From: Glander, Nick <Nick.Glander@foth.com>
Sent: Monday, April 17, 2023 2:47 PM
To: Saliares, Gwen N - DNR
Subject: 2022-23 Annual Treatment Summary for Better Brite Superfund site
Attachments: Better Brite 2022-23 Summary Packet.pdf

Gwen,

In total, Foth processed 35 batches in the contract year - April 2022 through March 2023. An attached Better Brite WTP Summary Packet contains the following:

- Summary Page Table provides a total volume of water treated per month in table & graph format with drum fill and analytical sample collection dates
- WTP Process Log Table provides the individual batch detail
- Sludge Generation Summary
- Analytical Results Summary Table
- September Pace Lab Report
- March Pace Lab Report

Feel free to contact me with any questions.

Thank you;

Nick Glander
Lead Environmental Scientist

Foth Infrastructure & Environment, LLC
2121 Innovation Court, Suite 300
P.O. Box 5126
De Pere, WI 54115-5126
Office: (920) 496-6758
Fax: (920) 497-8516
Cell: (920) 362-8744
www.foth.com

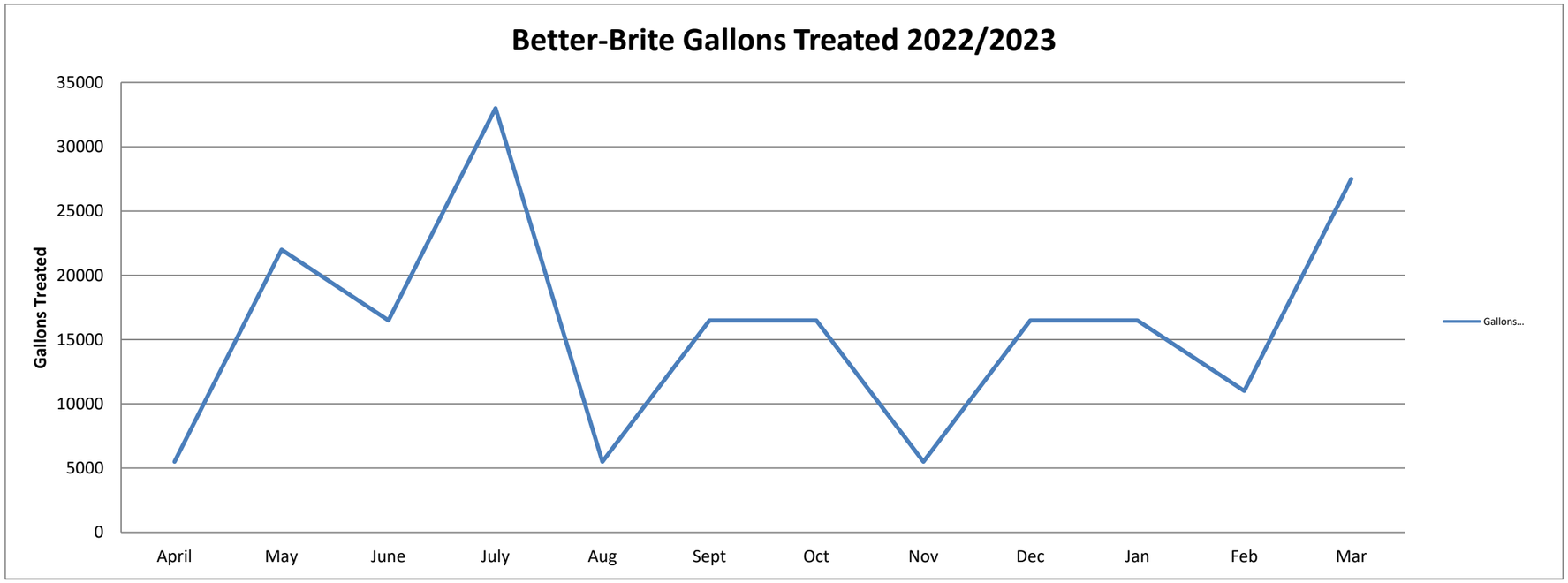
Better Brite 2022/2023 Treatment

Month	Gallons Treated	Batches Ran
April	5500	1
May	22000	4
June	16500	3
July	33000	6
Aug	5500	1
Sept	16500	3
Oct	16500	3
Nov	5500	1
Dec	16500	3
Jan	16500	3
Feb	11000	2
Mar	27500	5
	TOTAL	**35**

Drum #	Filled Date	Disposal Date
1	5/17/2022	8/23/2022
2		

Total Chrome Analytical Samples Collection Dates

Sample Rd	Date Collected	Date Analyzed
1	9/30/2022	10/10/2022
2	3/29/2023	4/3/2023



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Better-Brite WTP Processing Log 2022/2023

22W016

Date	Operator	Batch #	Gal Processed	H2SO4 - pH reduction to (s.u.)	NaHSO3 - ORP reduction to (mv)	Mg(OH)2/NaOH - pH raised to (s.u.)	Polymer feed (sec)	Batch Test Results Cr+6	Press Run Time (min)	Recycled Water (gal)	Sludge drum fille or Press cleaned / Comments
04/28/22	NMG1	1	5500	3.32	300	8.63	30	0.00	40	350	Calibrated Sensors
05/03/22	NMG1	2	5500	3.04	299	8.67	30	0.01	43	350	
05/11/22	NMG1	3	5500	3.21	305	8.53	30	0.01	35	350	Cleaned Press / Training for Dale C.
05/17/22	NMG1 / DMC4	4	5500	3.40	303	8.58	30	0.00	37	350	
05/27/22	DMC4	5	5500	3.31	310	8.70	30	0.02	41	350	
06/02/22	DMC4	6	5500	3.21	303	8.70	30	0.00	52	350	
06/03/22	DMC4	7	5500	3.09	307	8.63	30	0.00	54	350	
06/30/22	DMC4	8	5500	3.25	313	8.61	30	0.02	60	350	
07/06/22	DMC4	9	5500	3.44	300	8.69	30	0.00	40	350	Cleaned Press / Calibrated Sensors
07/11/22	DMC4	10	5500	3.38	300	8.66	30	0.03	45	350	
07/19/22	NMG1	11	5500	3.05	303	8.52	30	0.01	50	350	
07/26/22	DMC4	12	5500	3.48	304	8.68	30	0.02	55	350	
07/28/22	DMC4	13	5500	3.30	309	8.51	30	0.00	55	350	
07/29/22	DMC4	14	5500	3.40	299	8.64	30	0.03	57	350	
08/03/22	DMC4	15	5500	3.14	306	8.54	30	0.02	55	350	
09/06/22	DMC4	16	5500	3.06	310	8.51	30	0.01	40	350	Cleaned Press / Calibrated Sensors
09/23/22	DMC4	17	5500	3.16	299	8.69	30	0.00	45	350	
09/30/22	DMC4	18	5500	3.46	294	8.58	30	0.03	50	350	Influent / Effluent Samples Collected
10/18/22	NMG1	19	5500	3.14	303	8.52	30	0.00	50	350	
10/21/22	DMC4	20	5500	3.24	300	8.69	30	0.01	55	350	
10/26/22	DMC4	21	5500	3.02	300	8.67	30	0.02	55	350	
11/09/22	NMG1	22	5500	3.21	301	8.68	30	0.02	40	350	Cleaned Press / Calibrated Sensors
12/06/22	NMG1	23	5500	3.10	300	8.61	30	0.00	45	350	
12/09/22	DMC4	24	5500	3.03	304	8.68	30	0.01	45	350	
12/13/22	NMG1	25	5500	3.09	300	8.51	30	0.02	50	350	
01/06/23	NMG1	26	5500	3.11	301	8.56	30	0.00	50	350	

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Better-Brite WTP Processing Log 2022/2023

22W016

Date	Operator	Batch #	Gal Processed	H2SO4 - pH reduction to (s.u.)	NaHSO3 - ORP reduction to (mv)	Mg(OH)2/NaOH - pH raised to (s.u.)	Polymer feed (sec)	Batch Test Results Cr+6	Press Run Time (min)	Recycled Water (gal)	Sludge drum fille or Press cleaned / Comments
01/25/23	NMG1	27	5500	3.33	302	8.67	30	0.01	55	350	
01/26/23	DMC4	28	5500	3.29	298	8.54	30	0.00	60	350	Cleaned Press / Calibrated Sensors
02/01/23	DMC4	29	5500	3.02	297	8.70	30	0.00	40	350	
02/27/23	NMG1	30	5500	3.07	300	8.61	30	0.03	40	350	
03/03/23	NMG1	31	5500	3.17	301	8.53	30	0.02	45	350	
03/10/23	NMG1	32	5500	3.29	303	8.55	30	0.02	50	350	
03/15/23	NMG1	33	5500	3.14	300	8.64	30	0.01	55	350	Cleaned Press / Calibrated Sensors
03/20/23	NMG1	34	5500	3.20	300	8.70	30	0.00	45	350	
03/29/23	NMG1	35	5500	3.13	301	8.57	30	0.01	45	350	Influent / Effluent Samples Collected

Better-Brite Sludge Generation Data

Calendar Year 2022

MONTH	Drum(s) Filled	Date Filled	Date Transported	Small Q + 180 days
January	0			
February	0			
March	0			
April	0			
May	1	5/17/2022	8/23/2022	11/13/2022
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
TOTAL	0			

Notes -

Summary of Effluent and Influent Analytical Data
Better Brite Waste Treatment Plant
De Pere, WI 54115

Sample ID	Date	Total Chromium (ug/L)	Total Zinc (ug/L)	Total Cyanide (mg/L)	Hexavalent Chromium (mg/L)
Lot Trench	11/12/2010	4,380	NS	NS	NS
Grass Trench	11/12/2010	17,100	NS	NS	NS
Influent	6/23/2011	4,520	34.0 J	0.34	4.4
Effluent	6/23/2011	231	1.8 J	0.32	<0.0039
Influent	6/27/2011	4,810	21.2 J	0.3	4.4
Effluent	6/27/2011	974	2.5 J	0.21	<0.0039
Influent	6/28/2011	4,460	16.9 J	0.31	4.1
Effluent	6/28/2011	1,070	<1.6	0.25	<0.0039
Influent	6/29/2011	4,230	10.7 J	0.29	3.9
Effluent	6/29/2011	998	<1.6	0.23	<0.039
Influent	12/23/2011	6,850	NS	NS	NS
Effluent	12/23/2011	765	NS	NS	NS
Influent	8/3/2012	7,220	NS	NS	NS
Effluent	8/3/2012	513	NS	NS	NS
Influent	2/8/2013	7,140	NS	NS	NS
Effluent	2/8/2013	876	NS	NS	NS
Influent	8/29/2013	5,810	NS	NS	NS
Effluent	8/29/2013	1,190	NS	NS	NS
Influent	3/3/2014	9,050	NS	NS	NS
Effluent	3/3/2014	901	NS	NS	NS
Influent	8/7/2014	8,190	NS	NS	NS
Effluent	8/7/2014	1,110	NS	NS	NS
Influent	3/11/2015	7,430	NS	NS	NS
Effluent	3/11/2015	900	NS	NS	NS
Influent	7/30/2015	10,300	NS	NS	NS
Effluent	7/30/2015	934	NS	NS	NS
Influent	2/3/2016	7,050	NS	NS	NS
Effluent	2/3/2016	1,310	NS	NS	NS
Influent	8/30/2016	7,580	NS	NS	NS
Effluent	8/30/2016	1,910	NS	NS	NS
Influent	3/7/2017	4,150	NS	NS	NS
Effluent	3/7/2017	727	NS	NS	NS
Influent	9/1/2017	6,980	NS	NS	NS
Effluent	9/1/2017	2,320	NS	NS	NS
Influent	2/6/2018	6,810	NS	NS	NS
Effluent	2/6/2018	1,160	NS	NS	NS

Summary of Effluent and Influent Analytical Data
Better Brite Waste Treatment Plant
De Pere, WI 54115

Sample ID	Date	Total Chromium (ug/L)	Total Zinc (ug/L)	Total Cyanide (mg/L)	Hexavalent Chromium (mg/L)
Influent	10/2/2018	4,670	NS	NS	NS
Effluent	10/2/2018	1,120	NS	NS	NS
Influent	3/14/2019	5,060	NS	NS	NS
Effluent	3/14/2019	369	NS	NS	NS
Influent	9/9/2019	2,220	NS	NS	NS
Effluent	9/9/2019	1,100	NS	NS	NS
Influent	2/27/2020	3,920	NS	NS	NS
Effluent	2/27/2020	1,000	NS	NS	NS
Influent	9/3/2020	5880	NS	NS	NS
Effluent	9/3/2020	1600	NS	NS	NS
Influent	3/15/2021	4620	NS	NS	NS
Effluent	3/15/2021	1680	NS	NS	NS
Influent	8/27/2021	2310	NS	NS	2.8
Effluent	8/27/2021	677	NS	NS	0.026
Influent	3/23/2022	3430	NS	NS	2.7
Effluent	3/23/2022	560	NS	NS	<0.0073
Influent	9/30/2022	2870	NS	NS	2.4
Effluent	9/30/2022	1190	NS	NS	<0.0073
Influent	3/29/2023	3730	NS	NS	3.6
Effluent	3/29/2023	450	NS	NS	<0.0073

Notes:

Prepared By: NMG1

NS = No Sample

Checked By: SVF

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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

October 17, 2022

Nick Glander
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40252420001	**INFLUENT_202209**	Water	09/30/22 10:35	10/03/22 08:42
40252420002	**EFFLUENT_202209**	Water	09/30/22 10:35	10/03/22 08:42

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SAMPLE ANALYTE COUNT

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40252420001	**INFLUENT_202209**	EPA 6010D	SIS	1
		SM 3500-Cr B	SRK	1
40252420002	**EFFLUENT_202209**	EPA 6010D	SIS	1
		SM 3500-Cr B	SRK	1

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
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(920)469-2436

PROJECT NARRATIVE

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 17, 2022

General Information:
2 samples were analyzed for EPA 6010D by Pace Analytical Services Green Bay. 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 3010A 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:

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Method: **SM 3500-Cr B**
Description: Chromium, Hexavalent
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 17, 2022

General Information:
2 samples were analyzed for SM 3500-Cr B by Pace Analytical Services Green Bay. 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.

H2: Extraction or preparation was conducted outside of the recognized method holding time.
- INFLUENT_202209 (Lab ID: 40252420001)

H3: Sample was received or analysis requested beyond the recognized method holding time.
- INFLUENT_202209 (Lab ID: 40252420001)

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.

QC Batch: 427972

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40251839001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- MS (Lab ID: 2464401)
  - Chromium, Hexavalent
- MSD (Lab ID: 2464402)
  - Chromium, Hexavalent

QC Batch: 428757

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40252962001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- MS (Lab ID: 2469524)
  - Chromium, Hexavalent
- MSD (Lab ID: 2469525)
  - Chromium, Hexavalent

Additional Comments:

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

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Sample: INFLUENT_202209 **Lab ID: 40252420001** Collected: 09/30/22 10:35 Received: 10/03/22 08:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	**2870**	ug/L	10.0	2.5	1	10/07/22 05:35	10/11/22 14:39	7440-47-3	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	**2.4**	mg/L	0.12	0.037	5		10/14/22 13:51		H2,H3

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Sample: EFFLUENT_202209 **Lab ID: 40252420002** Collected: 09/30/22 10:35 Received: 10/03/22 08:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	**1190**	ug/L	10.0	2.5	1	10/07/22 05:35	10/10/22 10:04	7440-47-3	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	**<0.0073**	mg/L	0.024	0.0073	1		10/06/22 13:58		

REPORT OF LABORATORY ANALYSIS

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

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

QC Batch: 427979
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40252420001, 40252420002

METHOD BLANK: 2464462 Matrix: Water
Associated Lab Samples: 40252420001, 40252420002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.5	10.0	10/10/22 09:32	

LABORATORY CONTROL SAMPLE: 2464463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	260	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2464464 2464465

Parameter	Units	40252392003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	56.9	250	250	319	333	105	110	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

QC Batch: 427972
QC Batch Method: SM 3500-Cr B
Analysis Method: SM 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40252420002

METHOD BLANK: 2464399 Matrix: Water
Associated Lab Samples: 40252420002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	10/06/22 13:55	

LABORATORY CONTROL SAMPLE: 2464400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.30	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2464401 2464402

Parameter	Units	40251839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.18	7.5	7.5	3.3	3.2	44	42	90-110	5	20	M0

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

QC Batch: 428757
QC Batch Method: SM 3500-Cr B
Analysis Method: SM 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40252420001

METHOD BLANK: 2469522 Matrix: Water
Associated Lab Samples: 40252420001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	10/14/22 13:46	

LABORATORY CONTROL SAMPLE: 2469523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.30	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2469524 2469525

Parameter	Units	40252962001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.0073	0.3	0.3	0.018J	0.012J	4	2	90-110		20	M0

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

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.

ANALYTE QUALIFIERS

H2	Extraction or preparation was conducted outside of the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22WO16 BETTER BRITE
Pace Project No.: 40252420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40252420001	**INFLUENT_202209**	EPA 3010A	427979	EPA 6010D	428208
40252420002	**EFFLUENT_202209**	EPA 3010A	427979	EPA 6010D	428208
40252420001	**INFLUENT_202209**	SM 3500-Cr B	428757		
40252420002	**EFFLUENT_202209**	SM 3500-Cr B	427972		

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

LID52420

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	FOTH
Branch/Location:	DE PERE
Project Contact:	NICK GLANDER
Phone:	920/362-8744
Project Number:	22W016
Project Name:	BETTER BRITE
Project State:	WISCONSIN
Sampled By (Print):	
Sampled By (Sign):	
PO #:	Regulatory Program:

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

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	Accounting@Foth.com
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: Total Chrome	Analyses Requested: Hex Chrome	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter					
001	Influent_202209	9/30/22	1035	GW	N	D	X	X			
002	Effluent_202209	9/30/22	1035	GW	N	A	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Dale Chevrenka Foth	10/3/22 0842	[signature]	10/3/22 0842
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
LID52420

Receipt Temp = 4 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

Client Name: Foth Project # L1052120

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: MH Date/ Time:

Lab Lot# of pH paper: 10D3111 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001									1		1																				X		2.5 / 5
002									1		1																				X		2.5 / 5
003																																	2.5 / 5
004																																	2.5 / 5
005																																	2.5 / 5
006																																	2.5 / 5
007																																	2.5 / 5
008																																	2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012					mH 10/31/22																												2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40252420

40252420

Client Name: Foth

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other:

Tracking #:

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used SR - 120 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 4 /Corr: 4

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 10/3/22 /Initials: mlt

Labeled By Initials: TP

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

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

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

April 13, 2023

Nick Glander
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@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: 22W016 BETTER BRITE
Pace Project No.: 40260064

Pace Analytical Services Green Bay
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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40260064001	**EFFLUENT_202303**	Water	03/29/23 19:25	03/30/23 16:47
40260064002	**INFLUENT_202303**	Water	03/29/23 19:15	03/30/23 16:47

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SAMPLE ANALYTE COUNT

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40260064001	**EFFLUENT_202303**	EPA 6010D	SIS	1
		SM 3500-Cr B	HNT	1
40260064002	**INFLUENT_202303**	EPA 6010D	SIS	1
		SM 3500-Cr B	HNT	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: April 13, 2023

General Information:
2 samples were analyzed for EPA 6010D by Pace Analytical Services Green Bay. 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 3010A 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:

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(920)469-2436

PROJECT NARRATIVE

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Method: **SM 3500-Cr B**
Description: Chromium, Hexavalent
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: April 13, 2023

General Information:
2 samples were analyzed for SM 3500-Cr B by Pace Analytical Services Green Bay. 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.

QC Batch: 442280

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40260074002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2539243)
  - Chromium, Hexavalent
- MSD (Lab ID: 2539244)
  - Chromium, Hexavalent

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Sample: EFFLUENT_202303 **Lab ID: 40260064001** Collected: 03/29/23 19:25 Received: 03/30/23 16:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	**453**	ug/L	10.0	2.5	1	04/03/23 06:01	04/03/23 16:33	7440-47-3	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	**<0.0073**	mg/L	0.024	0.0073	1		04/13/23 11:45		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Sample: INFLUENT_202303 **Lab ID: 40260064002** Collected: 03/29/23 19:15 Received: 03/30/23 16:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Chromium	**3730**	ug/L	10.0	2.5	1	04/03/23 06:01	04/03/23 16:41	7440-47-3	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B Pace Analytical Services - Green Bay								
Chromium, Hexavalent	**3.6**	mg/L	0.61	0.18	25		04/13/23 11:46		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

QC Batch: 441345
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260064001, 40260064002

METHOD BLANK: 2534519 Matrix: Water
Associated Lab Samples: 40260064001, 40260064002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.5	10.0	04/03/23 16:29	

LABORATORY CONTROL SAMPLE: 2534520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	251	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2534521 2534522

Parameter	Units	40260064001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	453	250	250	721	719	107	107	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

QC Batch: 442280
QC Batch Method: SM 3500-Cr B
Analysis Method: SM 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260064001, 40260064002

METHOD BLANK: 2539241 Matrix: Water
Associated Lab Samples: 40260064001, 40260064002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	04/13/23 11:44	

LABORATORY CONTROL SAMPLE: 2539242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.29	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2539243 2539244

Parameter	Units	40260074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.024	0.3	0.3	0.21	0.21	65	64	90-110	0	20	M0

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

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.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22W016 BETTER BRITE
Pace Project No.: 40260064

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40260064001	**EFFLUENT_202303**	EPA 3010A	441345	EPA 6010D	441433
40260064002	**INFLUENT_202303**	EPA 3010A	441345	EPA 6010D	441433
40260064001	**EFFLUENT_202303**	SM 3500-Cr B	442280		
40260064002	**INFLUENT_202303**	SM 3500-Cr B	442280		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40260064

ALL SHADED AREAS are for LAB USE ONLY

Company: FOTH	Billing Information:
Address: DE PERE	
Report To: Nick Glander	Email To: Invoices@Foth.com
Copy To:	Site Collection Info/Address: Better Brite / 315 S. 6th St
Customer Project Name/Number: 22W016 / Better Brite	State: WI County/City: Brown/De Pere Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 920/362-8744 Email: Nick.Glander@Foth	Site/Facility ID #: Better Brite
Collected By (print): [redacted]	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [X] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [X] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Preservative Type ** 1	2	Analyses: Total Chrome	Hex Chrome	Lab Profile/Line:
Effluent-202303	GW	Grab	3/29/23	1925				2			X	X	001
Influent-202303	GW	Grab	↓	~~1930~~ 1915				2			X	X	002

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY: Lab Sample # / Comments:

03/30/2023

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: NONE

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): (Y) N N/A

Lab Tracking #: 2697955

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: (Y) N NA

Therm ID#: 128

Cooler 1 Temp Upon Receipt: 0.5 oC

Cooler 1 Therm Corr. Factor: .0 oC

Cooler 1 Corrected Temp: 0.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]/Foth	3/30/23 @1647	Matt VanLoombeek/Pace	03/30/2023 16:47
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

03/30/2023

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES NO

03/30/2023

Page: 1 of: 1

Sample Preservation Receipt Form

Client Name: Foth Project # 40260064

All containers needing preservation have been checked and noted below. ☑Yes ☐No ☐N/A Lab Lot# of pH paper. HC485 94 Lab Std #ID of preservation (if pH adjusted) Initial when completed MJB Date/ Time. 03/30/2023

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																X		2.5 / 5
002																																X		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
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015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																														✓				2.5 / 5

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40260064

40260064

Client Name: Foth

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other: _____

Tracking #: _____

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used SR - 128 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr 0.5

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 03/30/2023 Initials: MVS

Labeled By Initials: RA

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4. Someone obliterated the samplers name. MVS 03/30/2023
Samples Arrived within Hold Time	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. Times between the sample points 001 and 002 are flipped. MVS 03/30/2023 001 on COC 19:25 and 002 is 19:15 sample 001 19:15 and 002 as 19:25
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

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