

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OECl) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.

Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person

William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	Phone Number (include area code)
Person or company that collected samples	(608) 267-3539

Luke Rykoskey, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well. <input checked="" type="radio"/> Yes <input type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input checked="" type="radio"/> Yes <input type="radio"/> No

Contaminants in Vapor

	Yes	No
Indoor Air	<input type="radio"/>	<input checked="" type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Tetra Tech		Manthey	Mark	
Address		City	State	ZIP Code
175 N. Corporate Drive, Suite 100		Brookfield	WI	53045
Phone # (inc. area code)	Email			
(262) 207-3458	Mark.Manthey@tetrattech.com			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Pelayo		Aristeo	(608) 267-3539	
Address		City	State	ZIP Code
101 S. Webster St., P.O. Box 7921		Madison	WI	53707-7921
Email				
aristeo.pelayo@wisconsin.gov				

Groundwater Quality Data

	Date Sampled			12/7/2018 *
	Units	NR140 ES	NR140 PAL	PW-03
<u>VOCs</u>				
1,4-Dioxane	µg/L	3.	0.3	<0.40 U
Chloromethane	µg/L	30.	3.	0.086 J
cis-1,2-Dichloroethene	µg/L	70.	7.	1.3
Methyl tert-butyl ether	µg/L	60.	12.	0.52
trans-1,2-Dichloroethene	µg/L	100.	20.	0.064 J
Trichloroethene	µg/L	5.	0.5	0.38

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

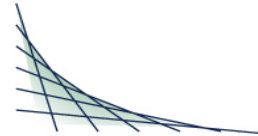
J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPUN, WI
 Project #: 117-7413004.02
 Folder #: 141592
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 2.7
 Report Date: 12/18/2018
 Date Received: 12/08/2018
 Reprint Date: 12/18/2018

CT LAB#: 219179	Sample Description: PW-03	DNR License/Well #: 04189/051	Sampled: 12/07/2018 1610
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U		12/13/2018 18:55	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 219179 Sample Description:PW-03

DNR License/Well #: 04189/051 Sampled: 12/07/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		12/13/2018 18:55	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		12/13/2018 18:55	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		12/13/2018 18:55	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		12/13/2018 18:55	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		12/13/2018 18:55	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		12/13/2018 18:55	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		12/13/2018 18:55	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1	U		12/13/2018 18:55	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		12/13/2018 18:55	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		12/13/2018 18:55	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		12/13/2018 18:55	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		12/13/2018 18:55	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		12/13/2018 18:55	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Y		12/13/2018 18:55	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		12/13/2018 18:55	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		12/13/2018 18:55	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		12/13/2018 18:55	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		12/13/2018 18:55	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		12/13/2018 18:55	RLD	EPA 8260C
Chloromethane	0.086	ug/L	0.040	0.13	1	J		12/13/2018 18:55	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.3	ug/L	0.070	0.23	1			12/13/2018 18:55	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		12/13/2018 18:55	RLD	EPA 8260C

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CT LAB#: 219179 Sample Description:PW-03

DNR License/Well #: 04189/051 Sampled: 12/07/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		12/13/2018 18:55	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		12/13/2018 18:55	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		12/13/2018 18:55	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1	U		12/13/2018 18:55	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		12/13/2018 18:55	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		12/13/2018 18:55	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		12/13/2018 18:55	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		12/13/2018 18:55	RLD	EPA 8260C
Methyl tert-butyl ether	0.52	ug/L	0.040	0.12	1			12/13/2018 18:55	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U		12/13/2018 18:55	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		12/13/2018 18:55	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		12/13/2018 18:55	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		12/13/2018 18:55	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		12/13/2018 18:55	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		12/13/2018 18:55	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		12/13/2018 18:55	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		12/13/2018 18:55	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		12/13/2018 18:55	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		12/13/2018 18:55	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.064	ug/L	0.040	0.14	1	J		12/13/2018 18:55	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		12/13/2018 18:55	RLD	EPA 8260C
Trichloroethene	0.38	ug/L	0.050	0.17	1			12/13/2018 18:55	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		12/13/2018 18:55	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		12/13/2018 18:55	RLD	EPA 8260C

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CT LAB#: 219179 Sample Description:PW-03

DNR License/Well #: 04189/051 Sampled: 12/07/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<0.019	ug/L	0.019	0.064	1	U		12/13/2018 18:55	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	12/10/2018 12:00	12/11/2018 13:53	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

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NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OEI) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.

Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person	Phone Number (include area code)
William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	(608) 267-3539

Person or company that collected samples

Todd Thomson, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well. <input checked="" type="radio"/> Yes <input type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input checked="" type="radio"/> Yes <input type="radio"/> No

Contaminants in Vapor

	Yes	No
	Indoor Air	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

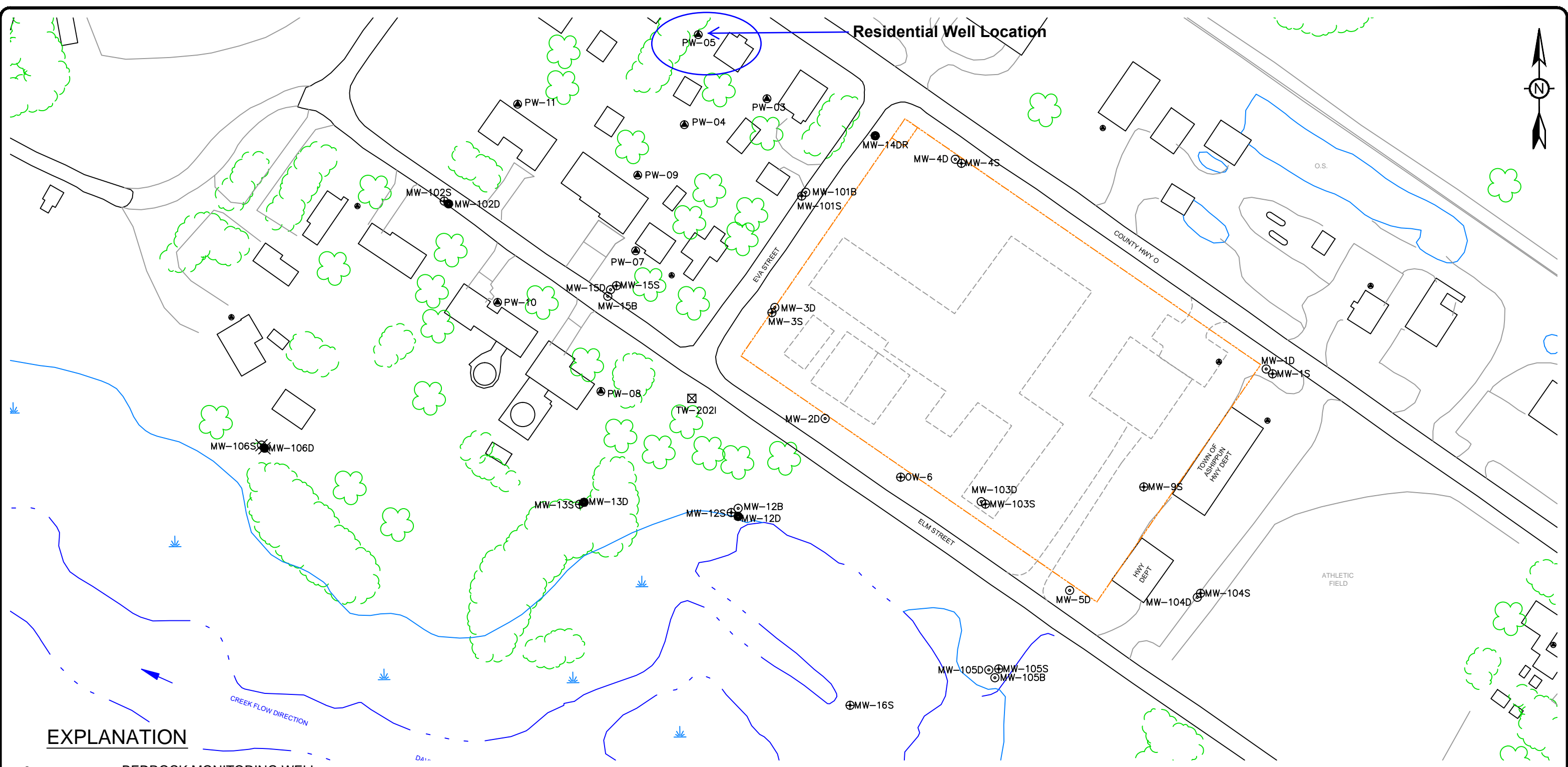
Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Tetra Tech		Manthey	Mark	
Address		City	State	ZIP Code
175 N. Corporate Drive, Suite 100		Brookfield	WI	53045
Phone # (inc. area code)	Email			
(262) 207-3458	Mark.Manthey@tetrattech.com			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Pelayo		Aristeo	(608) 267-3539	
Address		City	State	ZIP Code
101 S. Webster St., P.O. Box 7921		Madison	WI	53707-7921
Email				
aristeo.pelayo@wisconsin.gov				



Residential Well Location

EXPLANATION

- ⊙MW-105B BEDROCK MONITORING WELL
- MW-105D DEEP UNCONSOLIDATED MONITORING WELL
- ⊕MW-105S SHALLOW UNCONSOLIDATED MONITORING WELL
- PW-11 RESIDENTIAL WELL
- ⊗MW-106D DEEP UNCONSOLIDATED SENTINEL WELL
- ⊗MW-106S SHALLOW UNCONSOLIDATED SENTINEL WELL
- ⊠TW-202I TEMPORARY WELL
- FORMER OECI SITE BOUNDARY



TITLE: OCONOMOWOC ELECTROPLATING COMPANY, INC. SITE LAYOUT			
LOCATION: ASHIPUN, WISCONSIN			
	CHECKED	MAM	FIGURE: 1
	DRAFTED	HJW	
	PROJECT	117-7413001	
	DATE	8/17/17	

Groundwater Quality Data

	Date Sampled			11/12/2018 *
	Units	NR140 ES	NR140 PAL	PW-05
<u>VOCs</u>				
1,4-Dioxane	µg/L	3.	0.3	<0.40 U
Chloromethane	µg/L	30.	3.	0.041 J
cis-1,2-Dichloroethene	µg/L	70.	7.	1.4
Diisopropyl ether	µg/L	--	--	0.28
Methyl tert-butyl ether	µg/L	60.	12.	0.69
trans-1,2-Dichloroethene	µg/L	100.	20.	0.073 J
Trichloroethene	µg/L	5.	0.5	0.12 J

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

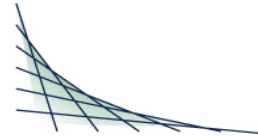
J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPUN, WI
 Project #: 117-7413004.02
 Folder #: 141001
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 1.1
 Report Date: 12/03/2018
 Date Received: 11/13/2018
 Reprint Date: 12/13/2018

CT LAB#: 209437 Sample Description: PW-05

DNR License/Well #: 04189/053

Sampled: 11/12/2018 1600

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 11:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 209437 Sample Description:PW-05

DNR License/Well #: 04189/053 Sampled: 11/12/2018 1600

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/20/2018 11:34	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/20/2018 11:34	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/20/2018 11:34	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 11:34	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/20/2018 11:34	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 11:34	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/20/2018 11:34	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1	U		11/20/2018 11:34	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/20/2018 11:34	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 11:34	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/20/2018 11:34	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/20/2018 11:34	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 11:34	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Y		11/20/2018 11:34	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/20/2018 11:34	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 11:34	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 11:34	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 11:34	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 11:34	RLD	EPA 8260C
Chloromethane	0.041	ug/L	0.040	0.13	1	J		11/20/2018 11:34	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.4	ug/L	0.070	0.23	1			11/20/2018 11:34	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/20/2018 11:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 209437 Sample Description:PW-05

DNR License/Well #: 04189/053 Sampled: 11/12/2018 1600

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 11:34	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 11:34	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 11:34	RLD	EPA 8260C
Diisopropyl ether	0.28	ug/L	0.040	0.14	1			11/20/2018 11:34	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 11:34	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 11:34	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 11:34	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 11:34	RLD	EPA 8260C
Methyl tert-butyl ether	0.69	ug/L	0.040	0.12	1			11/20/2018 11:34	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Y,Q		11/20/2018 11:34	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 11:34	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 11:34	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 11:34	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 11:34	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 11:34	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 11:34	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 11:34	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/20/2018 11:34	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 11:34	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.073	ug/L	0.040	0.14	1	J		11/20/2018 11:34	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/20/2018 11:34	RLD	EPA 8260C
Trichloroethene	0.12	ug/L	0.050	0.17	1	J		11/20/2018 11:34	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/20/2018 11:34	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/20/2018 11:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 209437 Sample Description:PW-05

DNR License/Well #: 04189/053

Sampled: 11/12/2018 1600

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<0.019	ug/L	0.019	0.064	1	U		11/20/2018 11:34	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/18/2018 18:30	11/21/2018 16:31	RPN	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

CHAIN OF CUSTODY

Company: Tetra Tech, Inc.
 Project Contact: Mark Manthey
 Telephone: 262-207-2458
 Project Name: WDNR OECl
 Project #: 117-7413004.02
 Location: Ashippun, WI
 Sampled By:

CT LABORATORIES

 Folder #: 141001
 Company: TETRA TECH
 Project: OCONOMOWOC ELEC
 Logged By: DRT PM: BM

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other Superfund

PO #

Report To: Mark Manthey
 EMAIL: Mark.Manthey@tetrattech.com
 Company: Tetra Tech, Inc.
 Address: 175 N. Corporate Drive, Suite 100
 Brookfield, WI 53045
 Invoice To: *Same as above
 EMAIL:
 Company:
 Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions

Filtered? Y/N	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD
	VOCs + 1,4-dioxane (EPA 8260C)	1,4-dioxane (EPA 8270D-SIM)												
N	3	2											5	

Turnaround Time
 Normal RUSH*
 Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>
Date	Time						VOCs + 1,4-dioxane (EPA 8260C)	1,4-dioxane (EPA 8270D-SIM)													
11/12/18	16:00	GW	G	1	PW-05	N	3	2									5	209437			

Relinquished By: *Mark A. Manthey* Date/Time: 11/12/18 / 17:00

Received By: *RS* Date/Time: 11/13/18 105
 FedEx

Lab Use Only
 Ice Present Yes No
 Temp 1.1 IR Gun 24
 Cooler # 6193

Received by: Date/Time

Received for Laboratory by: *R* Date/Time: 11/13/18 1128
 141001 - Page 17 of 18

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OECl) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.			
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person

William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	Phone Number (include area code)
	(608) 267-3539

Person or company that collected samples

Luke Rykoskey, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well.
 Yes No

If yes, the sampled drinking water well had detectable contaminants.
 Yes No

Contaminants in Vapor	Yes	No
	Indoor Air	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

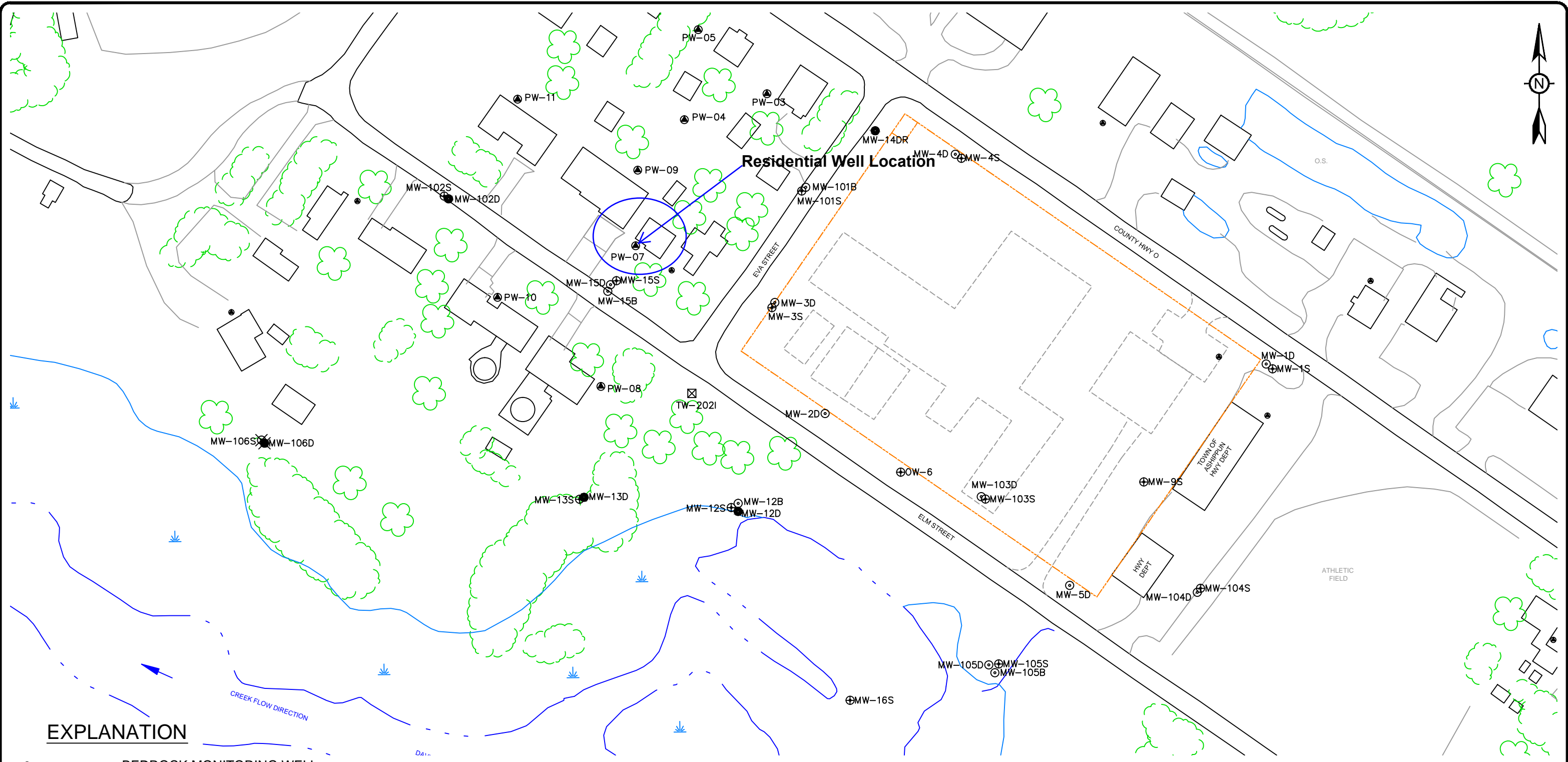
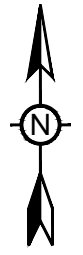
Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Tetra Tech		Manthey	Mark	
Address		City	State	ZIP Code
175 N. Corporate Drive, Suite 100		Brookfield	WI	53045
Phone # (inc. area code)	Email			
(262) 207-3458	Mark.Manthey@tetrattech.com			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Pelayo		Aristeo	(608) 267-3539	
Address		City	State	ZIP Code
101 S. Webster St., P.O. Box 7921		Madison	WI	53707-7921
Email				
aristeo.pelayo@wisconsin.gov				



EXPLANATION

- ⊙MW-105B BEDROCK MONITORING WELL
- MW-105D DEEP UNCONSOLIDATED MONITORING WELL
- ⊕MW-105S SHALLOW UNCONSOLIDATED MONITORING WELL
- PW-11 RESIDENTIAL WELL
- ⊗MW-106D DEEP UNCONSOLIDATED SENTINEL WELL
- ⊗MW-106S SHALLOW UNCONSOLIDATED SENTINEL WELL
- ⊠TW-202I TEMPORARY WELL
- FORMER OECI SITE BOUNDARY



TITLE: OCONOMOWOC ELECTROPLATING COMPANY, INC. SITE LAYOUT			
LOCATION: ASHIPGUN, WISCONSIN			
	CHECKED	MAM	FIGURE: 1
	DRAFTED	HJW	
	PROJECT	117-7413001	
DATE	8/17/17		

Groundwater Quality Data

	Date Sampled			11/16/2018 *
	Units	NR140 ES	NR140 PAL	PW-07
VOCs				
1,4-Dioxane	µg/L	3.	0.3	<0.40 U
Acetone	µg/L	9000.	1800.	0.44 JB
Chloromethane	µg/L	30.	3.	0.051 J
cis-1,2-Dichloroethene	µg/L	70.	7.	4.4
Methyl tert-butyl ether	µg/L	60.	12.	0.71
trans-1,2-Dichloroethene	µg/L	100.	20.	0.21
Vinyl chloride	µg/L	0.2	0.02	0.038 J

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

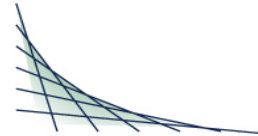
J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPPUN, WI
 Project #: 117-7413004.02
 Folder #: 141185
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 2.8
 Report Date: 12/10/2018
 Date Received: 11/17/2018
 Reprint Date: 12/13/2018

CT LAB#: 212373	Sample Description: PW-07	DNR License/Well #: 04189/054	Sampled: 11/16/2018 1250
-----------------	---------------------------	-------------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:19	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212373 Sample Description:PW-07

DNR License/Well #: 04189/054 Sampled: 11/16/2018 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/20/2018 22:19	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/20/2018 22:19	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/20/2018 22:19	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:19	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/20/2018 22:19	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:19	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/20/2018 22:19	RLD	EPA 8260C
Acetone	0.44	ug/L	0.30	1.0	1	J B		11/20/2018 22:19	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/20/2018 22:19	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 22:19	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/20/2018 22:19	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/20/2018 22:19	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:19	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Q,Y		11/20/2018 22:19	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/20/2018 22:19	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 22:19	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 22:19	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:19	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:19	RLD	EPA 8260C
Chloromethane	0.051	ug/L	0.040	0.13	1	J		11/20/2018 22:19	RLD	EPA 8260C
cis-1,2-Dichloroethene	4.4	ug/L	0.070	0.23	1			11/20/2018 22:19	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/20/2018 22:19	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212373 Sample Description:PW-07

DNR License/Well #: 04189/054 Sampled: 11/16/2018 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 22:19	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 22:19	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 22:19	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:19	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 22:19	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:19	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:19	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:19	RLD	EPA 8260C
Methyl tert-butyl ether	0.71	ug/L	0.040	0.12	1			11/20/2018 22:19	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Q,Z		11/20/2018 22:19	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:19	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 22:19	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:19	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:19	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:19	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:19	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 22:19	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/20/2018 22:19	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:19	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.21	ug/L	0.040	0.14	1			11/20/2018 22:19	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/20/2018 22:19	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 22:19	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/20/2018 22:19	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/20/2018 22:19	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212373 Sample Description:PW-07

DNR License/Well #: 04189/054 Sampled: 11/16/2018 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	0.038	ug/L	0.019	0.064	1	J		11/20/2018 22:19	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/20/2018 11:00	12/05/2018 17:19	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OECl) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.			
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person

William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	Phone Number (include area code)
	(608) 267-3539

Person or company that collected samples

Luke Rykoskey, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well.
 Yes No

If yes, the sampled drinking water well had detectable contaminants.
 Yes No

Contaminants in Vapor

	Yes	No
	Indoor Air	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name		First Name	
Tetra Tech		Manthey		Mark	
Address			City	State	ZIP Code
175 N. Corporate Drive, Suite 100			Brookfield	WI	53045
Phone # (inc. area code)	Email				
(262) 207-3458	Mark.Manthey@tetrattech.com				

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name		Phone # (inc. area code)	
Pelayo		Aristeo		(608) 267-3539	
Address			City	State	ZIP Code
101 S. Webster St., P.O. Box 7921			Madison	WI	53707-7921
Email					
aristeo.pelayo@wisconsin.gov					

Groundwater Quality Data

	Date Sampled			11/16/2018 *
	Units	NR140 ES	NR140 PAL	PW-08
VOCs				
1,4-Dioxane	µg/L	3.	0.3	<0.40 U
Acetone	µg/L	9000.	1800.	0.43 JB
Chloromethane	µg/L	30.	3.	0.072 J
cis-1,2-Dichloroethene	µg/L	70.	7.	2.6
Methyl tert-butyl ether	µg/L	60.	12.	0.72
trans-1,2-Dichloroethene	µg/L	100.	20.	0.11 J
Trichloroethene	µg/L	5.	0.5	0.089 J
Vinyl chloride	µg/L	0.2	0.02	0.039 J

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

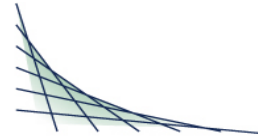
J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPUN, WI
 Project #: 117-7413004.02
 Folder #: 141185
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 2.8
 Report Date: 12/10/2018
 Date Received: 11/17/2018
 Reprint Date: 12/13/2018

CT LAB#: 212374 Sample Description: PW-08

DNR License/Well #: 04189/055

Sampled: 11/16/2018 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:47	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212374 Sample Description:PW-08

DNR License/Well #: 04189/055 Sampled: 11/16/2018 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/20/2018 22:47	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/20/2018 22:47	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/20/2018 22:47	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:47	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/20/2018 22:47	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:47	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/20/2018 22:47	RLD	EPA 8260C
Acetone	0.43	ug/L	0.30	1.0	1	J B		11/20/2018 22:47	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/20/2018 22:47	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 22:47	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/20/2018 22:47	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/20/2018 22:47	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:47	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Q,Y		11/20/2018 22:47	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/20/2018 22:47	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 22:47	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 22:47	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:47	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:47	RLD	EPA 8260C
Chloromethane	0.072	ug/L	0.040	0.13	1	J		11/20/2018 22:47	RLD	EPA 8260C
cis-1,2-Dichloroethene	2.6	ug/L	0.070	0.23	1			11/20/2018 22:47	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/20/2018 22:47	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212374 Sample Description:PW-08

DNR License/Well #: 04189/055 Sampled: 11/16/2018 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 22:47	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 22:47	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 22:47	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:47	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 22:47	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:47	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 22:47	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 22:47	RLD	EPA 8260C
Methyl tert-butyl ether	0.72	ug/L	0.040	0.12	1			11/20/2018 22:47	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Q,Z		11/20/2018 22:47	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:47	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 22:47	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:47	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 22:47	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 22:47	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 22:47	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 22:47	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/20/2018 22:47	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 22:47	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.11	ug/L	0.040	0.14	1	J		11/20/2018 22:47	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/20/2018 22:47	RLD	EPA 8260C
Trichloroethene	0.089	ug/L	0.050	0.17	1	J		11/20/2018 22:47	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/20/2018 22:47	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/20/2018 22:47	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212374 Sample Description:PW-08 DNR License/Well #: 04189/055 Sampled: 11/16/2018 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	0.039	ug/L	0.019	0.064	1	J		11/20/2018 22:47	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/20/2018 11:00	12/05/2018 17:39	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OECl) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.

Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person

William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	Phone Number (include area code)
Person or company that collected samples	(608) 267-3539

Luke Rykoskey, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well.
 Yes No

If yes, the sampled drinking water well had detectable contaminants.
 Yes No

Contaminants in Vapor

	Yes	No
Indoor Air	<input type="radio"/>	<input checked="" type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Tetra Tech		Manthey	Mark	
Address		City	State	ZIP Code
175 N. Corporate Drive, Suite 100		Brookfield	WI	53045
Phone # (inc. area code)	Email			
(262) 207-3458	Mark.Manthey@tetrattech.com			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)		
Pelayo	Aristeo	(608) 267-3539		
Address		City	State	ZIP Code
101 S. Webster St., P.O. Box 7921		Madison	WI	53707-7921
Email				
aristeo.pelayo@wisconsin.gov				

Groundwater Quality Data

	Date Sampled			11/19/2018 *
	Units	NR140 ES	NR140 PAL	PW-09
VOCs				
1,4-Dioxane	µg/L	3.	0.3	<0.40 U
Acetone	µg/L	9000.	1800.	0.45 JB
Chloromethane	µg/L	30.	3.	0.1 J
cis-1,2-Dichloroethene	µg/L	70.	7.	5.2
Methyl tert-butyl ether	µg/L	60.	12.	0.72
Toluene	µg/L	800.	160.	0.041 J
trans-1,2-Dichloroethene	µg/L	100.	20.	0.25
Trichloroethene	µg/L	5.	0.5	0.071 J
Vinyl chloride	µg/L	0.2	0.02	0.035 J

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

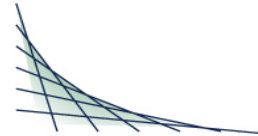
U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.

CT LABORATORIES

delivering more than data from your environmental analyses



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPPUN, WI
 Project #: 117-7413004.02
 Folder #: 141215
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 1.6
 Report Date: 12/10/2018
 Date Received: 11/20/2018
 Reprint Date: 12/13/2018

CT LAB#: 212943 Sample Description: PW-09

DNR License/Well #: 04189/056

Sampled: 11/19/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212943 Sample Description:PW-09

DNR License/Well #: 04189/056 Sampled: 11/19/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/21/2018 00:41	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/21/2018 00:41	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/21/2018 00:41	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:41	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/21/2018 00:41	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:41	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/21/2018 00:41	RLD	EPA 8260C
Acetone	0.45	ug/L	0.30	1.0	1	J B		11/21/2018 00:41	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/21/2018 00:41	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/21/2018 00:41	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/21/2018 00:41	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/21/2018 00:41	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:41	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Q,Y		11/21/2018 00:41	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/21/2018 00:41	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/21/2018 00:41	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/21/2018 00:41	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:41	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:41	RLD	EPA 8260C
Chloromethane	0.10	ug/L	0.040	0.13	1	J		11/21/2018 00:41	RLD	EPA 8260C
cis-1,2-Dichloroethene	5.2	ug/L	0.070	0.23	1			11/21/2018 00:41	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/21/2018 00:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212943 Sample Description:PW-09

DNR License/Well #: 04189/056 Sampled: 11/19/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/21/2018 00:41	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/21/2018 00:41	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/21/2018 00:41	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:41	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/21/2018 00:41	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:41	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:41	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:41	RLD	EPA 8260C
Methyl tert-butyl ether	0.72	ug/L	0.040	0.12	1			11/21/2018 00:41	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Q,Z		11/21/2018 00:41	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:41	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/21/2018 00:41	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:41	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:41	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:41	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:41	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:41	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/21/2018 00:41	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/21/2018 00:41	RLD	EPA 8260C
Toluene	0.041	ug/L	0.040	0.13	1	J		11/21/2018 00:41	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.25	ug/L	0.040	0.14	1			11/21/2018 00:41	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/21/2018 00:41	RLD	EPA 8260C
Trichloroethene	0.071	ug/L	0.050	0.17	1	J		11/21/2018 00:41	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/21/2018 00:41	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/21/2018 00:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212943 Sample Description:PW-09

DNR License/Well #: 04189/056 Sampled: 11/19/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	0.035	ug/L	0.019	0.064	1	J		11/21/2018 00:41	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/20/2018 11:00	12/05/2018 19:02	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OECl) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.

Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person

William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	Phone Number (include area code)
Person or company that collected samples	(608) 267-3539

Luke Rykoskey, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well.
 Yes No

If yes, the sampled drinking water well had detectable contaminants.
 Yes No

Contaminants in Vapor

	Yes	No
Indoor Air	<input type="radio"/>	<input checked="" type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

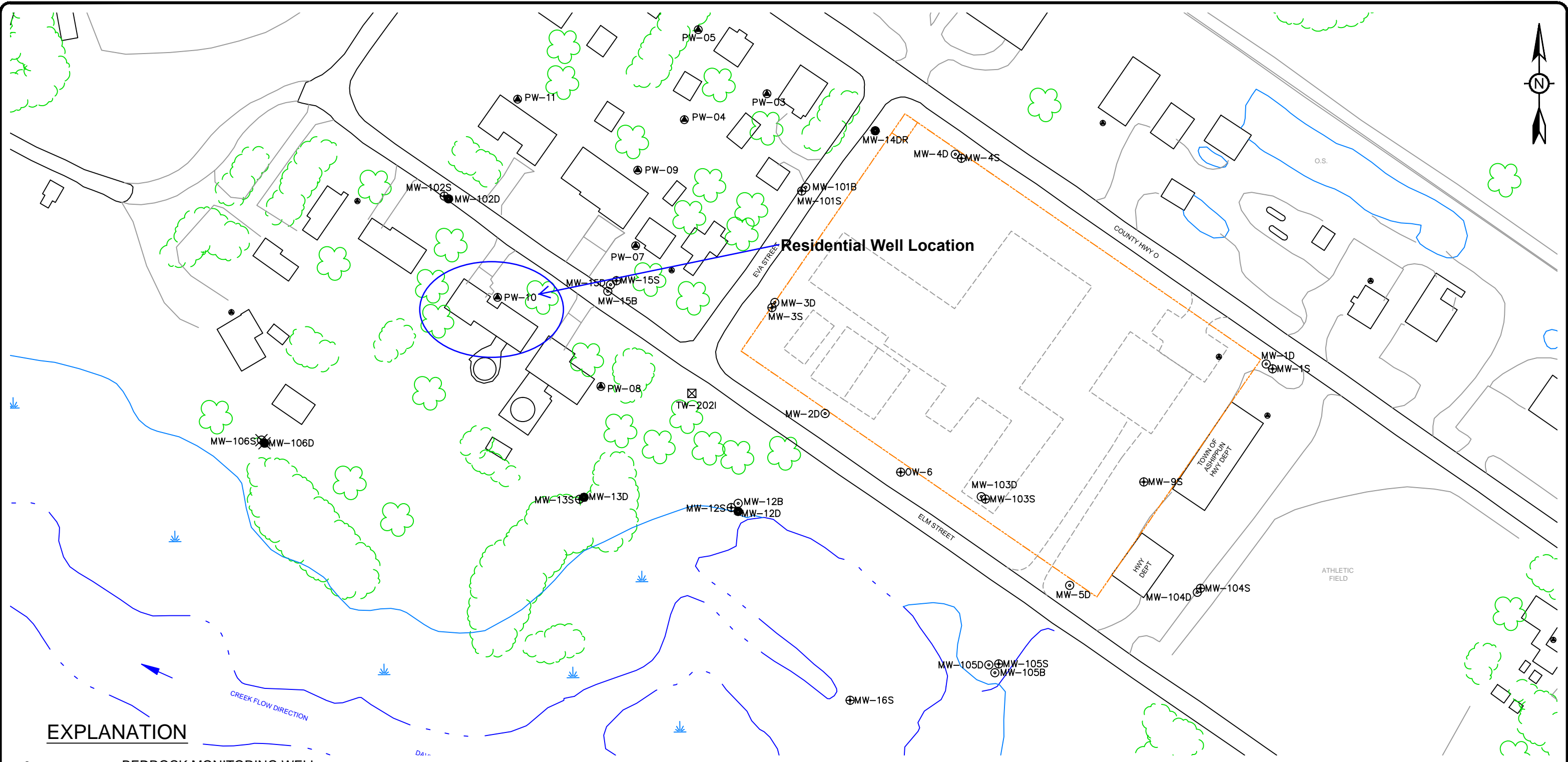
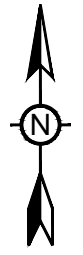
Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Tetra Tech		Manthey	Mark	
Address		City	State	ZIP Code
175 N. Corporate Drive, Suite 100		Brookfield	WI	53045
Phone # (inc. area code)	Email			
(262) 207-3458	Mark.Manthey@tetrattech.com			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

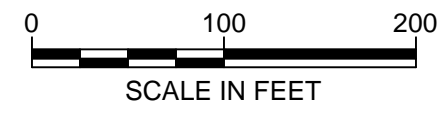
State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Pelayo		Aristeo	(608) 267-3539	
Address		City	State	ZIP Code
101 S. Webster St., P.O. Box 7921		Madison	WI	53707-7921
Email				
aristeo.pelayo@wisconsin.gov				



EXPLANATION

- ⊙MW-105B BEDROCK MONITORING WELL
- MW-105D DEEP UNCONSOLIDATED MONITORING WELL
- ⊕MW-105S SHALLOW UNCONSOLIDATED MONITORING WELL
- PW-11 RESIDENTIAL WELL
- ⊗MW-106D DEEP UNCONSOLIDATED SENTINEL WELL
- ⊗MW-106S SHALLOW UNCONSOLIDATED SENTINEL WELL
- ⊠TW-202I TEMPORARY WELL
- FORMER OECI SITE BOUNDARY



TITLE: OCONOMOWOC ELECTROPLATING COMPANY, INC. SITE LAYOUT			
LOCATION: ASHIPPUN, WISCONSIN			
	CHECKED	MAM	FIGURE: 1
	DRAFTED	HJW	
	PROJECT	117-7413001	
DATE	8/17/17		

Groundwater Quality Data

	Date Sampled			11/16/2018 *
	Units	NR140 ES	NR140 PAL	PW-10
VOCs				
1,4-Dioxane	µg/L	3.	0.3	<0.40 U
Acetone	µg/L	9000.	1800.	0.46 JB
cis-1,2-Dichloroethene	µg/L	70.	7.	0.16 J
Methyl tert-butyl ether	µg/L	60.	12.	0.54

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

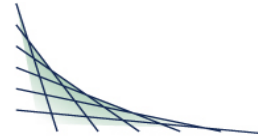
U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.

CT LABORATORIES

delivering more than data from your environmental analyses



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPPUN, WI
 Project #: 117-7413004.02
 Folder #: 141185
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 2.8
 Report Date: 12/10/2018
 Date Received: 11/17/2018
 Reprint Date: 12/13/2018

CT LAB#: 212375 Sample Description: PW-10

DNR License/Well #: 04189/057

Sampled: 11/16/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U	11/20/2018 23:16	RLD	EPA 8260C	
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U	11/20/2018 23:16	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212375 Sample Description:PW-10

DNR License/Well #: 04189/057 Sampled: 11/16/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 23:16	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/20/2018 23:16	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/20/2018 23:16	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/20/2018 23:16	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:16	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/20/2018 23:16	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 23:16	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/20/2018 23:16	RLD	EPA 8260C
Acetone	0.46	ug/L	0.30	1.0	1	J B		11/20/2018 23:16	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/20/2018 23:16	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 23:16	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/20/2018 23:16	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/20/2018 23:16	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 23:16	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Q,Y		11/20/2018 23:16	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/20/2018 23:16	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 23:16	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 23:16	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 23:16	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:16	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.16	ug/L	0.070	0.23	1	J		11/20/2018 23:16	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/20/2018 23:16	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212375 Sample Description:PW-10

DNR License/Well #: 04189/057 Sampled: 11/16/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 23:16	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 23:16	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 23:16	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 23:16	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 23:16	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 23:16	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 23:16	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 23:16	RLD	EPA 8260C
Methyl tert-butyl ether	0.54	ug/L	0.040	0.12	1			11/20/2018 23:16	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Q,Z		11/20/2018 23:16	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:16	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 23:16	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 23:16	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 23:16	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:16	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 23:16	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 23:16	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/20/2018 23:16	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:16	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 23:16	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/20/2018 23:16	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 23:16	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/20/2018 23:16	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/20/2018 23:16	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212375 Sample Description:PW-10 DNR License/Well #: 04189/057 Sampled: 11/16/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<0.019	ug/L	0.019	0.064	1	U		11/20/2018 23:16	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/20/2018 11:00	12/05/2018 18:00	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

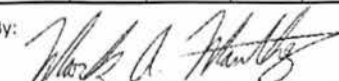

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Company: Tetra Tech, Inc.	1230 Lange Court, Baraboo, WI 53913 608-356-2760 Fax 608-356-2766 www.ctlaboratories.com	Report To: Mark Manthey EMAIL: Mark.Manthey@tetrattech.com
Project Contact: Mark Manthey	 <p style="font-size: small;">Lab Use Only Place Header Sticker Here:</p>	Company: Tetra Tech, Inc.
Telephone: 262-207-2458		Program: QSM RCRA SDWA NPDES Solid Waste Other <u>Superfund</u>
Project Name: WDNR OECl		Invoice To: *Same as above
Project #: 117-7413004.02		EMAIL:
Location: Ashippun, WI	PO #	Company:
Sampled By: Luke Rykoskey		Address:
*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions		

141185

Client Special Instructions						Filtered? Y/N	ANALYSES REQUESTED										Total # Containers	Designated MS/MSD	Turnaround Time Normal RUSH* Date Needed: _____ Rush analysis requires prior CT Laboratories' approval Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%
							VOCs + 1,4-dioxane (EPA 8260C)	1,4-dioxane (EPA 8270D-SIM)											
Collection		Matrix	Grab/ Comp	Sample #	Sample ID Description	Fill in Spaces with Bottles per Test										CT Lab ID # <i>Lab use only</i>			
Date	Time																		
11/16 /18	12:00	GW	G	1	PW-10	N	3	2										5	212375

Relinquished By: 	Date/Time 11/16/18 / 16:00	Received By:  FedEx	Date/Time 11/17/18 1115	<i>Lab Use Only</i>
Received by:	Date/Time	Received for Laboratory by: 141185 - Page 40 of 42	Date/Time 11/19/18 0857	Ice Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp <u>2.8</u> IR Gun <u>23</u> Cooler # <u>5424</u>

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Oconomowoc Electroplating Company, Inc. (OECl) Superfund Site		02-14-000905	
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Oconomowoc Electroplating Company, Inc.			
Address	City	State	ZIP Code
W2573 Oak Street	Ashippun	WI	53003

Contact Person	Phone Number (include area code)
William Ryan (US EPA RPM), Aristeo Pelayo (WDNR PM)	(608) 267-3539

Person or company that collected samples

Luke Rykoskey, Tetra Tech, Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well.
 Yes No

If yes, the sampled drinking water well had detectable contaminants.
 Yes No

Contaminants in Vapor	Yes	No
	Indoor Air	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input checked="" type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input checked="" type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

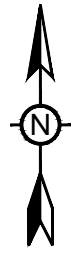
Environmental Consultant

Company Name		Contact Person Last Name		First Name	
Tetra Tech		Manthey		Mark	
Address			City	State	ZIP Code
175 N. Corporate Drive, Suite 100			Brookfield	WI	53045
Phone # (inc. area code)	Email				
(262) 207-3458	Mark.Manthey@tetrattech.com				

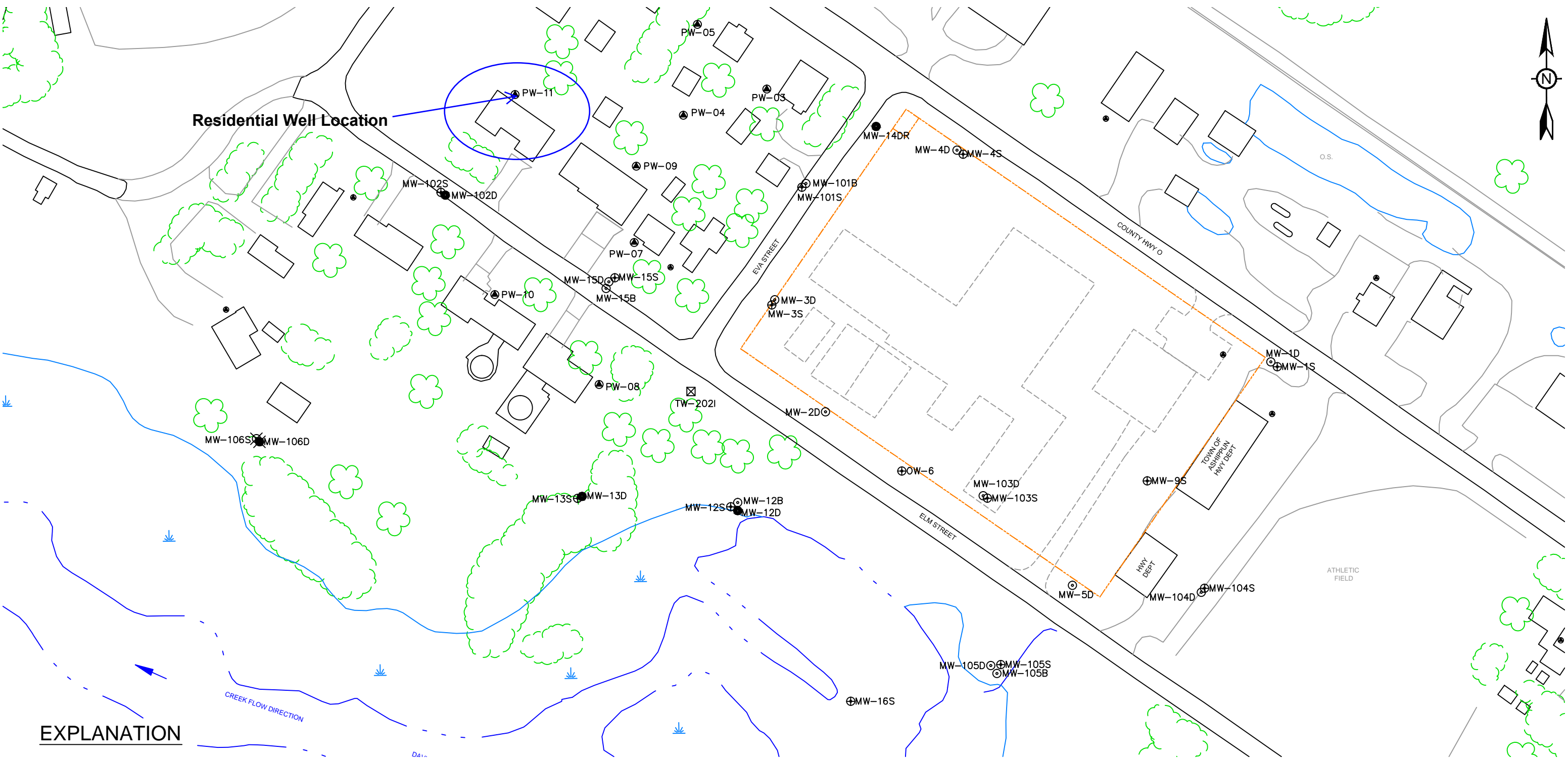
Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name		Phone # (inc. area code)	
Pelayo		Aristeo		(608) 267-3539	
Address			City	State	ZIP Code
101 S. Webster St., P.O. Box 7921			Madison	WI	53707-7921
Email					
aristeo.pelayo@wisconsin.gov					

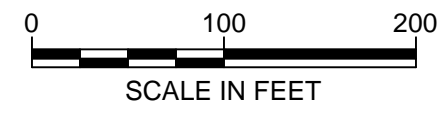


Residential Well Location



EXPLANATION

- ⊙MW-105B BEDROCK MONITORING WELL
- MW-105D DEEP UNCONSOLIDATED MONITORING WELL
- ⊕MW-105S SHALLOW UNCONSOLIDATED MONITORING WELL
- PW-11 RESIDENTIAL WELL
- ⊗MW-106D DEEP UNCONSOLIDATED SENTINEL WELL
- ⊗MW-106S SHALLOW UNCONSOLIDATED SENTINEL WELL
- ⊠TW-202I TEMPORARY WELL
- FORMER OECI SITE BOUNDARY



TITLE: OCONOMOWOC ELECTROPLATING COMPANY, INC. SITE LAYOUT			
LOCATION: ASHIPGUN, WISCONSIN			
	CHECKED	MAM	FIGURE: 1
	DRAFTED	HJW	
	PROJECT	117-7413001	
DATE	8/17/17		

Groundwater Quality Data

	Date Sampled			11/16/2018	11/16/2018 *
	Units	NR140 ES	NR140 PAL	PW-11	PW-11 Dup
VOCs					
1,4-Dioxane	µg/L	3.	0.3	<0.40 U	<0.40 U
Acetone	µg/L	9000.	1800.	0.49 JB	0.53 JB
Chloromethane	µg/L	30.	3.	0.064 J	0.084 J
cis-1,2-Dichloroethene	µg/L	70.	7.	0.94	0.97
Diisopropyl ether	µg/L	--	--	0.13 J	0.12 J
Methyl tert-butyl ether	µg/L	60.	12.	0.77	0.76
trans-1,2-Dichloroethene	µg/L	100.	20.	0.076 J	0.062 J
Vinyl chloride	µg/L	0.2	0.02	0.022 J	0.027 J

Notes:

Dup = Duplicate sample

µg/L = micrograms per liter, which is equivalent to parts per billion.

NR 140 ES = Wisconsin Department of Natural Resource Chapter NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Department of Natural Resource Chapter NR Preventive Action Limit.

Values in bold exceed the listed NR 140 PAL

***No ENFORCEMENT STANDARD has been attained or exceeded by these detected VOCs.**

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

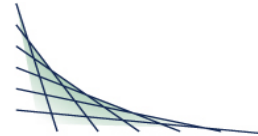
J: Estimated value.

Q: Laboratory control sample outside acceptance limits.

U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPPUN, WI
 Project #: 117-7413004.02
 Folder #: 141185
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 2.8
 Report Date: 12/10/2018
 Date Received: 11/17/2018
 Reprint Date: 12/13/2018

CT LAB#: 212376 Sample Description: PW-11

DNR License/Well #: 04189/058

Sampled: 11/16/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U	11/20/2018 23:44	RLD	EPA 8260C	
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U	11/20/2018 23:44	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212376 Sample Description:PW-11

DNR License/Well #: 04189/058 Sampled: 11/16/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 23:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:44	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:44	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:44	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/20/2018 23:44	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/20/2018 23:44	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/20/2018 23:44	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:44	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/20/2018 23:44	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 23:44	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/20/2018 23:44	RLD	EPA 8260C
Acetone	0.49	ug/L	0.30	1.0	1	J B		11/20/2018 23:44	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/20/2018 23:44	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 23:44	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/20/2018 23:44	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/20/2018 23:44	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 23:44	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Q,Y		11/20/2018 23:44	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/20/2018 23:44	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 23:44	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 23:44	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 23:44	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:44	RLD	EPA 8260C
Chloromethane	0.064	ug/L	0.040	0.13	1	J		11/20/2018 23:44	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.94	ug/L	0.070	0.23	1			11/20/2018 23:44	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/20/2018 23:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212376 Sample Description:PW-11

DNR License/Well #: 04189/058 Sampled: 11/16/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 23:44	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 23:44	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/20/2018 23:44	RLD	EPA 8260C
Diisopropyl ether	0.13	ug/L	0.040	0.14	1	J		11/20/2018 23:44	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/20/2018 23:44	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 23:44	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/20/2018 23:44	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/20/2018 23:44	RLD	EPA 8260C
Methyl tert-butyl ether	0.77	ug/L	0.040	0.12	1			11/20/2018 23:44	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Q,Z		11/20/2018 23:44	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:44	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:44	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/20/2018 23:44	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 23:44	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:44	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/20/2018 23:44	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/20/2018 23:44	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/20/2018 23:44	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/20/2018 23:44	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/20/2018 23:44	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		11/20/2018 23:44	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.076	ug/L	0.040	0.14	1	J		11/20/2018 23:44	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/20/2018 23:44	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1	U		11/20/2018 23:44	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/20/2018 23:44	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/20/2018 23:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212376 Sample Description:PW-11

DNR License/Well #: 04189/058

Sampled: 11/16/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	0.022	ug/L	0.019	0.064	1	J		11/20/2018 23:44	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/20/2018 11:00	12/05/2018 18:21	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

ANALYTICAL REPORT

TETRA TECH
 MARK MANTHEY
 175 N CORPORATE DRIVE
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: WDNR OECI
 Project Phase: ASHIPUN, WI
 Project #: 117-7413004.02
 Folder #: 141185
 Purchase Order #:
 Contract #: 2747

Page 1 of 5
 Arrival Temperature: 2.8
 Report Date: 12/10/2018
 Date Received: 11/17/2018
 Reprint Date: 12/13/2018

CT LAB#: 212377 Sample Description: PW-11 DUP

DNR License/Well #: 04189/058

Sampled: 11/16/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212377 Sample Description:PW-11 DUP

DNR License/Well #: 04189/058 Sampled: 11/16/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1	U		11/21/2018 00:13	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1	U		11/21/2018 00:13	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1	U		11/21/2018 00:13	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:13	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1	U		11/21/2018 00:13	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:13	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1	U		11/21/2018 00:13	RLD	EPA 8260C
Acetone	0.53	ug/L	0.30	1.0	1	J B		11/21/2018 00:13	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1	U		11/21/2018 00:13	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1	U		11/21/2018 00:13	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1	U		11/21/2018 00:13	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1	U		11/21/2018 00:13	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:13	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	U Q,Y		11/21/2018 00:13	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1	U		11/21/2018 00:13	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1	U		11/21/2018 00:13	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1	U		11/21/2018 00:13	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:13	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:13	RLD	EPA 8260C
Chloromethane	0.084	ug/L	0.040	0.13	1	J		11/21/2018 00:13	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.97	ug/L	0.070	0.23	1			11/21/2018 00:13	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1	U		11/21/2018 00:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212377 Sample Description:PW-11 DUP

DNR License/Well #: 04189/058 Sampled: 11/16/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1	U		11/21/2018 00:13	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1	U		11/21/2018 00:13	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1	U		11/21/2018 00:13	RLD	EPA 8260C
Diisopropyl ether	0.12	ug/L	0.040	0.14	1	J		11/21/2018 00:13	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1	U		11/21/2018 00:13	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:13	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1	U		11/21/2018 00:13	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1	U		11/21/2018 00:13	RLD	EPA 8260C
Methyl tert-butyl ether	0.76	ug/L	0.040	0.12	1			11/21/2018 00:13	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	U Q,Z		11/21/2018 00:13	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:13	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1	U		11/21/2018 00:13	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:13	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1	U		11/21/2018 00:13	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1	U		11/21/2018 00:13	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1	U		11/21/2018 00:13	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1	U		11/21/2018 00:13	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1	U		11/21/2018 00:13	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1	U		11/21/2018 00:13	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.062	ug/L	0.040	0.14	1	J		11/21/2018 00:13	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1	U		11/21/2018 00:13	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1	U		11/21/2018 00:13	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	U		11/21/2018 00:13	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	U		11/21/2018 00:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 212377 Sample Description:PW-11 DUP

DNR License/Well #: 04189/058 Sampled: 11/16/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	0.027	ug/L	0.019	0.064	1	J		11/21/2018 00:13	RLD	EPA 8260C
1,4-Dioxane	<0.40	ug/L	0.40	1.4	1	U	11/20/2018 11:00	12/05/2018 18:41	JJY	EPA 8270D-SIM

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.
 "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifier indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Brett M. Szymanski
 Project Manager
 Submitted by: 608-356-2760

<u>Code</u>	<u>Description</u>	<u>QC Qualifiers</u>
B	Analyte detected in the associated Method Blank.	
C	Toxicity present in BOD sample.	
D	Diluted Out.	
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	
H	Holding time exceeded.	
I	Incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	
N	Insufficient BOD oxygen depletion.	
O	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	
Q	Laboratory Control Sample outside acceptance limits.	
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Y	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications
 Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Company: Tetra Tech, Inc.
 Project Contact: Mark Manthey
 Telephone: 262-207-2458
 Project Name: WDNR OECl
 Project #: 117-7413004.02
 Location: Ashippun, WI
 Sampled By: Luke Rykoskey

CT LABORATORIES

Lab Use Only
Place Header Sticker Here:

141185

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other Superfund

PO #

Report To: Mark Manthey
 EMAIL: Mark.Manthey@tetrattech.com
 Company: Tetra Tech, Inc.
 Address: 175 N. Corporate Drive, Suite 100
 Brookfield, WI 53045
 Invoice To: *Same as above
 EMAIL:
 Company:
 Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Filtered? Y/N	ANALYSES REQUESTED										Total # Containers	Designated MS/MSD
	VOCs + 1,4-dioxane (EPA 8260C)	1,4-dioxane (EPA 8270D-SIM)										

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior
 CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test										Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>
Date	Time																		
11/16/18	13:30	GW	G	1	PW-11	N	3	2								5	212376		
11/16/18	13:40	GW	G	2	PW-11 DUP	N	3	2								5	212377		

Relinquished By: *Mark A. Manthey*

Date/Time
11/16/18 / 16:00

Received By: *RS*
FedEx

Date/Time
11/17/18 115

Lab Use Only
 Ice Present Yes No
 Temp 2.8 IR Gun 23
 Cooler # 5424

Received by:

Date/Time

Received for Laboratory by: *GL*

Date/Time
11/19/18 *BS*