## Lauridsen, Keld B - DNR

From:	Glander, Nick <nick.glander@foth.com></nick.glander@foth.com>
Sent:	Wednesday, April 28, 2021 7:55 AM
То:	Lauridsen, Keld B - DNR
Cc:	Saliares, Gwen N - DNR; Kozicki, Sharon V
Subject:	Better Brite WTP - 2020-21 End of Contract Year Documentation
Attachments:	Better Brite 2020-21 Summary Packet.pdf; March 2021 Better Brite Analytical Report.pdf;
	Sept 2020 Better Brite Analytical Report.pdf

Keld / Gwen;

In total, Foth processed 32 batches in the contract year - April 2020 through March 2021. 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
- Drum Disposal Table
- Analytical Results Summary Table

Also attached are both the September and March Pace Laboratory Analytical Reports.

Again, it has been a pleasure working on this project with you Keld. Per our last conversation, I anticipate being at Better Brite May 14<sup>th</sup>, 21<sup>st</sup>, or any day the week of the 24<sup>th</sup> to meet with Gwen and you. Let me know what date works and I will plan accordingly.

Feel free to contact me with any questions.

Thank you;

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

Go Green, keep it on the screen. Please do not print this email unless necessary.

From: Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Sent: Thursday, April 22, 2021 11:08 AM
To: Kurowski, Lori G <Lori.Kurowski@Foth.com>
Cc: Glander, Nick <Nick.Glander@foth.com>; Saliares, Gwen N - DNR <gwen.saliares@wisconsin.gov>
Subject: RE: Final Invoice for PO 37000-0000013845

Lori,

Thanks for the final Better Brite invoice for contract year 2020/21. I will route for payment.

I just talked to Nick earlier this morning and made him aware that I will no longer be the DNR PM for the Better Brite site. This will be my last invoice before Gwen Saliares (copied on this email) will take over as the new DNR PM. I will still work in the DNR R&R Program so Gwen and I will be able to work together until she is up to speed.

It has been a pleasure working with both you and Nick.

Thanks,

-Keld

We are committed to service excellence. Visit our survey at <u>http://dnr.wi.gov/customersurvey</u> to evaluate how I did.

Keld B. Lauridsen Phone: (920) 510 8294 Keld.Lauridsen@wisconsin.gov

From: Kurowski, Lori G <<u>Lori.Kurowski@Foth.com</u>> Sent: Tuesday, April 20, 2021 10:42 AM To: Lauridsen, Keld B - DNR <<u>Keld.Lauridsen@wisconsin.gov</u>> Cc: Glander, Nick <<u>Nick.Glander@foth.com</u>> Subject: Final Invoice for PO 37000-0000013845

Hi Keld – Attached is the final invoice for Better Brite.

If you have any questions, please let me know.

Lori

Lori Kurowski Accounting Analyst



Foth Infrastructure & Environment, LLC 2121 Innovation Court, Suite 100 P.O. Box 5095 De Pere, WI 54115 Phone: (920) 496-6858 / Fax: (920) 497-8516 http://www.foth.com



## Better Brite 2020/2021 Treatment

Month	Gallons Treated	Batches Ran
April	49500	9
May	33000	6
June	22000	4
July	11000	2
Aug	5500	1
Sept	5500	1
Oct	11000	2
Nov	11000	2
Dec	0	0
Jan	11000	2
Feb	11000	2
Mar	5500	1
	TOTAL	32

Drum #	Filled Date	Disposal Date
1		
2		

## **Total Chrome Analytical Samples Collection Dates**

Sample Rd	Date Collected	Date Analyzed
1	9/3/2020	9/10/2020
2	3/15/2021	3/18/2021



<b>☆F</b> c	oth	Better-Brite WTP Processing Log 2020/2021 20W016									
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
04/01/20	AXP5	1	5500	3.04	301	8.7	30	0.00	30	350	
04/02/20	AXP5	2	5500	3.16	300	8.68	30	0.00	30	350	
04/03/20	AXP5	3	5500	3.24	301	8.61	30	0.00	30	350	cleaned pressed
04/13/20	NMG1	4	5500	3.09	304	8.53	30	0.00	30	350	filter press fixed
04/16/20	NMG1	5	5500	3.25	300	8.68	30	0.01	30	350	
04/23/20	NMG1	6	5500	3.20	295	8.51	30	0.00	30	350	
04/28/20	NMG1	7	5500	3.04	301	8.62	30	0.01	30	350	
04/29/20	AXP5	8	5500	3.10	300	8.57	30	0.00	30	350	
04/30/20	AXP5	9	5500	3.06	302	8.70	30	0.00	35	350	fixed valve
05/08/20	NMG1	10	5500	3.21	300	8.70	30	0.00	39	350	
05/11/20	AXP5	11	5500	3.10	301	8.63	30	0.00	40	350	cleaned press
05/12/20	AXP5	12	5500	3.19	300	8.70	30	0.00	30	350	
05/13/20	AXP5	13	5500	3.10	302	8.69	30	0.01	35	350	
05/21/20	NMG1	14	5500	3.00	306	8.59	30	0.00	49	350	
05/29/20	AXP5	15	5500	3.00	304	8.70	30	0.00	50	350	
06/01/20	AXP5	16	5500	3.04	301	8.68	30	0.00	52	350	
06/02/20	AXP5	17	5500	3.10	299	8.59	30	0.00	58	350	
06/04/20	AXP5	18	5500	3.09	305	8.69	30	0.00	61	350	
06/11/20	NMG1	19	5500	3.15	303	8.60	30	0.01	35	350	
07/09/20	NMG1	20	5500	3.26	300	8.51	30	0.00	40	350	cleaned press
07/17/20	NMG1	21	5500	3.30	301	8.61	30	0.00	45	350	Chemical Delivered / Probes calibrated
08/12/20	NMG1	22	5500	3.18	298	8.68	30	0.01	45	350	
09/03/20	NMG1	23	5500	3.17	300	8.60	30	0.00	45	350	T. Chrome Collected
10/06/20	NMG1	24	5500	3.30	304	8.70	30	0.00	50	350	
10/30/20	NMG1	25	5500	3.15	301	8.62	30	0.00	50	350	
11/06/20	NMG1	26	5500	3.05	302	8.53	30	0.02	50	350	
11/13/20	NMG1	27	5500	3.00	292	8.56	30	0.00	50	350	Probes Calibrated / Cleaned Press
01/08/21	NMG1	28	5500	3.01	300	8.70	30	0.00	40	350	
01/28/21	NMG1	29	5500	3.23	300	8.63	30	0.01	45	350	
02/11/21	NMG1	30	5500	3.33	300	8.55	30	0.01	50	350	
02/26/21	NMG1	31	5500	3.00	302	8.51	30	0.00	50	350	
03/15/21	NMG1	32	5500	3.40	304	8.60	30	0.01	40	350	Cleaned Press / Calibrated Sensor / T. Chrome Collected



# Foth Better-Brite Sludge Generation Data Calendar Year 2020

MONTH	Drum(s) Filled	Date Filled	Date Transported	Small Q + 180 days
January	0			
February	0		$\vdash$	
March	0			
Maron				
April	0			
May	0			
June	0			
July	0			
Ully				
August	0			
September	0			
October	0			
November	0			
December		<b>├</b> ───┤	<b>├</b> ───┤	
Decemper	0			L
TOTAL	0			

Notes -

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

Sample ID	Date	Total Chromium	Total Zinc	Total Cyanide	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	06/23/2011	4 520	34 0 I	0.34	4 4
Fffluent	06/23/2011	231	181	0.37	<0.0039
Influent	06/27/2011	4 810	21.0 J	0.32	4 A
Ffluent	06/27/2011	974	21.2 J 2 5 I	0.21	<0.0039
Influent	06/28/2011	4 460	2.5 J	0.21	4 1
Effluent	06/28/2011	1,400	<1.6	0.25	<0.0030
Influent	06/20/2011	4 230	<1.0 10 7 I	0.23	<0.0039
Effluent	06/29/2011	908	<16	0.23	<0.030
Influent	12/22/2011	6 850	<1.0 NS	0.23 NS	~0.039 NS
Effluent	12/23/2011	765	NS	NS	INS NS
Linuent	12/23/2011	703	INS NC	INS NC	INS
	08/03/2012	7,220	NS NC	INS NG	INS NG
Effluent	08/03/2012	513	NS	NS	NS NG
Influent	02/08/2013	7,140	NS	NS	NS
Effluent	02/08/2013	876	NS	NS	NS
Influent	08/29/2013	5,810	NS	NS	NS
Effluent	08/29/2013	1,190	NS	NS	NS
Influent	03/03/2014	9,050	NS	NS	NS
Effluent	03/03/2014	901	NS	NS	NS
Influent	08/07/2014	8,190	NS	NS	NS
Effluent	08/07/2014	1,110	NS	NS	NS
Influent	03/11/2015	7,430	NS	NS	NS
Effluent	03/11/2015	900	NS	NS	NS
Influent	07/30/2015	10,300	NS	NS	NS
Effluent	07/30/2015	934	NS	NS	NS
Influent	02/03/2016	7,050	NS	NS	NS
Effluent	02/03/2016	1,310	NS	NS	NS
Influent	08/30/2016	7,580	NS	NS	NS
Effluent	08/30/2016	1,910	NS	NS	NS
Influent	03/07/2017	4,150	NS	NS	NS
Effluent	03/07/2017	727	NS	NS	NS
Influent	09/01/2017	6,980	NS	NS	NS
Effluent	09/01/2017	2,320	NS	NS	NS
Influent	02/06/2018	6,810	NS	NS	NS
Effluent	02/06/2018	1,160	NS	NS	NS
Influent	10/02/2018	4,670	NS	NS	NS
Effluent	10/02/2018	1,120	NS	NS	NS
Influent	03/14/2019	5,060	NS	NS	NS
Effluent	03/14/2019	369	NS	NS	NS
Influent	09/09/2019	2,220	NS	NS	NS
Effluent	09/09/2019	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	43.1	NS	NS
Effluent	9/3/2020	1600	156	NS	NS
Influent	3/15/2021	4620	NS	NS	NS
Effluent	3/15/2021	1680	NS	NS	NS No

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

NS = No Sample

Prepared By: NMG1 Checked By: SVF



September 15, 2020

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

RE: Project: 20W016 BETTER BRITE Pace Project No.: 40214037

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on September 03, 2020. 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 holtemeyor

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: 20W016 BETTER BRITE

Pace Project No.: 40214037

#### 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



## SAMPLE SUMMARY

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40214037001	INFLUENT_202009	Water	09/03/20 09:00	09/03/20 11:28
40214037002	EFFLUENT_202009	Water	09/03/20 11:00	09/03/20 11:28



## SAMPLE ANALYTE COUNT

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40214037001	INFLUENT_202009	EPA 6010	TXW	2	PASI-G
40214037002	EFFLUENT_202009	EPA 6010	TXW	2	PASI-G

PASI-G = Pace Analytical Services - Green Bay



## SUMMARY OF DETECTION

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

Lab Sample ID	Client Sample ID	Popult	Lipito	Poport Limit	Applyzod	Qualifiare
			Units		Analyzeu	Quaimers
40214037001	INFLUENT_202009					
EPA 6010	Chromium	5880	ug/L	10.0	09/10/20 19:22	
EPA 6010	Zinc	43.1	ug/L	40.0	09/10/20 19:22	
40214037002	EFFLUENT_202009					
EPA 6010	Chromium	1600	ug/L	10.0	09/10/20 19:24	
EPA 6010	Zinc	156	ug/L	40.0	09/10/20 19:24	



#### **PROJECT NARRATIVE**

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

#### Method: EPA 6010

Description:6010 MET ICPClient:FOTH INFRASTRUCTURE & ENVIRONMENTDate:September 15, 2020

#### **General Information:**

2 samples were analyzed for EPA 6010 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 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:

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



## ANALYTICAL RESULTS

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

Sample: INFLUENT_202009	Lab ID:	40214037001	Collecte	d: 09/03/20	0 09:00	Received: 09/	03/20 11:28 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Pace Anal	Method: EPA 6 ytical Services	010 Prepa - Green Ba	ration Meth y	od: EPA	3010			
Chromium Zinc	5880 43.1	ug/L ug/L	10.0 40.0	2.5 11.6	1 1	09/04/20 07:02 09/04/20 07:02	09/10/20 19:22 09/10/20 19:22	7440-47-3 7440-66-6	



## ANALYTICAL RESULTS

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

Sample: EFFLUENT_202009	Lab ID:	40214037002	Collected	1: 09/03/20	) 11:00	Received: 09/	03/20 11:28 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Pace Anal	Method: EPA 60 ytical Services ·	010 Prepar - Green Bay	ation Metho	od: EPA	3010			
Chromium Zinc	1600 156	ug/L ug/L	10.0 40.0	2.5 11.6	1 1	09/04/20 07:02 09/04/20 07:02	09/10/20 19:24 09/10/20 19:24	7440-47-3 7440-66-6	



## **QUALITY CONTROL DATA**

Project:	20W016 BE	TTER BI	RITE										
Pace Project No.:	40214037												
QC Batch:	364702			Anal	ysis Metho	od:	EPA 6010						
QC Batch Method:	EPA 3010			Anal	ysis Desc	ription:	6010 MET						
				Labo	oratory:		Pace Analy	ical Servic	es - Green	Bay			
Associated Lab Sa	mples: 402	1403700	1, 4021403700	2									
METHOD BLANK:	2107496				Matrix: V	Water							
Associated Lab Sa	mples: 402	1403700	1, 4021403700	2									
				Bla	nk	Reporting							
Para	meter		Units	Res	ult	Limit	Anal	yzed	Qualifier	s			
Chromium			ug/L		<2.5	10.	0 09/10/2	0 18:12					
Zinc			ug/L		<11.6	40.	0 09/10/2	0 18:12					
LABORATORY CO	NTROL SAMF	PLE: 2	107497 Units	Spike Conc.	L Re	CS esult	LCS % Rec	% R Lim	ec its	Qualifiers			
Chromium			ug/L	50	00	486	9	7	80-120				
Zinc			ug/L	50	00	479	9	6	80-120				
MATRIX SPIKE & I	MATRIX SPIKI	E DUPLI	CATE: 21074	198 MS	MSD	2107499	)						
			40213988001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium		ug/L	<2.5	500	500	496	503	99	101	75-125	2	20	
Zinc		ug/L	<11.6	500	500	) 488	488	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.



#### QUALIFIERS

Project: 20W016 BETTER BRITE

Pace Project No.: 40214037

#### 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.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:20W016 BETTER BRITEPace Project No.:40214037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40214037001	INFLUENT_202009	EPA 3010	364702	EPA 6010	364876
40214037002	EFFLUENT_202009	EPA 3010	364702	EPA 6010	364876

(Pi	ease Print Clearly)		-	•			UPPER MIDW	EST REGION	Page 1 of
Company Name:	Forn			1			MN: 612-607-	1700 <b>WI:</b> 920-469-2436	10711000
3ranch/Location:	GREEN BAY		Pac	<i>e Ana</i>	lytical				40214(25/
Project Contact:	Nick GLANDER			www.pa	celabs.com			Quote #:	
hone:	920 /362-8744	· ·	СН	AIN	OF (	CUST	ODY	Mail To Contact:	Ro.
roject Number:	204006	AzNone	B-HCI	C+H2804	Preservation	Codes		Mail To Company:	aut.
roject Name:	Botter Rot.	H=Sodium E	Bisulfate So	lution	I=Sodium Thio	sulfate J=0	her G=NaOH	Mail To Address:	
roject State:	LIT .	FILTERED?	<b>Y</b> /1	$\mathbb{N}$					A H.C.
ampled By (Print):	Alick laborda	PRESERVATIO	IN Pic					Invoice To Contact:	
Impled By (Sign):	NºCa Grow	(CODE)*	Lette	-					<u> </u>
)#:	2000	egulatory						Invoice to Company:	<u> </u>
ata Baakaga On		Program:		N				Invoice To Address:	$\langle \rangle$
(billable)	On your sample	Air W = Water	- Ž	$ \mathcal{Q} $					
	(billable) C =	Charcoal GW = Ground Water Oil SW = Surface Water	r 800	. *				Invoice To Phone:	N
	your sample S	Soil WW = Waste Water Sludge WP = Wipe	Anal					CLIENT	LAB COMMENTS Profile #
ACE LAB #	CLIENT FIELD ID	COLLECTION MATE	w	11				COMMENTS	(Lab Use Only)
DOI INF	Tuent-202009	9/3/20 0900 GU	/	X					
NOVEFF	Trent-20209	9/3/201100 /11	1	8					
		17	1.1						
			207 197						
				2 2					
Rush Turnaroun	d Time Requested - Prelims	Relinquished By // /	- AND	-	Date/Time	<u> </u>	Receivert By:	Data///i==:	PACE Project No.
(Rush TAT sub	ject to approval/surcharge)	Make 1	YSL		9/2	20 112	8 Mailli	There 9-3-	20 1128 UN JILINZ
ransmit Prelim Rush	Neeueu: Results by (complete what you want	Relinquished By:			Date/fime:	1	Received By:	Date/Time:	
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ll #2:		Palinguished Dur			<u> </u>				Sample Receipt pH
		rainquisned By:			Date/Time:		Received By:	Date/Time:	Copler Custody Soci
Samples on	HOLD are subject to	Relinquished By:			Date/Time:		Received By:	Date/Time:	Present Not Present
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  | BP3S  | VG9A   
  | DG9T  | VG9U  | VG9H   | M69V   | VG9D  | JGFU  | JG9U  | WGFU   | WPFU   | SP5T   
  | ZPLC  | GN   | VOA Vials  | H2SO4 pH   | NaOH+Zn  | NaOH pH  | HNO3 pH :   
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F-GB-C-046-Rev.03 (11Feb2020) Sample Preservation Receipt Form

Place Applicate	Sample Cond	tion Upon Receipt (SCUR)	Document I	Revised: 26Mar2020
Pace Analytical	D	ocument No.:		Author:
1241 Bellevue Street, Green Bay, WI 54	302 ENV-FRN	1-GBAY-0014-Rev.00	Pace Gree	n Bay Quality Office
Sampl	e Condition U	oon Receipt Form (S	SCUR)	
	· /	Project #	A 11	
Client Name:	<u>H</u> h	W	J#:40	214037
Courier: 🔽 CS Logistics 🗖 Fed Ex 🔲 Spe	edee 🔽 UPS Г	Waltco		
Client Pace Other:		402	<b>     </b>           14037	
Fracking #:				
Custody Seal on Cooler/Box Present: 🔽 ye	s 🍞 no Seals int	act: 🔽 yes 🦵 no		
Custody Seal on Samples Present: 🗍 yes	no Seals int	act: 🔽 yes 🔽 no		
Chermometer Used SR - 00		one Cother		
Cooler Temperature Uncorr: 3 /Corr		Wet Blue Dry None	- Samples on ic	e, cooling process has begun Person examining contents:
Temp Blank Present: Ves K no	Biologic	al Tissue is Frozen: 🔲 ve	s⊏no	9-3-20 Sku
Femp should be above freezing to 6°C.				
Biota Samples may be received at $\leq 0^{\circ}$ C if shipped or	n Dry Ice.		<u> </u>	abeled By Initials: <u>SRK</u>
Chain of Custody Present:		N/A 1.		
Chain of Custody Filled Out:		N/A 2.		an Alexandra Maria - Alexandra
		N/A 3.		
		N/A 4.		la ser la companya de la companya d La companya de la comp La companya de la comp
		5.		
- VOA Samples frozen upon receipt		Date/Time:		
		6.		
		7.		
		8.		
	SD: LIYes LANo LI	N/A		
Sorrect Containers Used:	Ves ∐No	9.		
-Pace Containers Used:		N/A		
	∐Yes ∐No <b>[</b> ]	N/A	en de la companya de La companya de la comp Presenta de la companya de la company	an dhan an Arland An Arland Arland Arland Arland
	⊻Yes ⊡No	10.		
riftered volume received for Dissolved tests		₩A 11.		
-ample Labels match COC: -Includes date/time/ID/Analysis Matrix:		V/A 12.		
Frip Blank Present:	□Yes □No 💋	N/A 13.		
Frip Blank Custody Seals Present		ressention Generations - Sector		
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:		If checke	ed, see attached	form for additional comments
Comments/ Resolution:	Ua			

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

Page\_Page 14 of 24



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

March 25, 2021

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

RE: Project: 20W016 BETTER BRITE Pace Project No.: 40223403

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2021. 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 holtemeyor

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: 20W016 BETTER BRITE

Pace Project No.: 40223403

#### 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



## SAMPLE SUMMARY

Project: 20W016 BETTER BRITE

Pace Project No.: 40223403

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40223403001	INFLUENT_202103	Water	03/15/21 11:40	03/15/21 15:38
40223403002	EFFLUENT_202103	Water	03/15/21 15:00	03/15/21 15:38



## SAMPLE ANALYTE COUNT

Project: 20W016 BETTER BRITE

Pace Project No.: 40223403

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40223403001	INFLUENT_202103	EPA 6010	TXW	1	PASI-G
40223403002	EFFLUENT_202103	EPA 6010	TXW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay



## SUMMARY OF DETECTION

Project: 20W016 BETTER BRITE

Pace Project No.: 40223403

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40223403001	INFLUENT_202103					
EPA 6010	Chromium	4620	ug/L	10.0	03/18/21 21:55	
EPA 6010	Chromium	1680	ug/L	10.0	03/18/21 21:57	



#### **PROJECT NARRATIVE**

Project: 20W016 BETTER BRITE

Pace Project No.: 40223403

#### Method: EPA 6010

Description:6010 MET ICPClient:FOTH INFRASTRUCTURE & ENVIRONMENTDate:March 25, 2021

#### **General Information:**

2 samples were analyzed for EPA 6010 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 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:

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



## ANALYTICAL RESULTS

Project: 20W016 BETTER BRITE

Pace Project No.: 40223403

Sample: INFLUENT_202103	Lab ID:	40223403001	Collecte	ed: 03/15/2	1 11:40	Received: 03/	15/21 15:38 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Pace Ana	Method: EPA 6 lytical Services	010 Prepa - Green Ba	aration Meth ay	nod: EPA	3010			
Chromium	4620	ug/L	10.0	2.5	1	03/17/21 11:51	03/18/21 21:55	7440-47-3	



## ANALYTICAL RESULTS

Project: 20W016 BETTER BRITE

Pace Project No.: 40223403

Sample: EFFLUENT_202103	Lab ID:	40223403002	Collecte	ed: 03/15/2	1 15:00	Received: 03/	15/21 15:38 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Pace Ana	Method: EPA 6 lytical Services	010 Prepa - Green Ba	aration Meth ay	od: EPA	3010			
Chromium	1680	ug/L	10.0	2.5	1	03/17/21 11:51	03/18/21 21:57	7440-47-3	



## **QUALITY CONTROL DATA**

Project:	20W016 BETTER	BRITE										
Pace Project No.:	40223403											
QC Batch:	379988		Analy	sis Metho	d:	EPA 6010						
QC Batch Method:	EPA 3010		Analy	/sis Descri	ption:	6010 MET						
			Labo	ratory:		Pace Analyt	ical Servic	es - Green	Bay			
Associated Lab Sam	ples: 40223403	001, 4022340300	)2									
METHOD BLANK:	2191216			Matrix: W	ater							
Associated Lab Sam	ples: 40223403	001, 4022340300	)2									
			Blar	nk	Reporting							
Param	eter	Units	Res	ult	Limit	Analy	/zed	Qualifier	s			
Chromium		ug/L		<2.5	10	.0 03/18/2	1 21:17					
LABORATORY CON	TROL SAMPLE:	2191217									-	
			Spike	LC	s	LCS	% R	ec				
Param	eter	Units	Conc.	Res	sult	% Rec	Limi	ts (	Qualifiers			
Chromium		ug/L	50	00	512	102	2 8	30-120		_		
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 2191	218		219121	9						
			MS	MSD								
		40223487025	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium	ug/L	7.9J	500	500	509	515	100	101	75-125	1	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: 20W016 BETTER BRITE

Pace Project No.: 40223403

#### 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.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:20W016 BETTER BRITEPace Project No.:40223403

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40223403001	INFLUENT_202103	EPA 3010	379988	EPA 6010	380099
40223403002	EFFLUENT_202103	EPA 3010	379988	EPA 6010	380099

	(Please Print Clearly)		$\sim$		UPPER MIDWEST R	EGION	Page 1 of 🕇
Company Nan	ne: Fort4	<b>&gt;</b>			MN: 612-607-1700	WI: 920-469-2436	
Branch/Locati	ion: 1212EAL Ral		Pace Analy	/tical <sup>®</sup>		· · · · · · · · · · · · · · · · · · ·	40223403
Project Conta	ct: Nich BLANDE	R /	www.pace	Haus.com		Quote #:	
Phone:	920/362-8744	· · ·	CHAIN (	OF CUSTO	DY	Mail To Contact:	1ha
Project Numbe	er: 201016	A=None B	+Pr HCL C=H2SO4 D	reservation Codes =HNO3 E=DI Water F=Metha	Mail To Company:		
Project Name:	Botter Brite	H=Sodium Bis	ulfate Solution I=	Sodium Thiosulfate J=Other		Mail To Address:	male n-
Project State:	WI	FILTERED? (YES/NO)	YIN N				E ST
Sampled By (F	Print): Nick Glarder	PRESERVATION (CODE)*	Pick Letter			Invoice To Contact:	Agn , Co
Sampled By (S	Sign):					Invoice To Company:	a string
PO #:	Rep	gulatory rogram:				Invoice To Address:	Refor
Data Packag	ge Options <u>MS/MSD</u>	Matrix Codes					<sup>14</sup> .Ca
	A Level III (billable) C = 0	Biota DW = Water Biota DW = Drinking Water Charcoal GW = Ground Water Oil SW = Surface Water	Vses F			Invoice To Phone:	m
	Level IV NOT needed on S = S your sample SI =	Soil WW = Waste Water Sludge WP = Wipe	Anal 1			CLIENT	LAB COMMENTS Profile #
PACE LAB #	CLIENT FIELD ID	COLLECTION MATRD	x R			COMMENTS	(Lab Use Only)
001	Influent_202103	3/15/20 1140 GW	' <b>  X</b>				:
OOV	EFF/unt=202103	1 1500 GW	X				
	•						
	· · · · · · · · · · · · · · · · · · ·		1933.X				
	, , , , , , , , , , , , , , , , , , ,						
	· · · · · · · · · · · · · · · · · · ·						
Rush Tur (Rush T	rnaround Time Requested - Prelims	Relinquished By:	U (Forni)	Date/Time: 3/15/2021/528	Received By:	Date/Time:	21538 PACE Project No.
	Date Needed:	Relinguished By:		Date/Time:	Received By:	Gull Date/Time:	40223405 3/10/2
Transmit Prel	im Rush Results by (complete what you wan	t):					Receipt Temp = RO / °C K
Email #1:		Relinquished By:		Date/Time:	Received By:	Date/Time:	Sample Receipt pH
Telephone:		Relinguished By:		Date/Time:	Received By:	Date/Time:	Oly / Adjusted
Fax:	· · · · · · · · · · · · · · · · · · ·						Cooler Custody Seal
Sa	amples on HOLD are subject to	Relinquished By:	<u> </u>	Date/Time:	Received By:	Date/Time:	Present / Not Present
spec	cial pricing and release of liability						Intact / NoPlayact2 of 1

Clie	ent l	Nar	ne <sup>.</sup>		F	$\overline{0}$	, }	6	, ]			S	am	ple	<b>Pr</b> o	ese biec	rva <sup>.</sup> t #	tior	n Re	ece U i	ipt いン	For 2	m 34	03							Pace Ar 1241 B	nalytical ellevue Green E	Services, LLC Street, Suite 9 ay, WI 54302
one	All c	contair	ners n	eeding	g pres	ervatio	on ha	ve bee	en che	ecked Lab	and n	oted b	below: baper;	AYes	□No X	, □N/A D/	Lab	Std #	#ID of	presei	vatior	n (if p⊦	l adju	sted):					Initial compl	when ete <del>d:</del>	ŁU	Date/ Time:	
[			Glass				1			[	Plast	ic				Via	Vials				Ja	ars	rs		General		>6mm) *	\$2	kct pH ≥9	12	2	usted	Volume
		-		(0)	<b>_</b>		<i>(</i> )	_			~~~~~	~ ~					Т	Z	Δ		<b>-</b>	D.	<u>ה</u>	· <b>F</b>	U		/ials (	4 pH ⇒	4 nZ+	≥Hq	Ч	er adj	(mL)
Pace Lab #	Coll	3G11	AG1F	<b>AG4</b>	AG4I	AG5I	4G29	3G3I	3P1(	3P3(	3P3E	3P3	BP3(	VG9/	.690	VG91	VG9	VG9	VG9	JGFI	JG91	WGF	WPF	SP5	ZPL	S N	VOA V	H2SO	NaOH	NaOH	EONH	pH aft	
001	$\vdash$						$\overline{}$					T																			Ń		2.5/5/10
002												1																			X		2.5/5/10
003	$\overline{\nabla}$																																2.5 / 5 / 10
004																																	2.5/5/10
005	Ī										·	T																					2.5 / 5 / 10
006				1																													2.5/5/10
007				1	1		Τ																										2.5/5/10
008											1																						2.5/5/10
009													1																			<b> </b>	2.5/5/10
010														/																			2.5/5/10
011																	-															1	2.5/5/10
012																						2027					_						2.5/5/10
013							·				<u> </u>			<u> </u>													-						2.5/5/10
014																						$\sim$										<u> </u>	2.5/5/10
015			· .									1									<u> </u>			$\geq$									2.5/5/10
016																										$\succ$							2.5/5/10
017								<u> </u>																				$\vdash$					2.575710
018							<u> </u>			_			<u> </u>																	3			2.575710
019								ŀ	ŀ																					17	<b>F</b>	ke.	25/5/10
020																																<u> </u>	2.07 07 10
Exce	eption	s to p	reserv	ation	check	: VOA	A, Coli	iform,	TOC,	, тох,	тон,	0&G	, WI C	RO, F	heno	lics, O	ther:			Hea	dspac	e in V	OA Vi	als (>	6mm)	: □Yes	s ⊡No	<b>N</b> IA	∖*lf ye	s loo	k in hea	dspace	column
AG1	J 1 lit	er an	nber	glass			,	В	P1U	1 lit	er pla	stic u	inpres	3		V	G9A	40 r	nL cle	ear as	corb	С		J	GFU	4 oz	amb	oer jai	r unpr	es			
BG1	J 1 lit	ter cle	ear gl	ass				В	P3U	250	mL p	olastic	c unpi	es		D	G9T	40 r	nL ar	nber I	Na Th	nio		J	G9U	9 oz	: amt	ber jai					
AG1I	l 1 lit	ter an	nber	glass	HCL			BI	P3B	250	mL p	olastic	NaC	H		VG9U 40 mL clear vial unpres WGFU 4							4 02	nz clear jar unpres									
AG4	5 125	5 mL :	ambe	er glas	ss H2	SO4		B	P3N D2C	250	mLp	lastic	CHNC	)3 :04			39H 39M	40 r 40 r	n∟ cli nL cli	ear vi	ear vial HCL			s	P5T	120	mL i	olastic	c Na T	hiosu	Ilfate		4
AG4		) mL	ambe	ar glas er glas	ss uni ss uni	pres			- 33	250	ΠL	nasul	1120				G9D	40 r	nL cl	ear vi	al DI			z	PLC	zipl	oc ba	g				÷.,	
AG2	s 500	) mL	ambe	engla	ss H2	S04																			GN								
BG3	<b>J</b> 250	) mL	clear	glass	s unpr	res																										Dag	al of Z

F-GB-C-046-Rev.03 (11Feb2020) Sample Preservation Receipt Form

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	Do Sampla Condi	cument Name: tion Upon Paceint (SCUP)	Document Revised: 26Mar2020	
Pace Analytical	D	ocument No.:	Author:	
1241 Bellevue Street, Green Bay, WI 54	BO2 ENV-FRN	I-GBAY-0014-Rev.00	Pace Green Bay Quality Office	
Sample	e Condition Up	oon Receipt Form (S	CUR)	
	•	Project #		
Client Name: Foth			0#:40223403	
ourier: CS Logistics Fed Ex Spent Client Pace Other:	edee 🗖 UPS 🗖	Waltco		
racking #:		40	223403	
ustody Seal on Cooler/Box Present: 🔽 yes	s Kno Seals inte	act: 🗖 yes 🗖 no		
ustody Seal on Samples Present: 🚺 yes	🕺 no 🛛 Seals inta	act: 🔽 yes 🔽 no		
acking Material: 🔲 Bubble Wrap 🥅 Bu	ubble Bags 🕅 N	one 🔽 Other		
hermometer Used <u>SR - 109</u>	Type of Ice: (W	e Blue Dry None 🗲	-Samples on ice, cooling process has begu	nts:
ooler Temperature Uncorr: <u>3</u> ICorr	<u> </u>	al Tiagua in Frazont To vo	3-15-21	FU
emp Blank Present: 🔽 yes 🌾 no	Biologic	al lissue is riozen: 1 ye	Date: //Initials.	
emp should be above freezing to 6°C. iota Samples may be received at ≤ 0°C if shipped or	n Dry Ice.		Labeled By Initials:	<u>:</u> U
hain of Custody Present:	Yes No	N/A 1.	· · · · · · · · · · · · · · · · · · ·	
hain of Custody Filled Out:	Yes No	N/A 2.		
hain of Custody Relinquished:	ZYes No	N/A 3.		
ampler Name & Signature on COC:	ŹYes □No □	N/A <b>4</b> .		
amples Arrived within Hold Time:	Yes 🗆 No	5.		
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:		
hort Hold Time Analysis (<72hr):	🗆 Yes 💋 No	6.		
ush Turn Around Time Requested:	🗆 Yes 💋 No	7.		-
Sufficient Volume:	"	8.		
For Analysis: 🖉 Yes 🗆 No 🛛 MS/M	SD: 🛛 Yes 🗖 No 🛛	N/A		
correct Containers Used:	ZYes No	9.		
-Pace Containers Used:	Yes 🗆 No 🗆	N/A		
-Pace IR Containers Used:	□Yes □No Ø	N/A		
Containers Intact:	Yes 🗆 No	10		
iltered volume received for Dissolved tests	🛛 Yes 🖾 No 📮	N/A 11.		
Sample Labels match COC:	Zyes Dyo D	N/A 12.		
-Includes date/time/ID/Analysis Matrix:				<u> </u>
rip Blank Present:	🗆 Yes 🗆 No 🎽	N/A 13.		
rip Blank Custody Seals Present		N/A		
Pace Trip Blank Lot # (if purchased):		المحطم كا	od see attached form for additional commer	nts 🔽
Night Notification/ Resolution:	_	IT CHECK		
Person Contected	D:	ale/ mine.		

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

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