July 9, 2019



Environmental Programs Coordinator Appleton Wastewater Treatment Facility 2006 East Newberry Street Appleton, Wisconsin 54915-2758

Attn: Mr. Brian Kreski (electronic) Phone: (920) 832-2353 Mobile: (920) 419-0649 Fax: (920) 832-5949

Re: 2019 Second Quarter Compliance Monitoring Report, Industrial User (Wastewater Discharge) Permit #18-21 N.W. Mauthe Superfund Site 725 South Outagamie Street Appleton, Wisconsin Terracon Project No. 58117057 BRRTS No. 02-45-000127

Dear Mr. Kreski:

Terracon Consultants, Inc. (Terracon) is pleased to submit this quarterly process compliance report for the N.W. Mauthe Superfund site, 725 South Outagamie Street, Appleton, Wisconsin. This report is submitted in conformance with the City of Appleton Industrial User No. 18-21, issued on May 31, 2018, which expires on May 31, 2021. This report covers the period of April 1, 2019, through June 30, 2019, which included monthly effluent compliance monitoring sampling. The monthly results are summarized in the attached Table 1.

The flow monitoring and sampling activities were conducted monthly at the effluent discharge point, prior to Outfall 001. During this reporting period, local limit compliance monitoring samples were collected by the City of Appleton on April 18, 2019, but results from the City sampling are not yet available. Historical results are presented in the attached Table 2.

As noted in the 2012 Fourth Quarter Process Compliance Report the system was replumbed in October 2012. Consequently, a greater volume of water is retained within the equalization tank and sampling occurs directly from the port on the equalization tank discharge pipe. Due to the improvement in the system plumbing, Terracon has collected the composite effluent sample directly from the tank effluent piping during the 2019 sampling events.

Approximately 250 milliliters (mL) of the collected sample was transferred to a new, clean 250mL plastic bottle provided by the laboratory. This unfiltered and unpreserved sample was



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submitted to Pace Analytical (Pace) laboratory (Green Bay, Wisconsin) for analysis of hexavalent chromium. An additional aliquot of the original sample was transferred to a clean, new 250-mL plastic bottle with nitric acid preservative provided by the laboratory. This unfiltered, preserved sample was submitted to Pace for analysis of total chromium. The laboratory analytic test reports and chain-of-custody record for each of the three monthly sampling rounds (April, May and June 2019) are attached. After the laboratory samples were prepared, the pH of the remaining collected discharge sample was measured with an Oakton pHTestrs.

The attached table summarizes the total metered discharge readings, pH measurements, and laboratory test results. Monthly discharge totals were calculated by linear interpolation of the actual meter readings. Total discharge during the reporting period was 360,727 gallons with a mean daily flow of approximately 3,964 gallons per day. Based on the laboratory results, there were no exceedances during this reporting period from Outfall 001.

Scott A. Hodgson, P.G. performed all the sample collection and monitoring during this reporting period. The following certification statement is required by Section 2 0-106, Chapter 20, Utilities:

"I (Scott Hodgson) certify under penalty of law that this document and all attachments were prepared under my direction or supervision in conformance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Please call (920-791-9206) or email (<u>sahodgson@terracon.com</u>) if you have any questions or comments regarding the information provided or need additional information.



Scott A. Hodgson, P.G. Senior Project Manager

SAH:sah/N:\Projects\2011\58117057\Working Files\Pre-Treatment Permit\Process Compliance reports\Terracon 2019\Second Quarter\Second Quarter 2019 Process Compliance.doc

- Attachments: Table 1 Table 2 Laboratory Analytic Test Reports
- Copies to: Jennifer Borski, WDNR-Oshkosh (Electronic) File

## TABLE 1 Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site Appleton, Wisconsin Terracon Project No. 58117057

			OUTFA	ALL 001				Mai	nhole	#1	Manhole #2			
Date Actual	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	рH	Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L]	Total Chromium Lab Analysis <sup>1</sup> (mg/L) [Local Limit 7.0 mg/L]	Flow Totalizer #1 Reading (gallons)	pН	Hexavalent Chromium Hach Test Kit (mg/L)	Flow Totalizer #2 Reading (gallons)	pН	Hexavalent Chromium Hach Test Kit (mg/L)	
	05/01/17	15,703,639	Ŭ	April		<u> </u>	Pounds Cr	,	•	,	,	· ·	,	
05/04/17	03/01/17	15,728,166	51,212	144,831			0.488							
05/04/17		15,728,166	01,212	,	7.6	0.28	0.257	2,387,552	7.1	0.36	5,185,807	6.8	0.2	
	06/01/17	15,796,047	-	May			Pounds Cr	_,,.			0,000,000			
06/08/17		15,812,038	83,872	92,408			0.198							
06/08/17		15,812,038	0		7.5	0.35	0.325	2,421,837	7.1	0.36	5,243,312	7.2	0.1	
	07/01/17	15,888,740		June			Pounds Cr							
07/01/17		15,891,390	79,352	92,693			0.251							
07/06/17		15,902,647	11,257		7.5	0.57	0.525	2,453,044	7.1	0.69	5,309,639	7.0	0.5	
07/31/17		15,945,154	42,507					2,472,011			5,337,122			
	08/01/17	15,945,504		July			Pounds Cr							
08/01/17		15,945,880	726	56,764			0.248	2,472,438	7.0		5,337,492			
08/09/17	00/04/47	15,958,437	12,557	A	7.4	0.68	0.624	2,478,016	7.0	0.66	5,347,291	6.9	0.3	
09/07/17	09/01/17	15,992,489	40,400	August			Pounds Cr	0.470.400			5 007 400			
09/07/17		16,001,926	43,489	46,985	7.4	0.50	0.244 0.488	2,472,438 2,497,770	7.1	0.68	5,337,492 5,375,524	6.9	0.1	
09/07/17	-	16,001,926 16,031,780	29,854		7.4	0.50	0.466	2,497,770	7.1	0.00	5,375,524	0.9	0.14	
09/29/17	10/01/17	16,034,956	29,004	September			Pounds Cr	2,510,609			5,595,101		1	
10/03/17	10/01/17	16,035,404	3,624	42,467			0.173	2,512,318			5,397,338		1	
10/05/17		16,037,996	2,592	42,401	7.5	0.44	0.410	2,512,310	7.1	1.14	5,399,232	6.7	0.1	
10/00/11	11/01/17	16.080.246	2,002	October	1.0	0.11	Pounds Cr	2,010,110	7.1		0,000,202	0.1	0.1	
11/07/17		16,090,463	52,467	45,290		-	0.155	2,536,891			5,436,850			
11/09/17	-	16,092,667	2,204	.0,200	7.6	0.76	0.718	2,538,180	7.2	0.99	5,437,985	7.2	0.2	
11/15/17		16,098,379	5,712					2,541,643			5,441,055			
11/30/17		16,109,689	11,310					2,549,030			5,450,173			
	12/01/17	16,110,147	,	November			Pounds Cr	,,			-,, -			
12/03/17		16,112,117	2,428	29,901			0.179	2,550,308			5,451,687			
12/07/17		16,115,265	3,148		7.4	0.82	0.755	2,551,590	7.4	1.29	5,453,973	7.4	0.2	
12/14/17		16,121,000	5,735					2,551,590			5,453,973			
12/31/17		16,131,936	10,936					2,560,147			5,464,203			
	01/01/18	16,132,116		December			Pounds Cr							
01/01/18		16,132,328	392	21,969			0.138	2,560,571			5,464,203			
01/04/18		16,133,697	1,369			0.78	0.734	2,560,993		0.41	5,465,331		0.0	
	02/01/18	16,144,665		January			Pounds Cr							
02/01/18		16,144,863	11,166	12,549			0.077	2,566,068			5,472,876			
02/08/18		16,147,315	2,452		7.8	0.75	0.906	2,567,326	7.4	1.68	5,474,376	7.2	0.1	
02/28/18	00/04/40	16,155,889	8,574	<b>F</b> . I				2,570,306			5,481,207			
02/04/40	03/01/18	16,156,053	200	February			Pounds Cr	2 570 200			E 404 E00			
03/01/18 03/08/18		16,156,211 16,163,746	322 7,535	11,388	7.7	0.52	0.086 0.526	2,570,306 2,574,570	7.4	0.78	5,481,586 5,485,747	7.2	0.2	
03/08/18		16,163,746	19,407		1.1	0.32	0.020	2,574,570	1.4	0.78	5,485,747	1.2	0.2	
03/27/18		16,183,153	5,462					2,585,717			5,495,623	<u> </u>		
00/01/10	04/01/18	16,189,199	5,402	March			Pounds Cr	2,772,000			0,-00,0-0	<u> </u>	1	
04/01/18	01/10	16,190,057	1,442	33,146			0.145	2,473,316			5,500,204			
04/05/18		16,195,349	5,292		7.7	0.60	0.585	2,476,332	7.3	0.84	5,502,874	7.4	0.3	
04/10/18		16,203,721	8,372			2.00		2,480,242		0.01	5,508,217	· · ·	5.0	
04/25/18		16,302,239						2,508,161			5,586,326	1		
04/30/18		16,328,835	26,596	1				2,516,938			5,606,361		1	
	05/01/18	16,330,212		April			Pounds Cr							
05/01/18		16,331,044	2,209	141,013			0.687	2,517,809			5,607,864			
05/04/18		16,360,268	29,224					2,526,963			5,630,632			
05/10/18		16,409,694	49,426		7.6	0.30	0.315	2,541,347	7.2	0.51	5,667,843	6.8	0.1	
05/22/18		16,428,757	19,063					2,547,991			5,681,939			
05/24/18		16,455,003	26,246					2,557,801			5,698,300			
		16,462,967	7,964	1				2,562,178	[		5,702,537	1		
05/29/18			1,001											
05/29/18	06/01/18	16,466,594 16,467,299		May 136,382			Pounds Cr 0.358	2,563,476			5,705,975			

## TABLE 1 Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site Appleton, Wisconsin Terracon Project No. 58117057

			OUTF	ALL 001				Ma	nhole	#1	Manhole #2			
Date Actual	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	рH	Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L]	Total Chromium Lab Analysis <sup>1</sup> (mg/L) [Local Limit 7.0 mg/L]	Flow Totalizer #1 Reading (gallons)	pН	Hexavalent Chromium Hach Test Kit (mg/L)	Flow Totalizer #2 Reading (gallons)	рН	Hexavalent Chromium Hach Test Kit (mg/L)	
06/07/18		16,480,044	-	(3)	7.6	0.38	0.382	2,568,258	7.1	0.53	5,715,101	7.3	0.2	
06/30/18		16,480,044	57,123		7.0	0.36	0.362	2,588,614	7.1	0.55	5,756,117	7.3	0.2	
00/30/18	07/01/18	16,537,690	57,125	June			Pounds Cr	2,300,014			3,730,117			
07/01/18	07/01/10	16,538,238	1,071	71,096			0.226	2,589,032			5,756,879			
07/05/18		16,542,427	4,189	71,000	7.6	0.31	0.311	2,591,176	7.2	0.57	5,759,920	7.1	0.1	
07/12/18		16,545,145			7.0	0.01	0.011	2,594,639	1.2	0.01	5,763,368		0.1	
07/19/18		16,553,309	8,164					2,597,639			5,766,777			
07/31/18		16,571,725	18,416					2,604,452			5,779,752			
0//01/10	08/01/18	16,571,996	10,410	July		1	Pounds Cr	2,004,402			0,110,102			
08/01/18	00/01/10	16,572,495	770	34,306			0.089	2,589,032			5,756,879			
08/08/18		16,581,462	8,967	34,300		0.43	0.438	2,608,818	7.1	0.55	5,785,813	7.0	0.2	
08/31/18		16,637,913				0.70	0.400	2,629,840	,.,	0.00	5,828,591		0.2	
00/01/10	09/01/18	16,640,165	50,451	August			Pounds Cr	2,023,040			3,020,331			
09/01/18	09/01/10	16,641,711	3,798	68,169			0.125	2,631,151			5,831,336			
09/01/18		16,695,169	53,458	00,103	7.5	0.24	0.125	2,631,151	7.1	0.59	5,871,330	6.7	0.0	
09/00/18		16,734,724	39,555		1.5	0.24	0.200	2,640,502	/.1	0.09	5,899,762	0.1	0.0	
09/18/18		16,738,499	39,333					2,660,806			5,903,277			
09/30/18		16,775,825	37,326			-		2,660,806			5,903,277			
09/30/18	10/01/18		37,320	Sontombor			Pounds Cr	2,072,955			5,932,062			
10/01/18	10/01/18	16,776,168	875	September 136,003			0.290	2,673,387			5,932,454			
10/01/18		16,776,700	9,153	130,003	7.8	0.30	0.290	2,675,556	7.3	0.60	5,932,454	7.1	0.2	
10/03/18					7.8	0.30	0.303	2,675,556	1.5	0.60	5,940,463 6,027,153	7.1	0.2.	
10/25/18	44/04/40	16,899,216	113,363	October			Pounds Cr	2,709,668			6,027,153			
44/04/40	11/01/18	16,908,245	0.400					0 740 500			0.000 700			
11/01/18		16,908,712	9,496	132,077		0.00	0.333	2,713,560	74	0.00	6,033,788	0.0		
11/07/18		16,921,099	12,387		7.7	0.38	0.424	2,717,458	7.1	0.36	6,044,211	6.8	0.3	
11/12/18		16,936,140				-		2,723,181			6,054,634			
11/14/18		16,940,487	4,347					2,725,362			6,057,406		1	
11/16/18		16,944,318				-		2,727,099			6,059,771			
11/19/18	10/01/10	16,949,417	5,099	N				2,729,266			6,063,298			
	12/01/18	16,964,903		November		-	Pounds Cr						-	
12/06/18		16,972,133	22,716	56,658			0.200	2,738,784			6,080,566			
12/06/18		16,972,133	0	<u> </u>	8.0	0.52	0.521	2,738,784	7.4	0.53	6,080,566	7.2	0.4	
	01/01/19	17,020,007		December			Pounds Cr							
01/04/19		17,021,076		55,104			0.239	2,757,483			6,116,420			
01/10/19		17,051,054	29,978		7.8	0.26	0.246	2,765,903	7.2	0.41	6,140,244	7.0	0.1	
	02/01/19	17,085,876		January			Pounds Cr							
02/01/19		17,086,762	35,708	65,869			0.135	2,779,438			6,166,376			
02/07/19		17,092,183	5,421		8.0	0.36	0.398	2,781,163	7.5	0.37	6,170,668	7.3	0.3	
	03/01/19	17,108,085		February			Pounds Cr							
03/01/19		17,108,314	16,131	22,209			0.074	2,786,817			6,183,118	7.4		
03/07/19		17,112,149			7.9	0.29	0.296	2,788,121	7.4		6,186,219	7.4		
03/26/19		17,201,867	89,718	N4- 1		l		2,810,744	L		6,261,318	<u> </u>	ļ	
	04/01/19	17,220,303		March			Pounds Cr						<u> </u>	
04/02/19		17,221,255		112,218			0.277	2,818,615			6,274,417	-		
04/02/19		17,221,255			7.7	0.40	0.408	2,818,615	7.2	0.53	6,274,417	7.2	0.1	
04/18/19		17,270,735						2,834,848			6,312,336	I	ļ	
04/30/19		17,336,326	65,591				_	2,855,668			6,362,011	L	ļ	
	05/01/19	17,338,042		April			Pounds Cr		l			I	ļ	
05/01/19		17,340,509		117,739			0.400	2,856,981	<u> </u>		6,365,212	<u> </u>	ļ	
05/09/19		17,366,641	26,132		7.8	0.43	0.441	2,866,635	7.2	0.39	6,383,940	7.2	0.6	
	06/01/19	17,467,893		May			Pounds Cr		l		ļ	I	ļ	
06/06/19		17,492,562		129,851			0.477	2,856,981			6,365,212			
06/06/19		17,492,562			7.6	0.23	0.249	2,908,632	7.2	0.32	6,478,871	7.0	0.2	
06/11/19		17,502,105						2,912,952			6,486,321			
06/18/19		17,525,532	23,427					2,920,258			6,503,730			
	07/01/19	17,581,030		June			Pounds Cr							
07/08/19		17,613,923	88,391	113,137			0.235	2,947,437			6,572,415	1		

#### TABLE 1 Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site Appleton, Wisconsin Terracon Project No. 58117057

			OUTFA	LL 001				Ma	nhole	#1	Ма	nhole	#2
							Total						
						Hexavalent	Chromium						
						Chromium	Lab						
		Metered	Gallons			Lab Analysis	Analysis <sup>1</sup>	Flow		Hexavalent	Flow		Hexavalent
	Date	Discharge	Discharged	Monthly		(mg/L)	(mg/L) [Local	Totalizer #1		Chromium	Totalizer #2		Chromium
	For Linear	Reading	<b>Between Meter</b>	Discharge		[Local Limit	Limit 7.0	Reading		Hach Test	Reading		Hach Test
Date Actual	Interpolation	(gallons)	Reading	(gallons)	рΗ	4.5 mg/L]	mg/L]	(gallons)	рΗ	Kit (mg/L)	(gallons)	рΗ	Kit (mg/L)
Italicized red t	Italicized red type metered discharge reading was calculated by linear interpolation to 12 midnight.												

Industrial User (Wastew	vater Discharge) Permit 18-21	Outfall 001 Effluent Limits
рН	Hexavalent Chromium	Total Chromium

Between 5.0 and 12.4 s.u. <4.5 mg/L <7.0 mg/L

<sup>1</sup> Beginning in September 2018, the Total Chromium lab sample was not filtered. Previously, through August 2018, the sample was filtered (0.45 micron filter). \* On 3/31/18, the MH1 flowmeter face was blank. Upon replacing the batteries, the totalizer reading reverted to 2,472,869 gallons, a difference of -112,848 gallons from the previous known total.

City of Appleton Compliance Limits, Outfall 001		TABLE 2		
	City of Appleton	Compliance	Limits, Outfall 001	

Huminum         Anemic         Cardinium         Coppet         Cyanide         Lead         Mercury         Kneel         Znnc         Chronic           Permit 318-21 Limits         70         10         0.3         7.0         3.5         1.0         2.0         0.002         2.0         10.0         -           CH2M HII         052097         -003         -0005         0.0001         -0005         -00001         -0005         -00001         -0006         <						Chromium							Hexavalent
Permet #18-21 Limits         70         1.0         0.3         7.0         3.5         1.0         2.0         0.002         2.0         10.0         4.00           CH2M Hill         022/017         <.002			Aluminum	Arsenic	Cadmium	Total <sup>1</sup>	Copper	Cyanide	Lead	Mercury	Nickel	Zinc	Chromium
Sampler			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
CH2M HII         02/20197         <0.02         <0.006         0.041         <0.017         <0.006         <0.0017         <0.006         <0.0017         <0.006         <0.0017         <0.006         <0.0017         <0.006         <0.0017         <0.006         <0.0017         <0.006         <0.0017         <0.006         <0.0017         <0.0002         <0.017         <0.0002         <0.04         <0.0027         <0.017         <0.0002         <0.04         <0.0027         <0.017         <0.0002         <0.04         <0.0028         <0.0028         <0.0028         <0.0002         <0.001         <0.0002         <0.001         <0.0002         <0.001         <0.0012         <0.001         <0.0012         <0.001         <0.0012         <0.0012         <0.0011         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0012         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014         <0.0014 <th< td=""><td></td><td></td><td>70</td><td>1.0</td><td>0.3</td><td>7.0</td><td>3.5</td><td>1.0</td><td>2.0</td><td>0.002</td><td>2.0</td><td>10.0</td><td>4.5</td></th<>			70	1.0	0.3	7.0	3.5	1.0	2.0	0.002	2.0	10.0	4.5
CH2M*IIII         00324398         0.011         c.0002         c.0007         c.0006         c.2000         c.1         c.0002         c.014         c.000         c.011         c.0002         c.014         c.0002         c.014         c.0002         c.014         c.0002         c.014         c.0002         c.001         c.11         c.0002         c.001         c.012         c.011         c.012         c.012         c.012         c.011         c.012         c.012 <thc.011< th="">         c.011         c.011<td></td><td></td><td>&lt;.02</td><td>&lt;.003</td><td>&lt;.00050</td><td>0.04</td><td>&lt;.01</td><td>&lt;.00001</td><td>&lt;.005</td><td>&lt;.0002</td><td>&lt;.005</td><td>0.0051</td><td>&lt;.01</td></thc.011<>			<.02	<.003	<.00050	0.04	<.01	<.00001	<.005	<.0002	<.005	0.0051	<.01
Appletion         1007788           0.0280         0.7100         <          0.0000          0.0000          0.0000          0.0000          0.0000          0.0000          0.0000          0.0000          0.0000         0.													0.1000
MCO         03/18/99          0.003           0.0016         0.1000         0.0005         0.0010         0.1000         0.0005         0.0010         0.1000         0.0005         0.0010         0.1000         0.0005         0.0010         0.1000         0.0005         0.0000         0.011         <.011         <.012         <.012         <.012         0.0010         0.1000         0.0005         0.0010         0.1000         0.0010         0.0010         0.011         <.014         0.0020         0.0011         <.011         0.0011         <.011         0.0011         0.0111         0.011         <.011         0.0011         <.011         0.0011         0.0111         0.011         <.011         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011         0.0111         0.0011													NA
Appleton         03/18/99         <0.011         <.002         <.005         <.045         <0.0030         <1         <0.0015         <0.01400         <0.01800         P           Appleton         0271500         <.015													NA
Appleton         0921199         -0011         -002         <055         <055         <016         <0000         <1         <00015         <040         0.0080         <1           MCO         03/3:00         -0.009         <0.003													<.0036 NA
Appleton         02/15/00         -0.015         -0.0020         -0.096         -0.03         -0.0011         -0.012         P.1           Appleton         02/21/01         -0.15         -0.002         -0.003         0.011         -0.15         -0.0013         -0.012         -0.011         -0.0021         -0.011         -0.0021         -0.011         -0.0021         -0.011         -0.0021         -0.011         -0.0021         -0.011         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0021         -0.0011         -0.0011													NA
MCO         03/1300         -0.008         -0.0031         0.1400         -0.0044         -0.0044         -0.0044         -0.0015         -0.012         -0.011         -0.03         0.011         -0.03         -0.011         -0.003         -0.11         -0.003         -0.11         -0.003         -0.11         -0.003         -0.11         -0.003         -0.11         -0.003         -0.013         -0.0005         .0.0005         -0.0005         .0.0005         -0.0005         .0.0005         -0.0005         .0.0005         -0.0005         .0.0005         -0.0005         .0.0005         -0.0005         .0.011         -0.0005         .0.00028         .0.0017         .0.0017         .0.0017         .0.0017         .0.0018         .0.0007         .0.00028         .0.0018         .0.0017         .0.00028         .0.0018         .0.0017         .0.0018         .0.0017         .0.0018         .0.0017         .0.0018         .0.0017         .0.0018         .0.0017         .0.0018         .0.0017         .0.0018         .0.0017         .0.0018         .0.0026         .0.0018         .0.0026         .0.0018         .0.0026         .0.0018         .0.0026         .0.0018         .0.0026         .0.0018         .0.0027         .0.0018         .0.0027         .0.0018         .0.													NA
MCO         0301101         <0.334         <0.0027         0.108         <0.003         c.017         c.0003         c.038         c.0005         c.008         c.0005         c.0017         c.00027         c.017         c.0005         c.017         c.0005         c.017         c.0005         c.017         c.0005         c.017         c.012         c.0005         c.017         c.012         c.0005         c.0017         c.0002         c.0004         c.00028         c.00041         c.011         c.011         c.010         c.0004         c.00028         c.00048         c.00028         c.00048         c.00028         c.00028         c.00048         c.00028         c.00041         c.011         c.011         c.0014         c.00044         c.0028         c.0024         c.00044         c.0028         c.00021         c.00044         c.0028         c.00021         c.0014         c.00044         c.0022         c.0011         N         C.0011         N         C.0011         N         C.00051         c.00121         c.0011         N         C.00051         c.00021         c.00121         c.0011         N         C.00051         c.00051         c.00051         c.00021         c.00121         C.0012         C.0022         c.0022         c.0022 <t< td=""><td></td><td></td><td>&lt;.009</td><td>&lt;.003</td><td></td><td>0.1400</td><td>&lt;.0006</td><td>&lt;.0044</td><td>&lt;.0024</td><td></td><td>0.0012</td><td>&lt;.012</td><td>NA</td></t<>			<.009	<.003		0.1400	<.0006	<.0044	<.0024		0.0012	<.012	NA
Appleton         1002/01         0.016         <.002         <.005         0.017         <.0077         <.0077         <.0077         <.0077         <.0077         <.0077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00077         <.00078         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00038         <.00033         <.00033         <.00033 <td></td> <td>NA</td>													NA
MCO         03/19/02         <.0.34         <.0.0075         0.362         <.0.0077         <.0.007         <.0.005         <.0.017         <.0.005         <.0.017         <.0.005         <.0.017         <.0.005         <.0.017         <.0.005         <.0.017         <.0.005         <.0.0074         <.0.005         <.0.0074         <.0.005         <.0.0044         0.0.0044         0.0.0044         0.0.0044         0.0.0044         0.0.0044         0.0.0044         0.0.0044         0.0.0054         0.0.0041         0.0.0044         0.0.0044         0.0.0041         0.0.0044         0.0.0041         0.0.0044         0.0.0011         0.0.0011         0.0.011         0.0.0012         0.0.0012         0.0.0012         0.0.0011         0.0.0011         0.0.0011         0.0.0011         0.0.0012         0.0.0012         0.0.0012													<.0036
Appleton         0502/02         <0.49         <0.11         <0.001         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0013         <0.00021         <0.00031         <0.00031         <0.00031         <0.00031         <0.00031         <0.00031         <0.00031         <0.00031         <0.00021         <0.0022         <0.0023         <0.0023         <0.0011         <0.0011         <0.0012         <0.00021         <0.0012         <0.00021         <0.0012         <0.00021         <0.0012         <0.00021         <0.0011         <0.0012         <0.00021         <0.0012         <0.0011         <0.0012         <0.0011         <0.0012         <0.0011         <0.0012         <0.0011         <0.0013         <0.0022         <0.0011         <0.0013         <0.0021         <0.0013         <0.0011         <0.0002         <0.0011         <0.0002         <0.0011         <0.0001         <0.0003         <0.0002         <0.0011         <0.0011         <0.0011         <0.0011         <0.0001         <0.0011													NA
Appleton         11/12/02         0.027         <0.0061         0.73         <0.007         <0.0084         <0.00028         0.0081         0.0081         0.0081         0.0081         0.0011         <0.00028         0.00028         0.00081         0.0011         <0.00028         0.00028         0.00081         <0.0011         <0.00028         0.00028         0.00028         <0.0002         <0.0022         <0.0014         <0.0014         <0.0011         <0.00028         <0.0002         <0.0022         <0.0014         <0.0011         <0.0002         <0.0022         <0.0011         <0.0012         <0.0002         <0.0022         <0.0011         <0.0012         <0.0002         <0.0012         <0.0002         <0.0012         <0.0011         <0.0002         <0.0012         <0.0011         <0.0002         <0.0012         <0.0011         <0.0002         <0.0012         <0.0011         <0.0002         <0.0011         <0.0002         <0.0011         <0.0002         <0.0021         <0.0011         <0.0002         <0.0021         <0.0014         <0.0002         <0.0021         <0.0014         <0.0002         <0.0021         <0.0011         <0.0002         <0.0021         <0.0011         <0.0002         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.													<.0036 NA
Appleton         02/11/03													NA
Appleton         03/24/03         -0.045         -0.0017         <0.008         0.113         0.075         <0.0060         <0.0002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.001         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0.001         <0													NA
Appleton         0322404         <0.0026         <0.0010         <0.15         <0.0060         <0.0016         <0.0010         <0.0010         <0.0010         <0.0010         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0013         <0.0011         <0.0013         <0.0011         <0.0013         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0021         <0.0011         <0.0011 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>&lt;.0036</td></th<>													<.0036
Appleton         1109044         0.0071         c0.0012         c0.0018         c0.008         c0.008         c0.0081         c0.0021         c0.0013         c0.0011         c0.0012         c0.0012         c0.0011         c0.0012         c0.0012         c0.0012         c0.0011         c0.0012         c0.0011         c0.0012         c0.0011         c0.0012         c0.0011         c0.0012         c0.0011         c0.0005         c0.0005         c0.0008         c0.0002         0.0012         c0.0011         c0.0012         c0.0011         c0.0014         c0.0022         c0.021         c0.0024         c0.0021         c0.0024         c0.0021         c0.0033         c0.0021         c0.0024         c0.0011 <thc0.011< th=""> <thc0.011< th=""> <thc0.011<< td=""><td>Appleton</td><td>10/23/03</td><td>0.0045</td><td>0.0013</td><td>&lt;0.0001</td><td>0.221</td><td>&lt;0.0008</td><td>&lt; 0.005</td><td>&lt; 0.0006</td><td>0.0002</td><td>&lt;0.025</td><td>&lt;0.010</td><td>NA</td></thc0.011<<></thc0.011<></thc0.011<>	Appleton	10/23/03	0.0045	0.0013	<0.0001	0.221	<0.0008	< 0.005	< 0.0006	0.0002	<0.025	<0.010	NA
MECO         0806906         0.023         -0.0033         -0.0039         0.0019         -0.0011         -0.000026         -0.00044         0.0022         -0.0101         P           Appleton         10/95/06         -0.0052         -0.0011         -0.00011         -0.00011         -0.00011         -0.00011         -0.00011         -0.00012         -0.0011         P         -0.0012         -0.0011         P         -0.0014         -0.0022         -0.0101         P           MCO         03/23/06         -0.200         -0.0076         -0.00074         .0700         0.0018         -0.0034         -0.00022         -0.0021         -0.022         -0.0021         -0.022         -0.0021         -0.0022         -0.0021         -0.0022         -0.0021         -0.0022         -0.0021         -0.0021         -0.0022         -0.0011         -0.011         P         -0.001         -0.011         -0.002													NA
Appleton         11/05/06         0.0021         <0.0011         0.088         <0.0005         <0.0006         <0.0002         0.0017         <0.0171         <0.0101           MGC         0.0223/06         <0.0021													NA
Appleton         0222/06         0.0007         <0.0007         <0.00005         <0.00005         <0.00005         <0.00002         <0.0002         <0.0002         <0.0002         <0.0002         <0.0001         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0007         <0.0001         <0.0007         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.0001         <0.001													<0.005 NA
MCO         0322/06         c-0.0076         c-0.00074         0.32         0.0018         c-0.0034         c-0.00026         0.0033         c-0.0020         c-0.0012           Appleton         06/27/06         c-0.0077         c-0.0071         c-0.0011         c-0.0004         c-0.0004         c-0.0002         c-0.002         c-0.0012         c-0.002         c-0.0012         c-0.002         c-0.0012         c-0.0012         c-0.0012         c-0.0012         c-0.0012         c-0.0014         c-0.001         c-0.014         c-0.001         c-0.014         c-0.013         c-0.0014         c-0.001         c-0.014         c-0.013         c-0.011         c-0.016         c-0.0013         c-0.0011         c-0.016         c-0.013         c-0.0011         c-0.011         c-0.013         c-0.0014         c-0.012         c-0.011         n-0.024         c-0.0011         c-0.014         c-0.011         n-0.014         c-0.0012         c-0.011         n-0.014         n-0.0014         c-0.011         n-0.014         n-0.0014         c-0.011         n-0.014         c-0.011													NA
Appleton         06/27/06         -0.007         -0.0071         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0002         -0.0011         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.01         -0.001         -0.001         -0.001         -0.001         -0.001         -0.011         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.001         -0.002         -0.001         -0.002         -0.001         -0.002         -0.001         -0.002         -0.001         -0.002         -0.001         -0.002         -0.002         -0.002         -0.011         -0.006         -0.0014         -0.0002         -0.011         -0.002         -0.011         -0.006         -0.0014         -0.0011         -0.011         -0.011         -0.001         -0.011         -0.001<													NA
Appleton         10/05/06         0.037         <0.0011         <0.001         <0.001         <0.001         <0.0002         <0.0026         <0.0010            Appleton         03/22/07         <0.07													<0.350
MCO         0.402/07         0.0333         0.00024         0.000086         1.41         0.0011         <0.0013         <0.0019         0.0035         0.0091         P           Appleton         12/04/07         <0.007		10/05/06	0.037	<0.00011	<0.0001	4.575	0.0068	0.01	<0.001	<0.0002	0.0026	<0.010	NA
Appleton         1204/07         -0.07         -0.001         <0.01         3.4         <0.01         0.008         <0.03         <0.002         <0.04         <0.01           Appleton         01/16/08         0.21         <0.005		03/22/07	<0.07	<0.07	<0.01			<0.004	< 0.03	<0.0002	<0.04	<0.01	NA
Appleton         01/16/08         0.21         <0.005         <0.01         <0.03         0.02         0.0003         <0.04         0.04         0.04           OMININ         04/08/08         0.0114         0.00043         0.0011         0.864         0.0043         0.014J         0.000095J         <0.0001													NA
ÔMINI         04/08/08         0.0114         0.00043         0.0011         0.864         0.0043         0.014 J         0.000095 J         <0.001         0.0024         0.0071         0.0           Appleton         08/19/08         <0.08         <0.001         <0.011         <0.055         <0.003         <0.002         <0.02         <0.012         <0.002         <0.012         <0.002         <0.012         <0.001         0.0016         J         <0.001         <0.0016         J         <0.0016         J         <0.0016         J         <0.0016         J         <0.0016         J         <0.0016         <0.0016         J         <0.0016         <0.0016         <0.0016         <0.0016         <0.0016         <0.0016         <0.0016         <0.0022         <0.0011         <0.0011         <0.0011         <0.008         <0.008         <0.002         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0011         <0.0012         <0.0012         <0.0011         <0.0011         <0.0012         <0.0012         <0.0012         <0.0012         <0.0011         <0.0011         <0.0011         <0.0010 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.5</td></th<>													1.5
Appleton         08/19/08         <0.08         <0.001         <0.01         0.95         <0.01         0.005         <0.03         0.0002         <0.02         <0.01         N           Appleton         03/31/09         <0.09													NA 0.063
Appleton         03/31/09         <0.09         <0.012         <0.01         0.99         <0.01         <0.008         <0.05         <0.0002         <0.02         <0.011         N           OMINNI         04/07/09         <0.0151													0.003 NA
OMINI         04/07/09         <0.0151         0.003 J         0.00040 J         0.767         0.0024 J         <0.0060         <0.0014         <0.0016 J         0.0015 J         0.0017 J         0           Appleton         09/2/09         <0.08													NA
Appleton         03/02/10         <0.06         <0.002         <0.01         1.6         <0.01         <0.008         <0.03         <0.0002         <0.01         <0.01            OMINNI         04/06/10         0.0501 J         <0.0014													0.84
OMNNI         04/06/10         0.051 J         <0.0014         0.00043 J         1.16         0.0024 J         <0.0061         <0.00075         <0.0011         0.0023 J         0.0046 J         1           Appleton         11/02/10         <0.01													NA
Appleton         11/02/10         <0.01         <0.01         <0.01         <0.01         <0.008         <0.03         <0.0002         <0.01         <0.01            Appleton         02/24/11         <0.08													NA
Appleton         02/24/11         <0.08         <0.001         1.5         <0.01         0.008         <0.04         <0.0002         <0.02         <0.01         N           OMNNI         04/05/11         0.0725 J         0.0025 J         <0.0026													1.3
OMNNI         04/05/11         0.0725 J         0.0025 J         <0.00026         0.401         0.0028 J         <0.0014         <0.0010         0.00053 J         0.0023 J         0           Appleton         10/26/11         <0.08													NA NA
Appleton         10/26/11         <0.08         <0.005         <0.01         1.2         <0.01         0.007         <0.04         <0.002         <0.02         <0.01         1           Appleton         03/21/12         <0.11													0.40
Appleton         03/21/12         <0.11         <0.004         <0.01         1.3         0.01         0.007         <0.04         <0.002         <0.02         <0.01         N           Terracon         04/05/12         <0.0695													NA
Appleton         10/04/12         0.0865         0.0051         0.00049         1.43         0.0028 J         0.026         0.0022         0.0001         0.0019 J         <0.0053         N           Terracon         04/11/13         0.078         <0.004													NA
Terracon         04/11/13         0.078         <0.004         <0.0048         0.431         0.0024 J         <0.0038         <0.027         <0.0010         0.00013 J         <0.0024         M           Appleton         04/17/13         <0.0714	Terracon												0.83
Appleton         04/17/13         <0.0714         <0.0042         <0.00048         0.279         0.0029 J         <0.0038         <0.027         <0.0010         0.00062 J         <0.0024         M           Appleton         11/20/13         <0.0714													NA
Appleton         11/20/13         <0.0714         <0.0042         <0.00048         1.13         0.0018 J         0.0044 J         <0.027         <0.0010         0.0088 J         0.0034 J         M           Appleton         04/15/14         0.119 J         <0.0068													0.42
Appleton         04/15/14         0.119 J         <0.0068         <0.001         0.27         0.0036 J         <0.006         <0.0016         <0.0010         <0.0013         <0.0058         M           Terracon         05/13/14         0.116 J         <0.0068													NA NA
Terracon         05/13/14         0.116 J         <0.0068         <0.001         0.273         0.0034 J         <0.060         0.0040 J         <0.0010         <0.0013         0.0064 J         0           Appleton         9/24/2014         <0.0655													NA
Appleton         9/24/2014         <0.0655         <0.0068         <0.001         0.757         <0.0034         <0.010         <0.0016         <0.0010         <0.0013         <0.0058         M           Terracon         4/15/2015         0.054 J         <0.0072													0.28
Appleton         6/3/2015         <0.0655         <0.0068         <0.001         0.504         <0.0034         <0.020         <0.0016         <0.0010         0.0013         <0.0058         M           Appleton         10/21/2015         0.105 J         <0.0068													NA
Appleton         10/21/2015         0.105 J         <0.0068         <0.0010         0.676         <0.0034         <0.010         0.0024 J         <0.0010         <0.0013         0.0078 J         M           Terracon         5/12/2016         0.0637 J         <0.0072													0.92
Terracon         5/12/2016         0.0637 J         <0.0072         <0.00060         0.645         <0.0036         <0.0068         <0.0030         <0.0013         0.0018 J         <0.0013         0           Appleton         5/17/2016         <0.090													NA
Appleton         5/17/2016         <0.090         <0.001         <0.010         0.530         <0.010         <0.007         <0.030         <0.0002         <0.020         <0.010         N           Appleton         11/1/2016         <0.090													NA 0.70
Appleton         11/1/2016         <0.090         <0.010         <0.010         0.560         <0.010         <0.007         <0.030         <0.0002         <0.020         <0.010         N           Appleton         4/27/2017         <0.060													0.70 NA
Appleton         4/27/2017         <0.060         <0.001         <0.010         0.370         <0.010         0.007         <0.030         <0.002         <0.020         <0.010         N           Terracon         6/8/2017         <0.0555													NA
Terracon         6/8/2017         <0.0555         <0.0083         <0.0013         0.345         <0.0063         <0.0068         <0.0043         <0.00013         <0.0026         <0.0093         0           Appleton         11/9/2017         <0.060													NA
Appleton         11/9/2017         <0.060         0.001         0.010         0.770         <0.010         <0.007         <0.030         <0.0002         <0.020         <0.010         N           Appleton         5/22/2018         NA         <0.015													0.35
Terracon         6/7/2018         0.0713 J         <0.0083         <0.0013         0.382         <0.0063         <0.014         <0.0043         <0.00013         <0.0026         <0.0093         0	Appleton												NA
													NA
													0.38
						0.325	0.004	<0.009	<0.005	<0.0002	0.004	0.004	NA NA

N.W. Mauthe Superfund Site - Appleton, WI

<sup>1</sup> Beginning in September 2018, the Total Chromium lab sample was not filtered. Previously, through August 2018, the sample was filtered (0.45 micron filter).



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

April 10, 2019

Scott Hodgson Terracon, Inc. - Franklin 9856 South 57th Street Franklin, WI 53132

RE: Project: 58117057 MAUTHE Pace Project No.: 40185074

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Day Milent

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

Enclosures





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## CERTIFICATIONS

Project: 58117057 MAUTHE

Pace Project No.: 40185074

## **Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



# SAMPLE SUMMARY

Project: 58117057 MAUTHE

Pace Project No.: 40185074

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40185074001	OUTFALL-001	Water	04/02/19 07:40	04/02/19 12:33



# SAMPLE ANALYTE COUNT

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40185074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40185074001	OUTFALL-001	EPA 6010	TXW	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G



# SUMMARY OF DETECTION

Project: 58117057 MAUTHE

Pace Project No.: 40185074

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40185074001	OUTFALL-001					
EPA 6010 SM 3500-Cr B (Online)	Chromium Chromium, Hexavalent	408 0.40	ug/L mg/L	10.0 0.043	04/04/19 16:31 04/02/19 13:10	



## **PROJECT NARRATIVE**

Project: 58117057 MAUTHE

Pace Project No.: 40185074

# Method: EPA 6010

Description:6010 MET ICPClient:Terracon, Inc. - FranklinDate:April 10, 2019

## General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

## Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:



## **PROJECT NARRATIVE**

Project: 58117057 MAUTHE

Pace Project No.: 40185074

Method:	SM 3500-Cr B (Online)
<b>Description:</b>	Chromium, Hexavalent
Client:	Terracon, Inc Franklin
Date:	April 10, 2019

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



# ANALYTICAL RESULTS

Project: 58117057 MAUTHE

Pace Project No.: 40185074

Sample: OUTFALL-001	Lab ID:	40185074001	Collected	d: 04/02/19	9 07:40	Received: 04/	02/19 12:33 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	A 3010			
Chromium	408	ug/L	10.0	2.5	1	04/04/19 09:09	04/04/19 16:31	7440-47-3	
Chromium, Hexavalent	Analytical	Method: SM 35	500-Cr B (O	nline)					
Chromium, Hexavalent	0.40	mg/L	0.043	0.013	2.5		04/02/19 13:10		



# **QUALITY CONTROL DATA**

Project:	58117057 M	AUTHE											
Pace Project No.:	40185074												
QC Batch:	317361			Analys	is Method	: E	PA 6010						
QC Batch Method:	EPA 3010			Analys	is Descrip	tion: 6	010 MET						
Associated Lab Sar	mples: 4018	85074001											
METHOD BLANK:	1845268			Ν	Aatrix: Wa	ter							
Associated Lab Sar	mples: 4018	85074001											
				Blank	K R	eporting							
Parar	neter		Units	Resul	t	Limit	Analyz	ed	Qualifiers				
Chromium			ug/L		<2.5	10.0	04/04/19	16:01					
LABORATORY CO	NTROL SAMF	PLE: 184	5269										
				Spike	LCS	6	LCS	% Rec	;				
Parar	neter		Units	Conc.	Resu	ult	% Rec	Limits	Q	ualifiers	_		
Chromium			ug/L	500		482	96	80	-120				
MATRIX SPIKE & N	ATRIX SPIKE		ATE: 18452	70		1845271							
				MS	MSD								
			0185050001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
					500					75-125		20	

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



## **QUALITY CONTROL DATA**

Project:	58117057 MAUT	ΉE										
Pace Project No.:	40185074											
QC Batch:	317154		Analys	is Method	: S	M 3500-Cr	B (Online)					
QC Batch Method:	SM 3500-Cr B	(Online)	Analys	is Descrip	tion: C	hromium, H	exavalent b	y 3500				
Associated Lab Sam	nples: 4018507	4001										
METHOD BLANK:	1844114		Ν	latrix: Wa	ter							
Associated Lab Sam	nples: 4018507	4001										
Param	neter	Units	Blank Result		eporting Limit	Analyz	zed	Qualifiers				
Chromium, Hexaval	ent	mg/L	<0.0	0051	0.017	04/02/19	13:10					
LABORATORY CON	ITROL SAMPLE:	1844115										
Param	neter	Units	Spike Conc.	LCS Resu		LCS % Rec	% Rec Limits		ualifiers			
Chromium, Hexaval	ent	mg/L	0.3		0.30	100	90	-110		-		
MATRIX SPIKE & M	ATRIX SPIKE DU	IPLICATE: 1844	-		1844117							
		1010507	MS	MSD					04 D			
Paramete	r Uı	40185074001 nits Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavale	ent m	g/L 0.40	0.75	0.75	1.1	1.1	98	96	90-110	2	20	

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



## QUALIFIERS

Project: 58117057 MAUTHE

Pace Project No.: 40185074

## DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40185074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185074001	OUTFALL-001	EPA 3010	317361	EPA 6010	317454
40185074001	OUTFALL-001	SM 3500-Cr B (Online)	317154		

HOIBSOTY		1 may				Z		LAB COMMENTS Profile #	(Lab Use Olity)						~	Receipt	Sampale Receipt pH OK /)Adjusted	Cooler Custody Seal Present/ Not Present	Intact / Not Intact Version 6.0 06/14/06 ORIGINIAI
<b>REGION</b> WI: 920-469-2436	Quote #: Mail To Contact:	Mail To Company: Mail To Address:		Invoice To Contact:	Invoice To Company:	Invoice To Address:	Invoice To Phone:	CLIENT						VI7/19845	Date/Time: U-2-19 172 3		Date/Time:	Date/Time:	
UPPER MIDWEST REGION MN: 612-607-1700 WI: 93		F=Methanol G=NaOH J=Other												Received by	Record A	Received By:	Received By:	Received By:	
Ce Analytical <sup>®</sup>	Preservation COS	SO4 D=HNO3 E=DI Water I=Sodium Thiosulfate			March Line and Lines	-Prow Chron	) y :  7]	-H	AC-1 (AC-1					Uate/Time: 41249 0830	ë	Date/Time:	Date/Time:	Date/Time:	
ace	B	H=Notive B=HCL C=HZSO4 H=Sodium Bisulfate Solution	FILTERED? (YES/NO) PRESERVATION Prek	(CODE)* Letter	peis	ix Codes W = Water DW = Drinking Water	und Water ace Water ite Water	nA	(ULU)					Relinguished By A. Hodysm	$\square$	Religiquished By:	Relinquished By:	Relinquished By:	
Con Lon Lauke	Phone: <u>J 6011 170 9 50M</u> Project Number: 58117057	Mauth	Project State: w.T Sampled By (Print): 5 , Att & L-h.J.	with the	1	ple A = Air B = Biota	(Diliable)		661 OUTFALL-001 41849					Kush Turnaround Time Requested - Prelims Rei (Rush TAT subject to approval/surcharge) Date Needed:	(complete what you want):		l eleptione: Reli Fax:	Samples on HOLD are subject to special pricing and release of flability	C019a(27Jun2006)

Date/ Time:		Volume (T (T (T M N N N N N N N N N N N N N N N N N N	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	Headspace in VOA Vials (>6mm) :  □Yes  □No  材NA *If yes look in headspace column				1 [
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Isted):	Ŭ	SP5T																					; (>6m	JGFU	WGFU	WPFU	SP5T ZPLC
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All containers needing preservation have been checked and noted below: からい		U19A		alat eg				an a'				<u> </u>		-		<u> </u>						is to pr	Metric of the second second vorte vorte compared in the total 10X, 10H, 0&G, WI DRO, Phenolics, Other	1 liter amber glass	125 mL amber glass H2SO4	120 mL amber glass unpres	100 mL amber glass unpres 500 mL amber glass H2SO4 250 mL clear glass unpres
< L		Pace Lab # 001	002	003	004	ŝ	006	200	800	600	010	011	012	013	014	015	016	017	018	019	020	eption	AG1111 1	AG1H 1 li		AG4U 120	AG5U 100 AG2S 500 BG3U 250

(29Mar2018) Sample Preservation Receipt Form

Pace Analytical		cument Name: tion Upon Receipt (SCUR)	Document Revised: 25Apr2018
1241 Bellevue Street, Green Bay, WI 54		ocument No.: B-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office
Samp	le Condition Up	on Receipt Form (S	
·	op		
Client Name: Terraron			D#:40185074
Courier: CS Logistics Fed Ex Spe		# 1 AV 8	11 B m 1 m 1 m 1
Client Client Other		401s	<b>     </b>
Tracking #:			
Custody Seal on Cooler/Box Present: 厂 ye	s 🕇 no Seals intac	t: Ves E no	
Custody Seal on Samples Present:	no Seals intac	:t: □ ves □ no	
Packing Material: Bubble Wrap B	ubble Bags 🛛 🖓 Noi	ne 🔽 Other	
Inermometer Used <u>SR - 1/17</u>	Type of Ice: We		Samples on ice, cooling process has begun
Cooler Temperature Uncorr: Rol /Corr Temp Blank Present: ves 1/ no			
Temp Blank Present: $\Box$ yes $\int$ no Temp should be above freezing to 6°C. Biota Samples may be received at $\leq$ 0°C.	Biological	Tissue is Frozen: Tyes	Person examining contents: Date: <u>4</u> ·2·14 Initials: ₽∕
Chain of Custody Present:	ØYes □No □N/A	1	
Chain of Custody Filled Out:	□Yes ØNo □N/A		19 96
Chain of Custody Relinquished:			
Sampler Name & Signature on COC:			
Samples Arrived within Hold Time:		5.	
- VOA Samples frozen upon receipt			
Short Hold Time Analysis (<72hr):		Date/Time:	
Rush Turn Around Time Requested:	□Yes ØNo	6.	
Sufficient Volume:		7.	
For Analysis: ⊉yes □No MS/MS		8.	
Correct Containers Used:		-	
-Pace Containers Used:	ØYes □No	9.	
-Pace IR Containers Used:			
Containers Intact:			
	ØYes □No	10.	
iltered volume received for Dissolved tests			ter Soluble 4.2. R. PLS
Sample Labels match COC:	ØYes □No □N/A		
-Includes date/time/ID/Analysis Matrix:		bleeding. 4.2	·19 PG
rip Blank Present:		13.	
rip Blank Custody Seals Present ace Trip Blank Lot # (if purchased):	□Yes □No □N/A		
lient Notification/ Resolution:	1	1e	
Person Contacted:	Date/T	ime:	ee attached form for additional comments
Comments/ Resolution:			
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Project Manager Review:	AL for	Dha	Date: 4/2/19
			Page 15 of



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

May 16, 2019

Scott Hodgson Terracon, Inc. - Franklin 9856 South 57th Street Franklin, WI 53132

RE: Project: 58117057 MAUTHE Pace Project No.: 40187309

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Day Milent

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

Enclosures





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## CERTIFICATIONS

Project: 58117057 MAUTHE

Pace Project No.: 40187309

## **Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



# SAMPLE SUMMARY

Project: 58117057 MAUTHE

Pace Project No.: 40187309

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40187309001	OUTFALL-001	Water	05/09/19 07:50	05/09/19 14:10



# SAMPLE ANALYTE COUNT

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40187309

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40187309001	OUTFALL-001	EPA 6010	TXW	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G



# SUMMARY OF DETECTION

Project: 58117057 MAUTHE

Pace Project No.: 40187309

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40187309001	OUTFALL-001					
EPA 6010 SM 3500-Cr B (Online)	Chromium Chromium, Hexavalent	441 0.43	ug/L mg/L	10.0 0.043	05/13/19 21:10 05/09/19 15:10	



## **PROJECT NARRATIVE**

Project: 58117057 MAUTHE

Pace Project No.: 40187309

### Method: EPA 6010 Description: 6010 MET ICP

Description:6010 METTCPClient:Terracon, Inc. - FranklinDate:May 16, 2019

## General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

## Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:



## **PROJECT NARRATIVE**

Project: 58117057 MAUTHE

Pace Project No.: 40187309

Method:	SM 3500-Cr B (Online)
<b>Description:</b>	Chromium, Hexavalent
Client:	Terracon, Inc Franklin
Date:	May 16, 2019

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



# ANALYTICAL RESULTS

Project: 58117057 MAUTHE

Pace Project No.: 40187309

Sample: OUTFALL-001	Lab ID:	40187309001	Collected	1: 05/09/19	9 07:50	Received: 05/	/09/19 14:10 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	A 3010			
Chromium	441	ug/L	10.0	2.5	1	05/13/19 07:11	05/13/19 21:10	7440-47-3	
Chromium, Hexavalent	Analytical	Method: SM 35	500-Cr B (O	nline)					
Chromium, Hexavalent	0.43	mg/L	0.043	0.013	2.5		05/09/19 15:10		



# **QUALITY CONTROL DATA**

Project:	58117057 MAUTH	IE										
Pace Project No.:	40187309											
QC Batch:	321047		Anal	ysis Metho	d: I	EPA 6010						
QC Batch Method:	EPA 3010		Anal	ysis Descri	iption: 6	6010 MET						
Associated Lab Sar	nples: 40187309	001										
METHOD BLANK:	1865178			Matrix: W	/ater							
Associated Lab Sar	nples: 40187309	001										
_			Bla		Reporting							
Parar	neter	Units	Res	ult	Limit	Anal	yzed	Qualifier	S			
Chromium		ug/L		<2.5	10.	0 05/13/1	9 20:15					
LABORATORY CO	NTROL SAMPLE:	1865179										
			Spike	LC	CS	LCS	% Re	ec				
Parar	neter	Units	Conc.	Re	sult	% Rec	Limi	ts	Qualifiers			
Chromium		ug/L	50	00	468	9	4 8	30-120				
MATRIX SPIKE & M	IATRIX SPIKE DUF	PLICATE: 1865	180		1865181							
			MS	MSD								
		40187412001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium	ug/L	0.031 mg/L	500	500	518	515	97	97	75-125	0	20	

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



## **QUALITY CONTROL DATA**

Parameter	Units	s Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
		40187272002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
MATRIX SPIKE & M	ATRIX SPIKE DUF	PLICATE: 1863	797 MS	MSD	1863798							
Chromium, Hexaval	ent	mg/L	0.	3	0.29	90	6 9	90-110				
Paran	neter	Units	Conc.	Re	sult	% Rec	Limi	ts	Qualifiers			
LABORATORY COM	ITROL SAMPLE:	1863796	Spike	LC	S	LCS	% Re	ec				
Chromium, Hexaval	ent	mg/L	<(	).0051	0.017	7 05/09/1	9 11:20					
Paran	neter	Units	Blan Resu		Reporting Limit	Analy	/zed	Qualifier	S			
Associated Lab San	ples: 40187309	0001	-									
METHOD BLANK:	1863795			Matrix: W	/ater							
Associated Lab San	ples: 40187309	0001										
QC Batch Method:	SM 3500-Cr B (0	Online)	Analy	sis Descri	ption: C	Chromium,	Hexavalent	t by 3500				
QC Batch:	320881		Analy	sis Metho	d: 5	SM 3500-Ci	r B (Online)	)				
Pace Project No .:	40187309											
Project:	58117057 MAUTH	IE										

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



## QUALIFIERS

Project: 58117057 MAUTHE

Pace Project No.: 40187309

## DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40187309

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40187309001	OUTFALL-001	EPA 3010	321047	EPA 6010	321177
40187309001	OUTFALL-001	SM 3500-Cr B (Online)	320881		

Image: Solution of the	Alternation     Pade Analytical       1     Pade Analytical       1 <t< th=""><th>(P/ea Company Name:</th><th>Please Print Clearly)</th><th></th><th></th><th>Ľ</th><th></th><th></th><th></th><th>UPPER MI</th><th>UPPER MIDWEST REGION MN: 612-607-1700 WI: 9</th><th>UPPER MIDWEST REGION MN: 612-607-1700 WI: 920-469-2436</th><th>Bage .</th><th>ଟ</th><th></th></t<>	(P/ea Company Name:	Please Print Clearly)			Ľ				UPPER MI	UPPER MIDWEST REGION MN: 612-607-1700 WI: 9	UPPER MIDWEST REGION MN: 612-607-1700 WI: 920-469-2436	Bage .	ଟ	
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1241 Bellevue Street, Suite 9 Green Bay, WI 54302 9	J		Volume (mL)	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	uu.				
Sellevue Green E	Date/ Time:	р																					Headspace in VOA Vials (>6mm) : □Yes ⊡No ANA *If yes look in headspace column	t Second State Second M	].			
1241	エ		2≥ Hq €ONH																					l headsp		<u>e</u>		
	Initial when completed: U		21≤ Hq HOsV	1					5.16															look ir			120 mL plastic Na Thiosulfate ziploc bag	
	Initial comp	6≤ Hq	VaOH+Zn Act																			inten Line Line Line		*If yes	upres ores opres		a Thio	
			t≥ Hq ⊅OS1H									an Maria												ANA	<ul><li>4 oz amber jar unpres</li><li>4 oz clear jar unpres</li><li>4 oz plastic jar unpres</li></ul>		astic N	
		* (mm	9<) ≥lsiV AOV																					No	amber clear plasti		120 mL pla ziploc bag	
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	ab Std	Vials	, Н6ЭЛ																			-			<ul><li>40 mL amber ascorbic</li><li>40 mL amber Na Thio</li><li>40 mL clear vial unpres</li></ul>	40 mL clear vial HCL	40 mL clear vial MeOH 40 mL clear vial DI	
#		via	р Педи									- 1 - 1 						20 L										
Sample Preserv Project #	N/N		DG9T																					Other:	DG9A DG9T VG9U	VG9H	VG9N VG9D	
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	10U		BP3S																					D, Phen	Znact	250 mL plastic NaO(1, Zhad) 250 mL plastic NaOH 250 mL plastic NaOH 250 mL plastic HNO3		
	l below I paper		BP3N																					VI DR(	pres fNO3 VaOH,			
	d notec # of pF	tir	BP3B																					0&G, \	<ol> <li>liter plastic unpres</li> <li>mL plastic HNO3</li> <li>mL plastic NaOH, Znact</li> <li>mL plastic unpres</li> </ol>		250 mL plastic NaOH 250 mL plastic HNO3 250 mL plastic H2SO4	
	sked an Lab Lot	Plastic	Plas	Bb30							н -									_					TOH, 6	er plas mL pl mL pl	mL pl	mL pl
5	en chec	national sector in	BF2Z BP2N							-							_						_	TOX,				
	ave be	l	BPIU												-									I, TOC	BP1U BP2N BP2Z	BP3U	BP3B BP3N PP3S	
à CDi	/ation h		BG3U					-		9 909 12				a Ala		_								oliforn				
Jerracon Samp	presen		SZĐ¥																				0     1     1     1     1     1       Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:	/OA, C				
	Project # $\sqrt{0/(7) \Delta 1}$ $\square N \land \square N \land A$ Lab Std #ID of preservation (if pH adjusted):		USƏA									1												heck: V	L 2S04	pres	ipres 2SO4	
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me:	ll conts		S49A																					Jreserv	ber gla ber gla: nber gl	nber g	100 mL amber glass unpre 500 mL amber glass H2SC 250 mL class class	
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Ü			Pace Lab#	001	002	003	004	005	900	001	800	60	010	011	012	013	014	015	016	017	018	019	020	щ	AGIU AGIH AG4S	AG4U	AG5U AG2S BG3U	

Page <u>1</u> of <u></u>∕

F-GB	Waltco         t: $yes \square$ no         t: $\square$ yes $\square$ no         t: $\square$ Other         :       Blue Dry None         Tissue is Frozen: $\square$ A       1.         A       2. Nv pg + f         A       3.	Pace Gre (SCUR) WO#:4 40187309	ice, cooling proc	<u>309</u>
Iition Upo UPS UPS Seals intac Seals intac Seals intac of Ice: W Biological Biological	Project #: Project #: Valtco t: $\Box$ yes $\Box$ no t: $\Box$ yes $\Box$ no t: $\Box$ yes $\Box$ no ne $\Box$ Other : Blue Dry None Tissue is Frozen: $\Box$ A 1. A 2. No pg # A 3. A 4. 5. Date/Time: 6.	(SCUR) WO#:4 111111111111111111111111111111111111	IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	309 309 cess has begun mining contents -q - (q) Tk
UPS       No         Seals intac         Seals intac         gs       No         of Ice:       V         Biological         a       No         b       No         a       No         b       No         a       No	Project #: Naltco t: $\Box$ yes $\Box$ no t: $\Box$ yes $\Box$ no ne $\Box$ Other t: Blue Dry None Tissue is Frozen: $\Box$ A 1. A 2.No pg # A 3. A 4. 5. Date/Time: 6.	WO#:4	ice, cooling proc	cess has begun mining contents -4-19 -7k
Seals intac         Seals intac         gs       Nor         of Ice:       V         Biological         3       No	Waltco         t: $yes \square no$ t: $yes \square no$ t: $yes \square no$ ne $Other$ :       Blue Dry None         Tissue is Frozen: $\square$ A       1.         A       3.         A       4.         5.       Date/Time:         6. $\square$	40187309	ice, cooling proc	cess has begun mining contents -4-19 -7k
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Seals intac         gs       Non         of Ice:       V/         Biological         a       No         a       No         a       No         a       No         a       No         b       No         a       No         b       No         a       No         b       No         b       No         b       No         b       No         b       No	t: $\Box$ yes $\Box$ no ne $\Box$ Other : Blue Dry None Tissue is Frozen: $\Box$ A 1. A 2. $Nv$ $pg$ $+$ A 3. A 4. 5. Date/Time: 6.	, F	Person exar Date:	mining contents $-\frac{q}{f_k}$
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of Ice:         Image: Constraint of the second	Blue Dry None Tissue is Frozen: $\square$ A 1. A 2. $Nv$ $pg$ $+$ A 3. A 4. 5. Date/Time: 6.	, F	Person exar Date:	nining contents -4-19 Jk
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Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

June 17, 2019

Scott Hodgson Terracon, Inc. - Franklin 9856 South 57th Street Franklin, WI 53132

RE: Project: 58117057 MAUTHE Pace Project No.: 40188937

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Day Milent

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

Enclosures





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

### CERTIFICATIONS

Project: 58117057 MAUTHE

Pace Project No.: 40188937

### **Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



## SAMPLE SUMMARY

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40188937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40188937001	OUTFALL-001	Water	06/06/19 07:37	06/06/19 12:45



# SAMPLE ANALYTE COUNT

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40188937

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40188937001	OUTFALL-001	EPA 6010	TXW	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G



# SUMMARY OF DETECTION

Project: 58117057 MAUTHE

Pace Project No.: 40188937

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40188937001	OUTFALL-001					
EPA 6010 SM 3500-Cr B (Online)	Chromium Chromium, Hexavalent	249 0.23	ug/L mg/L	10.0 0.043	06/10/19 12:17 06/06/19 13:20	



### **PROJECT NARRATIVE**

Project: 58117057 MAUTHE

Pace Project No.: 40188937

### Method: EPA 6010

Description:6010 MET ICPClient:Terracon, Inc. - FranklinDate:June 17, 2019

### General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:



### **PROJECT NARRATIVE**

Project: 58117057 MAUTHE

Pace Project No.: 40188937

Method:	SM 3500-Cr B (Online)
<b>Description:</b>	Chromium, Hexavalent
Client:	Terracon, Inc Franklin

June 17, 2019

**General Information:** 

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

Date:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



## ANALYTICAL RESULTS

Project: 58117057 MAUTHE

Pace Project No.: 40188937

Sample: OUTFALL-001	Lab ID:	40188937001	Collected	I: 06/06/19	9 07:37	Received: 06/	06/19 12:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	3010			
Chromium	249	ug/L	10.0	2.5	1	06/07/19 06:56	06/10/19 12:17	7440-47-3	
Chromium, Hexavalent	Analytical	Method: SM 35	600-Cr B (Or	nline)					
Chromium, Hexavalent	0.23	mg/L	0.043	0.013	2.5		06/06/19 13:20		



## **QUALITY CONTROL DATA**

Project:	58117057 MAUTH	IE										
Pace Project No.:	40188937											
QC Batch:	323685		Analy	sis Metho	d: E	PA 6010						
QC Batch Method:	EPA 3010		Analy	/sis Descri	ption: 6	010 MET						
Associated Lab Sar	mples: 40188937	/001										
METHOD BLANK:	1879410			Matrix: W	/ater							
Associated Lab Sar	mples: 40188937	001										
			Blar	nk	Reporting							
Para	meter	Units	Res	ult	Limit	Analy	/zed	Qualifier	S			
Chromium		ug/L		<2.5	10.0	06/10/1	9 11:15					
Onioman		-										
LABORATORY CO	NTROL SAMPLE:	1879411										
LABORATORY CO		1879411	Spike	LC	-	LCS	% Ri		Qualifiers			
LABORATORY CO	NTROL SAMPLE:	1879411 Units	Conc.	Res	sult	% Rec	Limi	ts	Qualifiers			
LABORATORY CO		1879411	•	Res	-		Limi		Qualifiers			
LABORATORY CO	meter	1879411 Units ug/L	Conc50	Res	sult	% Rec	Limi	ts	Qualifiers	_		
LABORATORY CO Para Chromium	meter	1879411 Units ug/L	Conc50	Res	510	% Rec	Limi	ts	Qualifiers	_		
LABORATORY CO Para Chromium	meter	1879411 Units ug/L	412	Res	510	% Rec	Limi	ts	Qualifiers	_	Max	
LABORATORY CO Para Chromium	MATRIX SPIKE DUF	1879411 Units ug/L PLICATE: 1879 40188772001	412 MS	MSD	510 1879413	% Rec 102	Limi 2 &	ts		RPD	Max RPD	Qual

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



## **QUALITY CONTROL DATA**

Project:	58117057 MAUTH	IE										
Pace Project No.:	40188937											
QC Batch:	323635		Analy	ysis Metho	od: S	SM 3500-C	r B (Online)	)				
QC Batch Method:	SM 3500-Cr B (C	Online)	Analy	ysis Descri	iption: (	Chromium,	Hexavalent	t by 3500				
Associated Lab Sam	ples: 40188937	001										
METHOD BLANK:	1879031			Matrix: W	/ater							
Associated Lab Sam	ples: 40188937	001										
			Blar	nk	Reporting							
Param	eter	Units	Res	ult	Limit	Anal	yzed	Qualifier	S			
Chromium, Hexavale	ent	mg/L	<	0.0051	0.01	7 06/06/1	9 13:20					
LABORATORY CON	TROL SAMPLE:	1879032										
			Spike	LC	cs	LCS	% Re	ес				
Param	eter	Units	Conc.	Re	sult	% Rec	Limi	ts	Qualifiers			
Chromium, Hexavale	nt	mg/L	0.	.3	0.30	9	9 9	90-110				
MATRIX SPIKE & M	ATRIX SPIKE DUF	PLICATE: 1879	033		1879034							
			MS	MSD								
		40188937001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<u> </u>
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual

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



### QUALIFIERS

Project: 58117057 MAUTHE

Pace Project No.: 40188937

### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 58117057 MAUTHE

 Pace Project No.:
 40188937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40188937001	OUTFALL-001	EPA 3010	323685	EPA 6010	323847
40188937001	OUTFALL-001	SM 3500-Cr B (Online)	323635		

Company Name: TEGra Low Branch/Location: Wh: / wawker Project Contact: 5 Lott Hadgsoh Phone: 914-209-7440 Project Number: 58 117 057 Project Name: Mawthr		MN: 612-607-1700 WI: 920-469-2436	
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** 5 cott Hude 14-209-7 ** 58 117 05			40188431
14-209-7 58 117 05 Mawthr			
ï		DY Mail To Contact:	) The second se
	A-None B=HCL C=H2SO4 D=HNO3 E=DI Wayof F=Methenol	ol G=NaOH Mail To Company:	aany:
	H=Sodium Bisultate Solution I=Sodium Thioseffate J=Other	Mail To Address:	issa isa
Project State: 、 いゴ			,
Sampled By (Print): 5 at Q. Hode 501	PRESERVATION Pick O	Invoice To Contact:	ntact:
		Invoice To Company:	npany:
PO#: Regulatory Regulatory		Invoice To Address:	tress:
<b>OSW/SW</b>	Negu		)
(billable) (billable)	B = Biota DW = Dhinking Water C = Charcoal GW = Ground Water D O = Oil SW = Surface Water	Invoice To Phone:	ione:
I IENT FIFI D ID	Vater MATRIX	CLIENT	T LAB COMMENTS Profile #
OUT FALL-OU	256-1 ac-1 mm The start of the		
Rush Turnaround Time Requested - Prelims R (Rush TAT subject to approval/surcharge)	Relinguistierer By: Hoplander DaterTime.	Receivered Date 616	Mime: 0935 1 PACE Project No.
	And I	Reference By All Days Dates	1 CLOSING MC adult
Transmit Prelim Rush Results by (complete what you want): Email #1:	<u>ي</u> (	Bookwed By: // // // // Date	ALA I VI Receipt Temp = ROT °C
		>	Sample Receipt pH
Telephone: Receiver the second s	Kelinquished By: Date/Time:	Received By: Date/	Date/Time: Cooler Custody Seal
Samples on HOLD are subject to	Relinquished By: Date/Time: R	Received By: Date/	Date/Time: Present Mot Present

Pace Analytical Services, LL <sup>6</sup> 1241 Bellevue Street, Suite <b>9</b> 300 Green Bay, WI 54305	Pag	Volume	(mL)	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5 / 5 / 10	2.5 / 5 / 10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5 / 5 / 10	2.5 / 5 / 10	2.5 / 5 / 10	2.5 / 5 / 10	ų						(
nalytical sellevue Green B	Lime:	bəts	ulbs ուրեր Hq																					Headspace in VOA Vials (>6mm): □Yes □No □tyA *If yes look in headspace column	ſ					
Pace A 1241 E	Q		z≥ Hq EONH	$\mathbb{R}$																				headspi			2			
		7	l≤ Hq HO&N					2-12-1 -																ook in				ulfate		
	Initial whe	ct pH ≥9	A nZ+HO&N																			-		lf yes l	res	SS	51	Thios		
		7	≥ Hq 4O2tH																					I+ YA	ar unn	nupre		tic Na		
		* (mmd<	) elriv AOV																					No	4 oz amber iar unnres	4 oz clear jar unpres		120 mL plastic Na Thiosulfate zinloc hao	9	
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	sted):	Ge	Teas																	~	Ś	7		s (>6n	JGFU	WGFU		SP5T ZPLC		
	Lab Std #ID of preservation (if pH adjusted)		MPFU																	-	È	4		A Vial	┢					
	n (if p	Jars	MGFU																1	Nex 1	$\mathcal{H}$			in VO						
ple Preservation Receipt Form Project # UN 88937	ervatio		JGFU																	*1				dspace	rbic	Thio	CL -	leOH I		
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a C			<b>W6Э</b> Л		UC - 117													7							ambe	amber	clear	clear		
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rval #		Vials	П6ЭЛ													/														
ese ject	NN NO		Teəd												/									ther:	DG9A	DG9T VG9U	<b>VG9H</b>	VG9M VG9D		
e Pr	Yes INO INA	Summanud	DG9A												$f \mid$					· · · ·			-	nenolics, Other.						
npl	10 10		BP3S											71										Pheno		Znact				
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ر	oted b of pH p	U	BP3B									7				_								G, WI	unpre	ic HN ic Na	ic un	ic Nation In the second	ic H2:	•
à	cked and noted below. Lab Lot# of pH paper:	Plastic	BP3U								7	$\mathcal{A}$												Н, О&	1 liter plastic unpres	500 mL plastic HNO3 500 mL plastic NaOH.	250 mL plastic unpres	250 mL plastic NaOH 250 mL plastic HNO3	250 mL plastic H2SO4	1
J	theckee Lab	<b>A.</b>	ZZAB							$\neg$	1												a da la Uchi di	X, TO	liter l	Im 00	50 ml	50 mL 50 mL	50 mI	•
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(a)	rvatio		BG3U						$t \dagger$	-														Colifor	┢				_	c
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	iners n	Glass	∩¢9V			/	7									1				1000				tion cł	S	s HCI ass HZ	ass un	ass un ass H2	dun s	
me:	All containers needing preservation have been checked and noted below: A Lot# of pH paper.	<b>Y</b>	St DV			/	T																	eserva	r glas	er glas ber gli	ber gl:	ber gl: ber gl:	ar glas	0000
Naı	V		ніэу		X																			is to pr	ambe	ambe IL aml	L am	L aml	L clea	k
Client Name:			υιэν		/																			Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, PI	I liter amber glass	1 liter amber glass HCL 125 mL amber glass H2SO4	120 mL amber glass unpres	100 mL amber glass unpres 500 mL amber glass H2SO4	250 mL clear glass unpres	c r
Cli			Pace Lab#	001	002	003	004	005	900	50	800	600	010	011	012	013	014	015	016	017	018	019	020	Exc	VGIU	AG1H 1 AG4S 1	AG4U	AGSU 1 AG2S	BG3U2	Ę
					ne:65		12672				9738		<u> (19</u> 66)		1			-	025,69	-1		- 10			Y	A A	Ā	<b>~ ~</b>	ă	F

F-GB-C-046-Rev.02 (29Mar2018) Sample Preservation Receipt Form

V Page <u>1</u> of

Pace Analytical	Sample Co	ndition Upon Receipt ( Document No.:	SCUR)	cument Revised: 25Apr2018 Issuing Authority:	
1241 Bellevue Street, Green Bay, WI 5430	2	F-GB-C-031-Rev.07	Pa	ce Green Bay Quality Office	
Sample	Condition	Upon Receipt Fo	rm (SCU	R)	
		Project #			<del>an</del>
Client Name: <u> </u>	LON	· · · · ·	and the second	<b>‡:40188937</b>	
Courier: 🧮 CS Logistics 🧮 Fed Ex 👘 Speed	ee 🗖 UPS	Waltco		· +UT00221	
Client Client Other:					
Tracking #:			401889	37	
Custody Seal on Cooler/Box Present: 🗍 yes	-		<u> </u>		
Custody Seal on Samples Present: Г yes 🦒 Packing Material: Г Bubble Wrap Г Bub		intact: Tyes Tho			
Thermometer Used SR - NA	-	None Cother	San San	ples on ice, cooling process has begun	
Cooler Temperature Uncorr: ROT /Corr:			. <b>F</b> oan	iples on ice, cooling process has begun	1
Temp Blank Present: yes 🗶 no	Biolog	gical Tissue is Frozen:	∏ yes∏	no Person examining conten	ts:
Temp should be above freezing to $6^{\circ}$ C. Biota Samples may be received at $\leq 0^{\circ}$ C.				Date: 6-6-74 Initials:	+
Chain of Custody Present:	Øryes □No	□N/A 1.	· · · · · · · · · · · · · · · · · · ·		
Chain of Custody Filled Out:		□N/A 2.			
Chain of Custody Relinquished:		□N/A 3.	<u></u>		
Sampler Name & Signature on COC:					
Samples Arrived within Hold Time:	ØYes □No	5.			
- VOA Samples frozen upon receipt	∕ □Yes □No	Date/Time:			
Short Hold Time Analysis (<72hr):	ZYes DNo	6.			
Rush Turn Around Time Requested:	□Yes ZNo	7.			<b>A</b>
Sufficient Volume:		8.			
For Analysis: ⊉ <sub>Yes</sub> ⊡ <sub>No</sub> MS/MSD	∵⊡Yes 🗹No				
Correct Containers Used:	ØYes □No	9.			-
-Pace Containers Used:	ZYes □No				
-Pace IR Containers Used:	□Yes □No				
Containers Intact:	ØYes □No	10.			<u></u>
iltered volume received for Dissolved tests	□Yes □No	<b>Ø</b> N/A 11.			
Sample Labels match COC:	Yes No	□n/A 12.			
-Includes date/time/ID/Analysis Matrix:	<u> </u>	-			
rip Blank Present:	□Yes □No	ŹIN/A 13.			64924
rip Blank Custody Seals Present	□Yes □No				
Pace Trip Blank Lot # (if purchased):					
Person Contacted:	[	Date/Time:	checked, see	attached form for additional comments	L
Comments/ Resolution:		······································			
	······································			en e	
	A 7				
Project Manager Review:	Ah.6	~ m	E	Date: 10/10/19	