:57	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/15/18 15:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/15/18 15:57	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/15/18 15:57	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/15/18 15:57	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/15/18 15:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/15/18 15:57	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/15/18 15:57	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/15/18 15:57	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/15/18 15:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/15/18 15:57	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/15/18 15:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/15/18 15:57	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		08/15/18 15:57	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		08/15/18 15:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL
 Pace Project No.: 40173933

Sample: B-9R Lab ID: 40173933004 Collected: 08/09/18 13:25 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		08/14/18 16:44	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/14/18 16:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/14/18 16:44	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/14/18 16:44	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/14/18 16:44	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/14/18 16:44	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/14/18 16:44	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/14/18 16:44	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/14/18 16:44	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/14/18 16:44	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/14/18 16:44	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/14/18 16:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/14/18 16:44	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/14/18 16:44	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/14/18 16:44	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/14/18 16:44	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/14/18 16:44	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/14/18 16:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/14/18 16:44	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/14/18 16:44	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/14/18 16:44	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/14/18 16:44	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/14/18 16:44	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/14/18 16:44	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/14/18 16:44	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/14/18 16:44	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/14/18 16:44	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/14/18 16:44	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/14/18 16:44	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/14/18 16:44	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/14/18 16:44	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/14/18 16:44	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/14/18 16:44	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/14/18 16:44	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/14/18 16:44	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/14/18 16:44	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/14/18 16:44	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/14/18 16:44	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	2.7	0.39	1		08/14/18 16:44	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/14/18 16:44	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/14/18 16:44	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/14/18 16:44	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/14/18 16:44	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/14/18 16:44	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/14/18 16:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/14/18 16:44	630-20-6	

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ANALYTICAL RESULTS

Project: 60568797 KENOSHA IRON & METAL
 Pace Project No.: 40173933

Sample: B-9R Lab ID: 40173933004 Collected: 08/09/18 13:25 Received: 08/11/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/14/18 16:44	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/14/18 16:44	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/14/18 16:44	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/14/18 16:44	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/14/18 16:44	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/14/18 16:44	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/14/18 16:44	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/14/18 16:44	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/14/18 16:44	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/14/18 16:44	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/14/18 16:44	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/14/18 16:44	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/14/18 16:44	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/14/18 16:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/14/18 16:44	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		08/14/18 16:44	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/14/18 16:44	2037-26-5	

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

QC Batch: 297023 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40173933001, 40173933004

METHOD BLANK: 1735117 Matrix: Water
Associated Lab Samples: 40173933001, 40173933004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	08/14/18 09:16	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/14/18 09:16	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	08/14/18 09:16	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	08/14/18 09:16	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/14/18 09:16	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/14/18 09:16	
1,1-Dichloropropene	ug/L	<0.54	1.8	08/14/18 09:16	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	08/14/18 09:16	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	08/14/18 09:16	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/14/18 09:16	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/14/18 09:16	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	08/14/18 09:16	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	08/14/18 09:16	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	08/14/18 09:16	
1,2-Dichloroethane	ug/L	<0.28	1.0	08/14/18 09:16	
1,2-Dichloropropane	ug/L	<0.28	1.0	08/14/18 09:16	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/14/18 09:16	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	08/14/18 09:16	
1,3-Dichloropropane	ug/L	<0.83	2.8	08/14/18 09:16	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	08/14/18 09:16	
2,2-Dichloropropane	ug/L	<2.3	7.6	08/14/18 09:16	
2-Chlorotoluene	ug/L	<0.93	5.0	08/14/18 09:16	
4-Chlorotoluene	ug/L	<0.76	2.5	08/14/18 09:16	
Benzene	ug/L	<0.25	1.0	08/14/18 09:16	
Bromobenzene	ug/L	<0.24	1.0	08/14/18 09:16	
Bromochloromethane	ug/L	<0.36	5.0	08/14/18 09:16	
Bromodichloromethane	ug/L	<0.36	1.2	08/14/18 09:16	
Bromoform	ug/L	<4.0	13.2	08/14/18 09:16	
Bromomethane	ug/L	<0.97	5.0	08/14/18 09:16	
Carbon tetrachloride	ug/L	<0.17	1.0	08/14/18 09:16	
Chlorobenzene	ug/L	<0.71	2.4	08/14/18 09:16	
Chloroethane	ug/L	<1.3	5.0	08/14/18 09:16	
Chloroform	ug/L	<1.3	5.0	08/14/18 09:16	
Chloromethane	ug/L	<2.2	7.3	08/14/18 09:16	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	08/14/18 09:16	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	08/14/18 09:16	
Dibromochloromethane	ug/L	<2.6	8.7	08/14/18 09:16	
Dibromomethane	ug/L	<0.94	3.1	08/14/18 09:16	
Dichlorodifluoromethane	ug/L	<0.50	5.0	08/14/18 09:16	
Diisopropyl ether	ug/L	<1.9	6.3	08/14/18 09:16	
Ethylbenzene	ug/L	<0.22	1.0	08/14/18 09:16	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

METHOD BLANK: 1735117 Matrix: Water
Associated Lab Samples: 40173933001, 40173933004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	08/14/18 09:16	
Isopropylbenzene (Cumene)	ug/L	<0.39	2.7	08/14/18 09:16	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/14/18 09:16	
Methylene Chloride	ug/L	<0.58	5.0	08/14/18 09:16	
n-Butylbenzene	ug/L	<0.71	2.4	08/14/18 09:16	
n-Propylbenzene	ug/L	<0.81	5.0	08/14/18 09:16	
Naphthalene	ug/L	<1.2	5.0	08/14/18 09:16	
p-Isopropyltoluene	ug/L	<0.80	2.7	08/14/18 09:16	
sec-Butylbenzene	ug/L	<0.85	5.0	08/14/18 09:16	
Styrene	ug/L	<0.47	1.6	08/14/18 09:16	
tert-Butylbenzene	ug/L	<0.30	1.0	08/14/18 09:16	
Tetrachloroethene	ug/L	<0.33	1.1	08/14/18 09:16	
Toluene	ug/L	<0.17	5.0	08/14/18 09:16	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	08/14/18 09:16	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	08/14/18 09:16	
Trichloroethene	ug/L	<0.26	1.0	08/14/18 09:16	
Trichlorofluoromethane	ug/L	<0.21	1.0	08/14/18 09:16	
Vinyl chloride	ug/L	<0.17	1.0	08/14/18 09:16	
Xylene (Total)	ug/L	<1.5	3.0	08/14/18 09:16	
4-Bromofluorobenzene (S)	%	88	70-130	08/14/18 09:16	
Dibromofluoromethane (S)	%	108	70-130	08/14/18 09:16	
Toluene-d8 (S)	%	99	70-130	08/14/18 09:16	

LABORATORY CONTROL SAMPLE: 1735118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.9	109	70-133	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	103	67-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	23.6	118	70-134	
1,1-Dichloroethene	ug/L	20	22.4	112	75-132	
1,2,4-Trichlorobenzene	ug/L	20	16.7	84	68-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	60-126	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane	ug/L	20	21.4	107	73-134	
1,2-Dichloropropane	ug/L	20	21.6	108	79-128	
1,3-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	101	70-130	
Benzene	ug/L	20	20.6	103	69-137	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	20.7	104	64-133	
Bromomethane	ug/L	20	10.1	51	29-123	
Carbon tetrachloride	ug/L	20	22.0	110	73-142	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

LABORATORY CONTROL SAMPLE: 1735118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	20.7	104	70-130	
Chloroethane	ug/L	20	21.0	105	59-133	
Chloroform	ug/L	20	25.4	127	80-129	
Chloromethane	ug/L	20	15.7	78	27-125	
cis-1,2-Dichloroethene	ug/L	20	22.3	112	70-134	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	20.1	100	70-130	
Dichlorodifluoromethane	ug/L	20	10.6	53	12-127	
Ethylbenzene	ug/L	20	20.1	101	86-127	
Isopropylbenzene (Cumene)	ug/L	20	19.4	97	70-130	
Methyl-tert-butyl ether	ug/L	20	19.8	99	65-136	
Methylene Chloride	ug/L	20	22.1	111	72-133	
Styrene	ug/L	20	20.4	102	70-130	
Tetrachloroethene	ug/L	20	20.5	103	70-130	
Toluene	ug/L	20	20.8	104	84-124	
trans-1,2-Dichloroethene	ug/L	20	22.8	114	70-133	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	67-130	
Trichloroethene	ug/L	20	21.2	106	70-130	
Trichlorofluoromethane	ug/L	20	23.2	116	69-147	
Vinyl chloride	ug/L	20	19.0	95	48-134	
Xylene (Total)	ug/L	60	62.1	104	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1735317 1735318

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual		
		40173924004 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result	
1,1,1-Trichloroethane	ug/L	<20.0	50	50	53.6	53.1	107	106	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<20.0	50	50	49.4	51.8	99	104	67-133	5	20	
1,1,2-Trichloroethane	ug/L	<100	50	50	51.9	51.8	104	104	70-130	0	20	
1,1-Dichloroethane	ug/L	<20.0	50	50	55.7	51.0	111	102	70-139	9	20	
1,1-Dichloroethene	ug/L	<20.0	50	50	54.2	50.5	108	101	72-137	7	20	
1,2,4-Trichlorobenzene	ug/L	<100	50	50	55.1	53.5	110	107	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<118	50	50	59.1	60.6	118	121	60-130	3	21	
1,2-Dibromoethane (EDB)	ug/L	<55.3	50	50	51.7	51.9	103	104	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<47.0	50	50	52.8	51.9	106	104	70-130	2	20	
1,2-Dichloroethane	ug/L	<20.0	50	50	49.7	48.1	99	96	71-137	3	20	
1,2-Dichloropropane	ug/L	<20.0	50	50	51.4	51.7	103	103	78-130	1	20	
1,3-Dichlorobenzene	ug/L	<41.9	50	50	50.1	50.6	100	101	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<62.9	50	50	48.4	48.5	97	97	70-130	0	20	
Benzene	ug/L	2720	50	50	2090	1670	-1270	-2110	66-143	22	20	E,M1, R1
Bromodichloromethane	ug/L	<24.2	50	50	51.3	50.7	103	101	70-130	1	20	

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1735317		1735318		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40173924004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Bromoform	ug/L	<265	50	50	48.7	47.0	97	94	64-134	4	20	
Bromomethane	ug/L	<100	50	50	23.7	22.5	47	45	29-136	5	25	
Carbon tetrachloride	ug/L	<20.0	50	50	54.3	52.0	109	104	73-142	4	20	
Chlorobenzene	ug/L	<47.4	50	50	51.2	50.3	102	101	70-130	2	20	
Chloroethane	ug/L	<100	50	50	50.7	46.2	101	92	58-138	9	20	
Chloroform	ug/L	<100	50	50	58.7	48.7	104	84	80-131	18	20	
Chloromethane	ug/L	<146	50	50	36.7	34.3	73	69	24-125	7	20	
cis-1,2-Dichloroethene	ug/L	<20.0	50	50	53.6	50.1	107	100	68-137	7	22	
cis-1,3-Dichloropropene	ug/L	<242	50	50	55.6	57.2	111	114	70-130	3	20	
Dibromochloromethane	ug/L	<173	50	50	52.0	51.4	104	103	70-131	1	20	
Dichlorodifluoromethane	ug/L	<100	50	50	25.6	24.9	51	50	10-127	2	20	
Ethylbenzene	ug/L	531	50	50	873	816	683	569	81-136	7	20	E,M1
Isopropylbenzene (Cumene)	ug/L	<53.3	50	50	76.0	72.8	76	70	70-132	4	20	
Methyl-tert-butyl ether	ug/L	<83.1	50	50	50.0	48.6	100	97	58-142	3	23	
Methylene Chloride	ug/L	<100	50	50	50.3	42.9	101	86	69-137	16	20	
Styrene	ug/L	<31.0	50	50	53.4	51.2	107	102	70-130	4	20	
Tetrachloroethene	ug/L	<21.8	50	50	50.7	49.6	101	99	70-132	2	20	
Toluene	ug/L	<100	50	50	56.7	56.9	104	104	81-130	0	20	
trans-1,2-Dichloroethene	ug/L	<72.7	50	50	55.0	50.2	110	100	70-136	9	20	
trans-1,3-Dichloropropene	ug/L	<291	50	50	48.5	49.4	97	99	67-130	2	20	
Trichloroethene	ug/L	<20.0	50	50	52.5	52.3	105	105	70-131	0	20	
Trichlorofluoromethane	ug/L	<20.0	50	50	53.9	47.7	108	95	66-150	12	20	
Vinyl chloride	ug/L	<20.0	50	50	48.6	44.1	97	88	46-134	10	20	
Xylene (Total)	ug/L	1150	150	150	2220	1970	712	547	70-134	12	20	ES,MS
4-Bromofluorobenzene (S)	%						103	101	70-130			
Dibromofluoromethane (S)	%						101	100	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

QC Batch: 297235 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40173933002, 40173933003

METHOD BLANK: 1735827 Matrix: Water
Associated Lab Samples: 40173933002, 40173933003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	08/15/18 08:48	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/15/18 08:48	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	08/15/18 08:48	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	08/15/18 08:48	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/15/18 08:48	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/15/18 08:48	
1,1-Dichloropropene	ug/L	<0.54	1.8	08/15/18 08:48	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	08/15/18 08:48	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	08/15/18 08:48	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/15/18 08:48	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/15/18 08:48	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	08/15/18 08:48	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	08/15/18 08:48	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	08/15/18 08:48	
1,2-Dichloroethane	ug/L	<0.28	1.0	08/15/18 08:48	
1,2-Dichloropropane	ug/L	<0.28	1.0	08/15/18 08:48	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/15/18 08:48	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	08/15/18 08:48	
1,3-Dichloropropane	ug/L	<0.83	2.8	08/15/18 08:48	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	08/15/18 08:48	
2,2-Dichloropropane	ug/L	<2.3	7.6	08/15/18 08:48	
2-Chlorotoluene	ug/L	<0.93	5.0	08/15/18 08:48	
4-Chlorotoluene	ug/L	<0.76	2.5	08/15/18 08:48	
Benzene	ug/L	<0.25	1.0	08/15/18 08:48	
Bromobenzene	ug/L	<0.24	1.0	08/15/18 08:48	
Bromochloromethane	ug/L	<0.36	5.0	08/15/18 08:48	
Bromodichloromethane	ug/L	<0.36	1.2	08/15/18 08:48	
Bromoform	ug/L	<4.0	13.2	08/15/18 08:48	
Bromomethane	ug/L	<0.97	5.0	08/15/18 08:48	
Carbon tetrachloride	ug/L	<0.17	1.0	08/15/18 08:48	
Chlorobenzene	ug/L	<0.71	2.4	08/15/18 08:48	
Chloroethane	ug/L	<1.3	5.0	08/15/18 08:48	
Chloroform	ug/L	<1.3	5.0	08/15/18 08:48	
Chloromethane	ug/L	<2.2	7.3	08/15/18 08:48	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	08/15/18 08:48	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	08/15/18 08:48	
Dibromochloromethane	ug/L	<2.6	8.7	08/15/18 08:48	
Dibromomethane	ug/L	<0.94	3.1	08/15/18 08:48	
Dichlorodifluoromethane	ug/L	<0.50	5.0	08/15/18 08:48	
Diisopropyl ether	ug/L	<1.9	6.3	08/15/18 08:48	
Ethylbenzene	ug/L	<0.22	1.0	08/15/18 08:48	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

METHOD BLANK: 1735827 Matrix: Water
Associated Lab Samples: 40173933002, 40173933003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	08/15/18 08:48	
Isopropylbenzene (Cumene)	ug/L	<0.39	2.7	08/15/18 08:48	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/15/18 08:48	
Methylene Chloride	ug/L	<0.58	5.0	08/15/18 08:48	
n-Butylbenzene	ug/L	<0.71	2.4	08/15/18 08:48	
n-Propylbenzene	ug/L	<0.81	5.0	08/15/18 08:48	
Naphthalene	ug/L	<1.2	5.0	08/15/18 08:48	
p-Isopropyltoluene	ug/L	<0.80	2.7	08/15/18 08:48	
sec-Butylbenzene	ug/L	<0.85	5.0	08/15/18 08:48	
Styrene	ug/L	<0.47	1.6	08/15/18 08:48	
tert-Butylbenzene	ug/L	<0.30	1.0	08/15/18 08:48	
Tetrachloroethene	ug/L	<0.33	1.1	08/15/18 08:48	
Toluene	ug/L	<0.17	5.0	08/15/18 08:48	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	08/15/18 08:48	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	08/15/18 08:48	
Trichloroethene	ug/L	<0.26	1.0	08/15/18 08:48	
Trichlorofluoromethane	ug/L	<0.21	1.0	08/15/18 08:48	
Vinyl chloride	ug/L	<0.17	1.0	08/15/18 08:48	
Xylene (Total)	ug/L	<1.5	3.0	08/15/18 08:48	
4-Bromofluorobenzene (S)	%	92	70-130	08/15/18 08:48	
Dibromofluoromethane (S)	%	98	70-130	08/15/18 08:48	
Toluene-d8 (S)	%	101	70-130	08/15/18 08:48	

LABORATORY CONTROL SAMPLE: 1735828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.0	106	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	56.7	113	67-130	
1,1,2-Trichloroethane	ug/L	50	58.0	116	70-130	
1,1-Dichloroethane	ug/L	50	50.0	100	70-134	
1,1-Dichloroethene	ug/L	50	50.1	100	75-132	
1,2,4-Trichlorobenzene	ug/L	50	53.9	108	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	54.1	108	70-130	
1,2-Dichlorobenzene	ug/L	50	53.8	108	70-130	
1,2-Dichloroethane	ug/L	50	54.5	109	73-134	
1,2-Dichloropropane	ug/L	50	56.4	113	79-128	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,4-Dichlorobenzene	ug/L	50	53.6	107	70-130	
Benzene	ug/L	50	54.4	109	69-137	
Bromodichloromethane	ug/L	50	55.3	111	70-130	
Bromoform	ug/L	50	50.1	100	64-133	
Bromomethane	ug/L	50	32.7	65	29-123	
Carbon tetrachloride	ug/L	50	54.0	108	73-142	

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

LABORATORY CONTROL SAMPLE: 1735828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	54.0	108	70-130	
Chloroethane	ug/L	50	44.4	89	59-133	
Chloroform	ug/L	50	53.8	108	80-129	
Chloromethane	ug/L	50	35.0	70	27-125	
cis-1,2-Dichloroethene	ug/L	50	53.6	107	70-134	
cis-1,3-Dichloropropene	ug/L	50	57.2	114	70-130	
Dibromochloromethane	ug/L	50	54.4	109	70-130	
Dichlorodifluoromethane	ug/L	50	23.0	46	12-127	
Ethylbenzene	ug/L	50	58.0	116	86-127	
Isopropylbenzene (Cumene)	ug/L	50	58.9	118	70-130	
Methyl-tert-butyl ether	ug/L	50	46.5	93	65-136	
Methylene Chloride	ug/L	50	46.9	94	72-133	
Styrene	ug/L	50	58.1	116	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
Toluene	ug/L	50	54.9	110	84-124	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	70-133	
trans-1,3-Dichloropropene	ug/L	50	65.3	131	67-130	L1
Trichloroethene	ug/L	50	55.0	110	70-130	
Trichlorofluoromethane	ug/L	50	51.7	103	69-147	
Vinyl chloride	ug/L	50	44.2	88	48-134	
Xylene (Total)	ug/L	150	170	113	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1735888 1735889

Parameter	Units	40174012004		MSD		MSD		% Rec		Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	RPD	
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50.8	50.9	102	102	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	54.2	55.5	108	111	67-133	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.2	54.4	110	109	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	47.9	47.8	96	96	70-139	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	48.6	49.0	97	98	72-137	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	51.5	52.3	103	104	68-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	53.0	55.4	106	111	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	51.3	51.6	103	103	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.2	52.1	102	104	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	51.7	51.9	103	104	71-137	0	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	55.7	53.2	111	106	78-130	5	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.8	52.2	102	104	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.1	52.3	102	105	70-130	2	20	
Benzene	ug/L	<0.25	50	50	52.0	52.7	104	105	66-143	1	20	
Bromodichloromethane	ug/L	<0.36	50	50	52.3	52.2	105	104	70-130	0	20	

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QUALITY CONTROL DATA

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1735888		1735889		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40174012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Bromoform	ug/L	<4.0	50	50	47.4	47.3	95	95	64-134	0	20		
Bromomethane	ug/L	<0.97	50	50	33.3	35.7	67	71	29-136	7	25		
Carbon tetrachloride	ug/L	<0.17	50	50	51.0	51.3	102	103	73-142	1	20		
Chlorobenzene	ug/L	<0.71	50	50	51.9	52.8	104	106	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	42.2	44.3	84	89	58-138	5	20		
Chloroform	ug/L	<1.3	50	50	51.5	52.0	103	104	80-131	1	20		
Chloromethane	ug/L	<2.2	50	50	34.5	36.7	69	73	24-125	6	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.8	51.7	104	103	68-137	0	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	54.1	53.4	108	107	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.6	51.0	103	102	70-131	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	22.4	23.4	45	47	10-127	4	20		
Ethylbenzene	ug/L	<0.22	50	50	55.9	55.4	112	111	81-136	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	56.8	57.3	114	115	70-132	1	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.9	44.1	88	88	58-142	0	23		
Methylene Chloride	ug/L	<0.58	50	50	45.9	47.5	92	95	69-137	3	20		
Styrene	ug/L	<0.47	50	50	55.6	55.8	111	112	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	51.0	51.1	102	102	70-132	0	20		
Toluene	ug/L	<0.17	50	50	53.6	54.0	107	108	81-130	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	48.8	48.1	98	96	70-136	2	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	62.6	62.3	125	125	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	53.2	52.4	106	105	70-131	2	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	49.7	50.1	99	100	66-150	1	20		
Vinyl chloride	ug/L	<0.17	50	50	40.6	43.0	81	86	46-134	6	20		
Xylene (Total)	ug/L	<1.5	150	150	164	165	109	110	70-134	1	20		
4-Bromofluorobenzene (S)	%						99	98	70-130				
Dibromofluoromethane (S)	%						100	96	70-130				
Toluene-d8 (S)	%						101	102	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: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above LOD.
J - Estimated concentration at or above the LOD and below the LOQ.
LOD - Limit of Detection adjusted for dilution factor and percent moisture.
LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.
ES The reported result is estimated because one or more of the constituent results are qualified as such.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60568797 KENOSHA IRON & METAL
Pace Project No.: 40173933

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40173933001	TRIP BLANK	EPA 8260	297023		
40173933002	B-5	EPA 8260	297235		
40173933003	B-5 DUP	EPA 8260	297235		
40173933004	B-9R	EPA 8260	297023		

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY / Analytical Request Document

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

40173933

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AECOM - Milw	Report To: Lanette Altenbach	Attention: Accounts Payable/Finance Department
Address: 1555 N. River Center Dr., Suite 214	Copy To:	Company Name: City of Kenosha
Milwaukee, WI 53212		Address: 652 52nd St., Kenosha, WI 53140
Email To: Lanette.Altенbach@aecom.com	Purchase Order No.: N/A	Pace Quote Reference: N/A
Phone: 414-577-1363	Project Name: 704 7th Street Kenosha Iron + Metal	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 6058444 60568797	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY		
<input type="checkbox"/> PDDES	<input checked="" type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER
SITE LOCATION	<input type="checkbox"/> GA <input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input type="checkbox"/> NC	
	<input type="checkbox"/> OH <input checked="" type="checkbox"/> WI <input type="checkbox"/> OTHER	
Filtered (Y/N)	/ / / / / / / / / / / / / / / / / /	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analyte	Requested Analyte	Requested Analyte	Requested Analyte	Requested Analyte	Requested Analyte	Requested Analyte	Requested Analyte				
			SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START		COMPOSITE END/GRAB			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other									VOCs B200	PAHs B200	Residual Chlorine (Y/N)	
				DATE	TIME	DATE																						TIME
				Pace Project Number Lab I.D.																								
1	Trip Blank	001	WT G	9/4/18	1305	-	-	2			X																	
2	B-5	002	↓	↓	1310	↓	↓	3			X																	
3	B-5-Over	003	↓	↓	1310	↓	↓																					
4	B-9R	004	↓	↓	1325	↓	↓				X																	
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
Zach Albert / AECOM	8/10/18	0300	Mary Fanning	8/10/18	1200		Y/N	Y/N	Y/N	Y/N
Mary Fanning (Signed)	8/10/18	1410					Y/N	Y/N	Y/N	Y/N
	8/14/18	0915	Robert P. [Signature]	8/14/18	0945	KOI	Y/N	Y/N	Y/N	Y/N
SAMPLER NAME AND SIGNATURE					Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact		
PRINT Name of SAMPLER: Zach Albert			SIGNATURE of SAMPLER: Zach Albert		DATE Signed (MM/DD/YY) 08/09/18					

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40173933

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN
001																	2																2.5 / 5 / 10
002																	3																2.5 / 5 / 10
003																	3																2.5 / 5 / 10
004																	3																2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
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019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

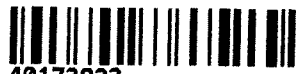
Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

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

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECO m **Project #:** WO# : 40173933
Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____


 40173933

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 SR - N/A **Type of Ice:** Wet Blue Dry None Samples on Ice, cooling process has begun
Cooler Temperature Uncorr: Refr /Corr: _____
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 8/14/18
 Initials: SSH

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>8/14/18</u>
Pace Trip Blank Lot # (if purchased): <u>N/A</u>		

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

Project Manager Review: [Signature] **Date:** 8/13/18