

Lauridsen, Keld B - DNR

From: Dufek, Nic <Nic.Dufek@Foth.com>
Sent: Wednesday, April 10, 2013 11:16 AM
To: Lauridsen, Keld B - DNR
Cc: Meister, Ron
Subject: Better-Brite Annual Update & Totals
Attachments: Better Brite 2012 and 2013 total Rx.xls; 2-8-13 T. Chrome (Lab).pdf; 8-3-12 T. Chrome (Lab).pdf

Keld,

Here are the 2012-2013 batch totals, batches processed, drum count, and analytical results for all batches ran and samples collected in the last contract period. I attached the lab results for the samples collected, along with individual batch Rx numbers (on separate tab in the excel file).

Due to the higher volume of snow and rain this Winter/Spring so far, I have already processed above average batch #'s. The trench full alarm still hasn't gone off even yet. It is going to be a busy Spring at BB. If you have any questions regarding the data or anything else, please feel free to give me a call.

Thank You,

Nicholas E. Dufek

*Please note, my work cell # has changed to **920-370-1886**

Nicholas E. Dufek
Project Environmental Technician
Foth Infrastructure & Environment, LLC
2737 South Ridge Rd, Suite 600
PO Box 12326, Green Bay, WI 54307
Office: 920-496-6826 - Cell: 920-370-1886
(Fax) 920-497-8516
Email: Nic.Dufek@Foth.com

IMPORTANT NOTICE

This communication including any attachments, (E-mail) is confidential and may be proprietary, privileged or otherwise protected from disclosure. If you are not the intended recipient, please notify the sender, permanently delete this E-Mail from your system and destroy any copies. Any use of this E-Mail, including disclosure, distribution or replication, by someone other than its intended recipient is prohibited.

This E-Mail has the potential to have been altered or corrupted due to transmission or conversion. It may not be appropriate to rely upon this E-Mail in the same manner as hardcopy materials bearing the author's original signature or seal.

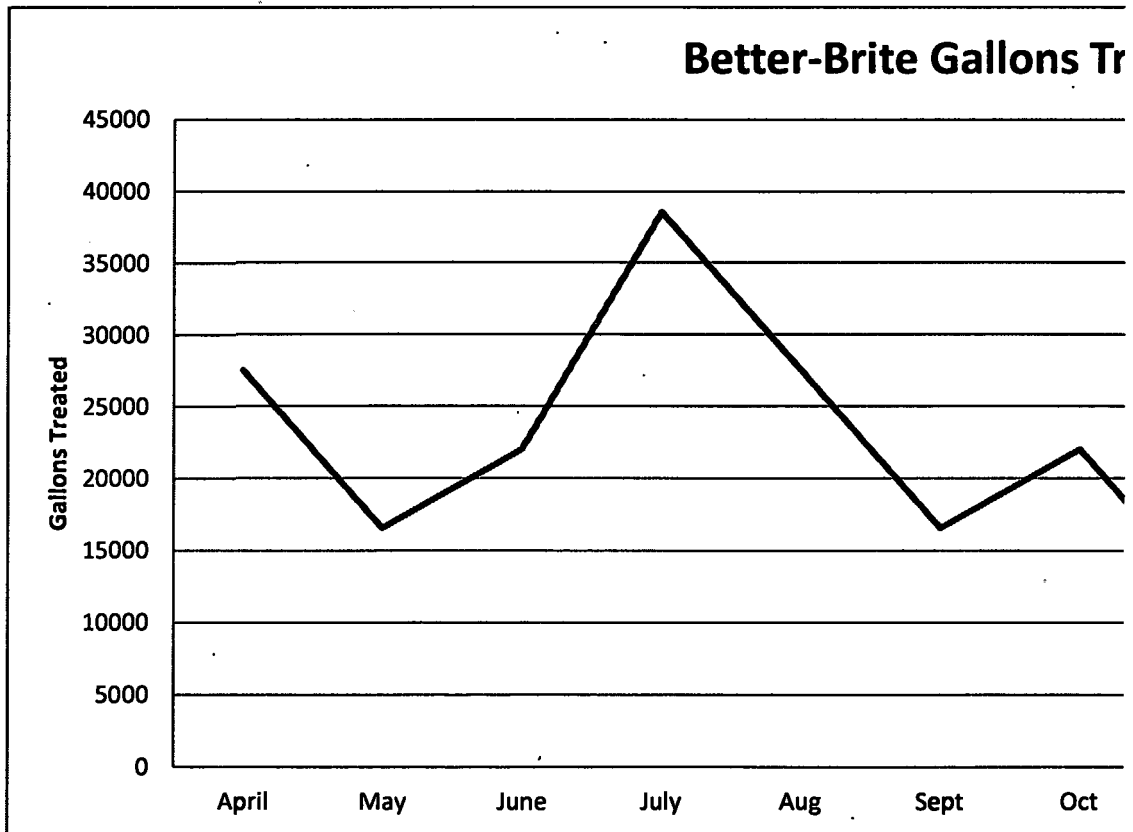
Better Brite 2012/2013 Treatment

Month	Gallons Treated	Batches Ran
April	27500	5
May	16500	3
June	22000	4
July	38500	7
Aug	27500	5
Sept	16500	3
Oct	22000	4
Nov	11000	2
Dec	16500	3
Jan	27500	5
Feb	16500	3
Mar	16500	3
TOTAL	275000	47

Drum #	Date Filled
1	06/08/2012
2	02/04/2013

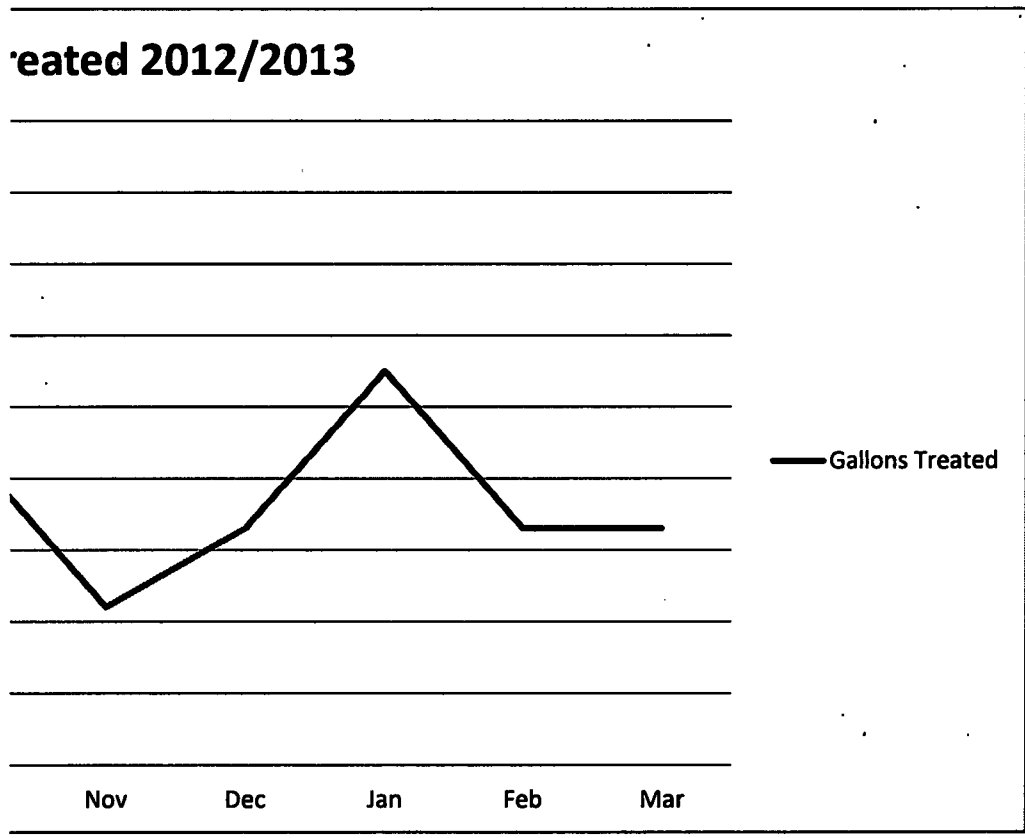
*** 2 drums picked up on 7-3**

****Total Chrome samples co**



0-12

collected on 8-3-12 and 2-8-13



February 15, 2013

SCOTT JANSSEN
FOTH INFRASTRUCTURE & ENVIRONM
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: 12W017
Pace Project No.: 4073774

Dear SCOTT JANSSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 12W017
Pace Project No.: 4073774

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Page 2 of 10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: 12W017
Pace Project No.: 4073774

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4073774001	INFLUENT -1302	Water	02/08/13 16:30	02/08/13 17:30
4073774002	EFFLUENT -1302	Water	02/08/13 16:45	02/08/13 17:30

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 12W017
Pace Project No.: 4073774

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4073774001	INFLUENT -1302	EPA 6010	DLB	1	PASI-G
4073774002	EFFLUENT -1302	EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 12W017
Pace Project No.: 4073774

Method: EPA 6010
Description: 6010 MET ICP
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: February 15, 2013

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

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 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.

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 12W017
Pace Project No.: 4073774

Sample: INFLUENT -1302 Lab ID: 4073774001 Collected: 02/08/13 16:30 Received: 02/08/13 17:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Chromium	7140	ug/L	5.0	2.4	1	02/11/13 14:30	02/14/13 14:36	7440-47-3	

ANALYTICAL RESULTS

Project: 12W017
Pace Project No.: 4073774

Sample: EFFLUENT -1302 Lab ID: 4073774002 Collected: 02/08/13 16:45 Received: 02/08/13 17:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Chromium	876 ug/L		5.0	2.4	1	02/11/13 14:30	02/14/13 14:38	7440-47-3	

QUALITY CONTROL DATA

Project: 12W017
Pace Project No.: 4073774

QC Batch: MPRP/8117 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 4073774001, 4073774002

METHOD BLANK: 748015 Matrix: Water
Associated Lab Samples: 4073774001, 4073774002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.4	5.0	02/14/13 13:36	

LABORATORY CONTROL SAMPLE: 748016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	541	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 748017 748018

Parameter	Units	4073636002		748018		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium	ug/L	<2.4	500	500	535	532	107	106	75-125	1	20

QUALIFIERS

Project: 12W017
Pace Project No.: 4073774

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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: 12W017
Pace Project No.: 4073774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4073774001	INFLUENT -1302	EPA 3010	MPRP/8117	EPA 6010	ICP/7126
4073774002	EFFLUENT -1302	EPA 3010	MPRP/8117	EPA 6010	ICP/7126

August 09, 2012

NIC DUFEK
FOTH INFRASTRUCTURE & ENVIRONM
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

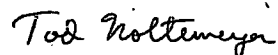
RE: Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

Dear NIC DUFEK:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

SAMPLE SUMMARY

Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4064669001	BB INFLUENT-82012	Water	08/03/12 09:00	08/03/12 16:45
4064669002	BB EFFLUENT-82012	Water	08/03/12 15:00	08/03/12 16:45

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4064669001	BB INFLUENT-82012	EPA 6010	DLB	1	PASI-G
4064669002	BB EFFLUENT-82012	EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

Method: EPA 6010
Description: 6010 MET ICP
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: August 09, 2012

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

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 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.

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 09W017 BETTER BRITE WTP

Pace Project No.: 4064669

Sample: BB INFLUENT-82012 Lab ID: 4064669001 Collected: 08/03/12 09:00 Received: 08/03/12 16:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Chromium	7220	ug/L	5.0	2.4	1	08/07/12 10:20	08/08/12 12:23	7440-47-3	

ANALYTICAL RESULTS

Project: 09W017 BETTER BRITE WTP

Pace Project No.: 4064669

Sample: BB EFFLUENT-82012 Lab ID: 4064669002 Collected: 08/03/12 15:00 Received: 08/03/12 16:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	513 ug/L		5.0	2.4	1	08/07/12 10:20	08/08/12 12:25	7440-47-3	

QUALITY CONTROL DATA

Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

QC Batch: MPRP/7299 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 4064669001, 4064669002

METHOD BLANK: 649680 Matrix: Water
Associated Lab Samples: 4064669001, 4064669002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.4	5.0	08/08/12 11:25	

LABORATORY CONTROL SAMPLE: 649681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 649682 649683

Parameter	Units	4064682001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Chromium	ug/L	<2.4	500	500	476	471	95	94	75-125	1	20	

QUALIFIERS

Project: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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: 09W017 BETTER BRITE WTP
Pace Project No.: 4064669

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4064669001	BB INFLUENT-82012	EPA 3010	MPRP/7299	EPA 6010	ICP/6339
4064669002	BB EFFLUENT-82012	EPA 3010	MPRP/7299	EPA 6010	ICP/6339

Lauridsen, Keld B - DNR

From: Dufek, Nic <Nic.Dufek@Foth.com>
Sent: Thursday, April 11, 2013 12:37 PM
To: Lauridsen, Keld B - DNR
Cc: Meister, Ron
Subject: RE: Better-Brite Annual Update & Totals
Attachments: Better Brite Analytical Results Table.pdf; 2012-2013 Better-Brite Sludge Drum Count.pdf

Hello,

I am attaching the new samples lab data table I created. I scrapped my previous sample table and made a new one including all samples I have collected at Better-Brite WTP thus far. I also included a little more descriptive detailing about the sampling. This table should be more detailed and easier to update going forward.

I am also attaching the 2012/2013 sludge drum generation chart. There is a substantial drop off in the amount of sludge generated since the change over to NaOH.

If there is anything else you would like, please let me know. I plan to collect the 2013/2014 1st round samples soon. I figure a wet season sample (roughly from March 1st to May 31st) and a drier season sample (roughly Aug 1st to Oct 31st) best represents the treatment cycle in a year.

Have a great day,

-Nic Dufek

From: Lauridsen, Keld B - DNR [<mailto:Keld.Lauridsen@wisconsin.gov>]
Sent: Wednesday, April 10, 2013 11:26 AM
To: Dufek, Nic
Subject: RE: Better-Brite Annual Update & Totals

Nic,

I should also get the table showing all the influent/effluent analytical results we have since Foth took over.

Also, did you send me the annual table showing what months the drums were filled and when picked up?

Thanks,

-Keld

Keld B. Lauridsen
Hydrogeologist
Wisconsin Department of Natural Resources
2984 Shawano Avenue.
Green Bay, WI 54313-6727

Phone (920) 662-5420
Fax (920) 662-5197
E-mail Keld.Lauridsen@wisconsin.gov

From: Dufek, Nic [<mailto:Nic.Dufek@Foth.com>]
Sent: Wednesday, April 10, 2013 11:16 AM
To: Lauridsen, Keld B - DNR
Cc: Meister, Ron
Subject: Better-Brite Annual Update & Totals

Keld,

Here are the 2012-2013 batch totals, batches processed, drum count, and analytical results for all batches ran and samples collected in the last contract period. I attached the lab results for the samples collected, along with individual batch Rx numbers (on separate tab in the excel file).

Due to the higher volume of snow and rain this Winter/Spring so far, I have already processed above average batch #'s. The trench full alarm still hasn't gone off even yet. It is going to be a busy Spring at BB. If you have any questions regarding the data or anything else, please feel free to give me a call.

Thank You,

Nicholas E. Dufek

*Please note, my work cell # has changed to **920-370-1886**

Nicholas E. Dufek
Project Environmental Technician
Foth Infrastructure & Environment, LLC
2737 South Ridge Rd, Suite 600
PO Box 12326, Green Bay, WI 54307
Office: 920-496-6826 - Cell: 920-370-1886
(Fax) 920-497-8516
Email: Nic.Dufek@Foth.com

IMPORTANT NOTICE

This communication including any attachments, (E-mail) is confidential and may be proprietary, privileged or otherwise protected from disclosure. If you are not the intended recipient, please notify the sender, permanently delete this E-Mail from your system and destroy any copies. Any use of this E-Mail, including disclosure, distribution or replication, by someone other than its intended recipient is prohibited.

This E-Mail has the potential to have been altered or corrupted due to transmission or conversion. It may not be appropriate to rely upon this E-Mail in the same manner as hardcopy materials bearing the author's original signature or seal.

Better-Brite Sludge Generation Data
 Contract Year 2012/2013



MONTH	Drum(s) Filled	Date Filled	# Drums picked up	Date Transported	Small Q + 180 days
April	0				
May	0				
June	1	6/8/2012			12/5/2012
July	0		2	7/30/2012	
August	0				
September	0				
October					
November	0				
December	0				
January	0				
February	1	2/4/2013			8/3/2013
March					
TOTAL	2				

Better-Brite Sludge Generation Data
 Contract Year 2012/2013



MONTH	Drum(s) Filled	Date Filled	# Drums picked up	Date Transported	Small Q + 180 days
April	0				
May	0				
June	1	6/8/2012			12/5/2012
July	0		2	7/30/2012	
August	0				
September	0				
October					
November	0				
December	0				
January	0				
February	1	2/4/2013			8/3/2013
March					
TOTAL	2				

Better-Brite Water Treatment Sampling



Date	Time	Location	Raw/Treated	Sampler	Analysis	Result	Unit	Lab	Lab Batch #	Comments
11/12/10	0900	South Grass Trench	Raw	NED	T. Chrome	17.1	mg/L	Pace	4039586	Sampled per WDNR request
11/12/10	0930	East Lot Trench	Raw	NED	T. Chrome	4.38	mg/L	Pace	4039586	Sampled per WDNR request
06/23/11	1400	Influent	Raw	NED	T. Chrome	4.52	mg/L	Pace	4047440	1st MgOH test batch
	1400	Influent	Raw	NED	Hex-chrome	4.4	mg/L	Pace	4047440	1st MgOH test batch
	1400	Influent	Raw	NED	T. Zinc	34.0J	ug/L	Pace	4047440	1st MgOH test batch
	1400	Influent	Raw	NED	T. Cyanide	0.34	mg/l	Pace	4047440	1st MgOH test batch
06/23/11	1410	Effluent	Treated	NED	T. Chrome	.231	mg/l	Pace	4047440	1st MgOH test batch
	1410	Effluent	Treated	NED	Hex-chrome	<0.0039	mg/l	Pace	4047440	1st MgOH test batch
	1410	Effluent	Treated	NED	T. Zinc	1.8J	ug/L	Pace	4047440	1st MgOH test batch
	1410	Effluent	Treated	NED	T. Cyanide	0.32	mg/l	Pace	4047440	1st MgOH test batch
06/27/11	1310	Influent	Raw	NED	T. Chrome	4.81	mg/l	Pace	4047579	2nd MgOH test batch
	1310	Influent	Raw	NED	Hex-chrome	4.4	mg/l	Pace	4047579	2nd MgOH test batch
	1310	Influent	Raw	NED	T. Zinc	21.2J	ug/L	Pace	4047579	2nd MgOH test batch
	1310	Influent	Raw	NED	T. Cyanide	0.30	mg/l	Pace	4047579	2nd MgOH test batch
06/27/11	1600	Effluent	Treated	NED	T. Chrome	0.974	mg/l	Pace	4047579	2nd MgOH test batch
	1600	Effluent	Treated	NED	Hex-chrome	<0.0039	mg/l	Pace	4047579	2nd MgOH test batch
	1600	Effluent	Treated	NED	T. Zinc	2.5J	ug/L	Pace	4047579	2nd MgOH test batch
	1600	Effluent	Treated	NED	T. Cyanide	0.21	mg/l	Pace	4047579	2nd MgOH test batch
06/28/11	0950	Influent	Raw	NED	T. Chrome	4.46	mg/l	Pace	4047635	1st NaOH test batch
	0950	Influent	Raw	NED	Hex-chrome	4.1	mg/l	Pace	4047635	1st NaOH test batch
	0950	Influent	Raw	NED	T. Zinc	16.9J	ug/L	Pace	4047635	1st NaOH test batch
	0950	Influent	Raw	NED	T. Cyanide	0.31	mg/l	Pace	4047635	1st NaOH test batch
06/28/11	1400	Effluent	Treated	NED	T. Chrome	1.07	mg/l	Pace	4047635	1st NaOH test batch
	1400	Effluent	Treated	NED	Hex-chrome	<0.0039	mg/l	Pace	4047635	1st NaOH test batch
	1400	Effluent	Treated	NED	T. Zinc	<1.6	ug/L	Pace	4047635	1st NaOH test batch
	1400	Effluent	Treated	NED	T. Cyanide	0.25	mg/l	Pace	4047635	1st NaOH test batch
06/29/11	1025	Influent	Raw	NED	T. Chrome	4.23	mg/l	Pace	4047710	2ndNaOH test batch
	1025	Influent	Raw	NED	Hex-chrome	3.9	mg/l	Pace	4047710	2ndNaOH test batch
	1025	Influent	Raw	NED	T. Zinc	10.7J	ug/L	Pace	4047710	2ndNaOH test batch
	1025	Influent	Raw	NED	T. Cyanide	0.29	mg/l	Pace	4047710	2ndNaOH test batch
06/29/11	1600	Effluent	Treated	NED	T. Chrome	0.998	mg/l	Pace	4047710	2ndNaOH test batch
	1600	Effluent	Treated	NED	Hex-chrome	<0.039	mg/l	Pace	4047710	2ndNaOH test batch
	1600	Effluent	Treated	NED	T. Zinc	<1.6	ug/L	Pace	4047710	2ndNaOH test batch
	1600	Effluent	Treated	NED	T. Cyanide	0.23	mg/l	Pace	4047710	2ndNaOH test batch
12/23/11	1000	Influent	Raw	NED	T. Chrome	6.85	mg/l	Pace	4055258	2nd T. Chrome Sample for 2011/2012
12/23/11	1500	Effluent	Treated	NED	T. Chrome	0.765	mg/l	Pace	4055258	2nd T. Chrome Sample for 2011/2012
08/03/12	0900	Influent	Raw	NED	T. Chrome	7.2	mg/l	Pace	4064669	1st T. Chrome Sample 2012/2013 contract yr.
08/03/12	1500	Effluent	Treated	NED	T. Chrome	0.513	mg/l	Pace	4064669	1st T. Chrome Sample 2012/2013 contract yr.
02/08/13	1630	Influent	Raw	NED	T. Chrome	7.14	mg/l	Pace	4073774	2st T. Chrome Sample 2012/2013 contract yr.
02/08/13	1645	Effluent	Treated	NED	T. Chrome	0.876	mg/l	Pace	4073774	2st T. Chrome Sample 2012/2013 contract yr.

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

Test batches with T. Chrome results in June, 2011 were also used as the 1st T. Chrome samples of the 2011/2012 contract year.

Influent samples collected from holding tank with beaker in WTP, effluent samples collected from discharge line of Rx tank in WTF.