

Lauridsen, Keld B - DNR

From: Maletzke, Jeff <Jeff.Maletzke@aecom.com>
Sent: Tuesday, April 16, 2019 12:56 PM
To: Lauridsen, Keld B - DNR
Cc: Cole, Albert; Kraeutler, Thomas M.
Subject: GP-P3 data
Attachments: final 60594990 boring logs_b-101 thru b-105_2-27-19.pdf; Final_101-105.pdf; Final_tmplt_PCBS.pdf; Final_tmplt_SATTCLP.pdf; Final_tmplt_SVTCLP.pdf; Summary of Parameters Detected - 041519.pdf; GP BRRTS SITES-11 x 17.pdf

Good Afternoon Keld:

Thanks for agreeing to have a conference call tomorrow to discuss the Georgia-Pacific Broadway Mill Expansion project. As we discussed please find attached a Table summarizing the analytical data which contains all of the detected chemicals, the boring logs for the geotechnical investigation, and a map showing the locations of the samples. We are looking forward to discussing the options for managing the urban fill material we have identified on the site as well as the soils from the nearby BRRTS sites identified on the figure which may need to be managed also. As you will see from the logs much of the site has three to seven feet of coal immediately below grade. We would like to discuss our options for managing the coal and the urban fill material including excavation and removal or capping in place with the building and roadways.

Regards,

Bert Cole

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NOTES:
WITH THE EXCEPTION OF PCBs,
ALL OBSERVED CONCENTRATIONS (TCLP)
ARE IN MICROGRAMS PER LITER (ug/L)
PCB CONCENTRATIONS ARE IN
MICROGRAMS PER KILOGRAM (ug/Kg)
J DENOTES THAT THE RESULT IS
BETWEEN THE LIMIT OF DETECTION AND
LIMIT OF QUANTIFICATION
MEK: METHYL ETHYL KETONE
PCB: POLYCHLORINATED BIPHENYL
REVISION NUMBER: 2



APPROXIMATE EXTENT OF
PETROLEUM IMPACTS (GEI,2015)

LOT 3

BUTH OIL FACILITY
BRRTS NO: 0205563707

F.F. ELEV = 606'

LOT 1-C

RECEIVING
BUILDING

FORT JAMES OPERATING COMPANY
BRRTS NO: 0305001051

LONG 136
EV = 599.96

AIR LOCK

F.F. ELEV = 590'

B-101

BARIUM: 700
MEK: 1.8J
PCB: 990

PM
BUILDING

FORT JAMES OPERATING
COMPANY NAPHTHA SPILL
BRRTS NO: 0205000251

BARIUM: 330
BENZENE: 0.55J
MEK: 0.67J

BARIUM: 370
CADMIUM: 2.1J
BENZENE: 0.50J
MEK: 0.59J

B-105

PAPER CONVERTING

B104A

PAPER STORAGE

B-103

B-102

BARIUM: 210
CADMIUM: 2.8J
MEK: 2.5

BARIUM: 450
BENZENE: 4.4
MEK: 1.5J

RELOCATED NON-IMPACTED SOIL FROM
105 & 126 PARKING LOT PROJECT

APPROXIMATE LOCATION OF
FOX RIVER NRDA/PCB RELEASE

SLIGHTLY IMPACTED RELOCATED
SOIL (CAPPED) FROM LOT 3
BRRTS NO: 0205563707

NON-IMPACTED RELOCATED SOIL
(CAPPED) FROM LOT 1-C AND LOT 3

GEOTECHNICAL BORINGS AND
BRRTS SITE SUMMARY

Drawn:	MTP	03/20/2019
Checked:	JM	03/21/2019
Approved:	AC	03/21/2019

PROJECT NUMBER
60601464

FIGURE NUMBER
3

Summary of Parameters Detected January/February 2019

Project PACE Mill Expansion

Georgia Pacific Broadway Mill - Green Bay, Wisconsin

Project No. 60594990

Parameter	Unit	B-101	B-102	B-103	B-104A	B-105
Barium	ug/L	710	210	450	330	370
Cadmium	ug/L		[2.8]			[2.1]
PCB-1242	ug/Kg	490				
PCB-1260	ug/Kg	500				
Total PCBs	ug/Kg	990				
Benzene	ug/L			4.4	[0.55]	[0.50]
Methy ethyl ketone	ug/L	[1.8]	2.5	[1.5]	[0.67]	[0.59]

Notes:

1. With the exception of PCBs, samples were analyzed by the Toxicity Characteristic Leaching Procedure (TCLP).
2. Values in brackets represent results greater than or equal to the Limit of Detection (LOD), but less than the Limit of Quantitation (LOQ), and are within a region of "less certain quantitation."
3. Only parameters with detections are shown.



OWNER
Georgia-Pacific
PROJECT NAME
P-2 GP Broadway Mill

LOG OF BORING NUMBER **B-101**

ARCHITECT-ENGINEER
AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

UNCONFINED COMPRESSIVE STRENGTH
TONS/FT² 1 2 3 4 5

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %
X --- ● --- △
10 20 30 40 50

STANDARD PENETRATION BLOWS/(FT)
⊗ 10 20 30 40 50

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³
SURFACE ELEVATION +592.14 NAVD88					
5.0	1	HA		Fill: Clay with gravel, sand, and coal cinders - reddish brown (CL)	
5.0	2	SS		Fill: Sand - trace gravel - brown - medium dense - moist (SP)	7/6"
5.5	2A	SS			54
7.5	3	SS		Fill: Coal	16
10.0	4	PA		Clay - trace sand and gravel - light reddish brown to brown - medium to very stiff (CL)	
15.0	5	SS			
15.0	6	SS			
17.0	7	SS		Clay - trace silt - brown - soft to very stiff (CL) Sample 7 - low recovery	tv
20.0	8	ST			
25.0	9	SS			
25.0	10	SS			
30.0	11	ST			
35.0	12	SS			tv 5
40.0	13	SS		Sample 13 - low recovery	tv 17
45.0	14	ST			
50.0	15	SS			
50.5	15	SS		Sandy silt - little to trace gravel - brown - medium dense - wet (ML)	20
55.0	16	SS			
55.5	16	SS		Clay - intermittent silt seams - brown - very stiff (CL)	17
60.0				... continued	

* Calibrated Penetrometer
tv = compressive strength measured with hand torvane

AECOM LOG 60594990 P-2 GP BROADWAY MILL.GPJ FS_DATA TEMPLATE.GDT 2/27/19

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

AECOM JOB NO. **60594990**

SHEET NO. **1** OF **2**

AECOM	OWNER Georgia-Pacific	LOG OF BORING NUMBER B-101
	PROJECT NAME P-2 GP Broadway Mill	ARCHITECT-ENGINEER AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ²			PLASTIC LIMIT %			WATER CONTENT %			LIQUID LIMIT %		
						1	2	3	1	2	3	1	2	3	1	2	3
SURFACE ELEVATION +592.14 NAVD88 (Continued)																	
	17	SS		Clay - intermittent silt seams - brown - very stiff (CL)													
65.0		RB		63.5 Silty sandy clay - trace gravel - brown - very stiff (CL-ML)													
	18	SS		Clay - brown - very stiff to hard (CL)													
70.0		RB		68.5 Clay - brown - very stiff to hard (CL)													
	19	SS		Clay - trace gravel - reddish brown - stiff (CL-CH)													
75.0		RB		78.5 Clay - trace gravel - reddish brown - stiff (CL-CH)													
	20	SS		Clay - trace silt - light gray - stiff (CL-ML)													
80.0		RB		92.4 Silty sand and gravel - gray - very dense - wet (SM-GM)													
	21	SS		97.6 Clay - trace silt - light gray - stiff (CL-ML)													
85.0		RB		103.4 Gravel while drilling													
	22	SS		104.9 Weathered bedrock - extremely dense													
90.0		RB		106.5 End of Boring													
	23	SS															
95.0		RB															
	24	SS															
100.0		RB															
	25	SS															
105.0		RB															
	26	SS															
106.5		RB															

AECOM LOG 60594990_P-2 GP BROADWAY MILL.GPJ_FS_DATA TEMPLATE.GDT 2/27/19

* Calibrated Penetrometer
tv = compressive strength measured with hand torvane

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

NORTHING 247522.418	BORING STARTED 1/17/19	AECOM OFFICE Oshkosh
EASTING 2482234.003	BORING COMPLETED 1/18/19	ENTERED BY MLB
WL 9.0 WD	RIG/FOREMAN D-50/JD (SES)	APP'D BY JMT
		SHEET NO. 2 OF 2
		AECOM JOB NO. 60594990



OWNER
Georgia-Pacific
PROJECT NAME
P-2 GP Broadway Mill

LOG OF BORING NUMBER
B-102

ARCHITECT-ENGINEER
AECOM

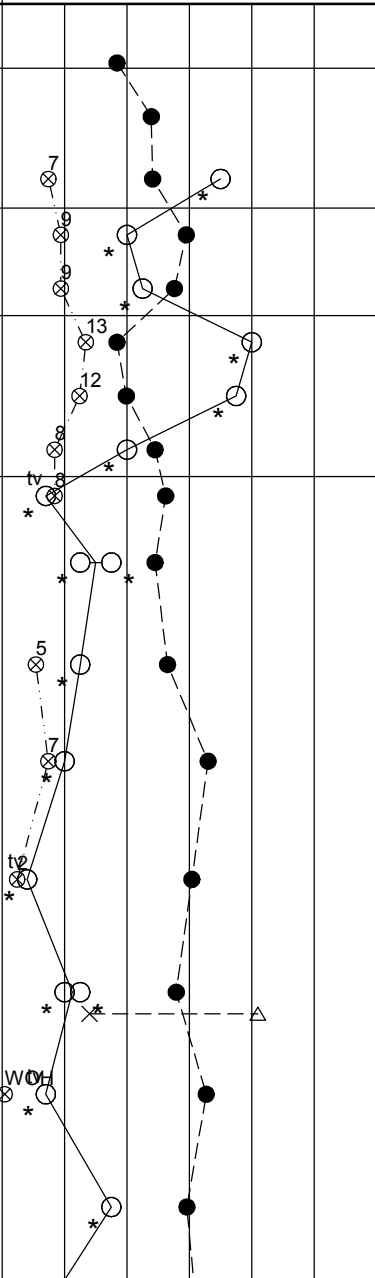
SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

UNCONFINED COMPRESSIVE STRENGTH
TONS/FT² 2 3 4 5

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %
X --- ● --- △
10 20 30 40 50

STANDARD PENETRATION BLOWS/(FT)
⊗ 10 20 30 40 50

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³
				SURFACE ELEVATION +587.04 NAVD88	
				Fill: Coal and cinders	
5.0	1	HA		3.0	
				Fill: Silty clay - trace wood - light brown (CL-ML)	
	2	HA			
10.0	3	SS		9.5	
				Clay - trace gravel - light brown to light reddish brown - very stiff to hard (CL)	
	4	SS			
15.0	5	SS		14.5	
				Clay - trace gravel - brown - very stiff (CL)	
	6	SS			
20.0	7	SS		22.0	
				Clay - trace sand and gravel - brown - medium to stiff (CL-CH)	
	8	SS			
25.0	9	SS			
	10	ST			
30.0		RB			
	11	SS			
35.0		RB			
	12	SS			
40.0		RB			
	13	SS			
45.0		RB			
	14	ST			
50.0		RB			
	15	SS			
55.0		RB			
60.0		ST			
	16	ST			
		RB			



... continued

* Calibrated Penetrometer
tv = compressive strength measured with hand torvane

AECOM LOG 60594990 P-2 GP BROADWAY MILL.GPJ_FS_DATA TEMPLATE.GDT 2/27/19

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

AECOM JOB NO.
60594990

SHEET NO. **1** OF **2**

AECOM	OWNER Georgia-Pacific	LOG OF BORING NUMBER B-102
	PROJECT NAME P-2 GP Broadway Mill	ARCHITECT-ENGINEER AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ²			PLASTIC LIMIT %			WATER CONTENT %			LIQUID LIMIT %		
						1	2	3	1	2	3	1	2	3	1	2	3
SURFACE ELEVATION +587.04 NAVD88 (Continued)																	
	17	SS		Clay - trace sand and gravel - brown - medium to stiff (CL-CH)													
65.0		RB															
	18	SS															
70.0		RB															
	19	SS															
		RB															
75.0																	
	20	SS		Silty sand with gravel - brown - extremely to very dense - wet (SM)													
		RB															
80.0																	
	21	SS															
		RB															
85.0																	
	22	SS		Silty sandy clay with gravel - brown - stiff (CL-ML)													
		RB															
90.0																	
	23	SS		Clay - reddish brown to grayish brown - medium to very stiff (CL-CH)													
		RB															
95.0																	
	24	ST															
		RB															
100.0																	
	25	SS		Clay - trace sand and silt seams - reddish brown to gray - stiff (CL)													
		RB															
105.0																	
107.0																	
				Drillers note: Hard drilling from 104.7 to 105.5 Drillers note: Rock bit refusal at 107 feet													
				End of Boring Boring advanced from to 5.5 feet by hand auger Boring advanced from 5.5 to 15 feet by power auger Boring advanced from 15 to 107 feet by rock bit and drilling fluid Temporary HW casing driven to 15 feet Standard Penetration Test performed with automatic hammer Boring backfilled with bentonite chips to 15 feet and bentonite grout from 15 to 107 feet													

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

NORTHING 247355.184	BORING STARTED 1/21/19	AECOM OFFICE Oshkosh
EASTING 2482663.693	BORING COMPLETED 1/22/19	ENTERED BY MLB
WL 13.0 WS / 14.3 BCI	RIG/FOREMAN D-50/JD (SES)	APP'D BY JMT
		SHEET NO. 2 OF 2
		AECOM JOB NO. 60594990

AECOM LOG 60594990_P-2 GP BROADWAY MILL.GPJ FS.DATATEMPLATE.GDT 2/27/19

AECOM	OWNER Georgia-Pacific	LOG OF BORING NUMBER B-103
	PROJECT NAME P-2 GP Broadway Mill	ARCHITECT-ENGINEER AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ²			PLASTIC LIMIT %			WATER CONTENT %			LIQUID LIMIT %		
						1	2	3	1	2	3	1	2	3	1	2	3
SURFACE ELEVATION +586.75 NAVD88 (Continued)						STANDARD PENETRATION BLOWS/(FT)			10			20			30		
	17	SS		Clay - grayish brown to reddish brown - stiff to very stiff (CL)													
65.0		RB		63.5 Clay - trace sand and gravel - trace silt seams - brown to reddish brown - stiff to very stiff (CL-CH)													
70.0	18	SS															
		RB															
75.0	19	ST															
		RB															
80.0	20	SS															
		RB															
85.0	21	ST															
		RB															
90.0	22	SS															
		RB															
95.0	23	ST															
		RB															
99.0	24	SS		94.0 Silty sand with gravel - gray - very dense - wet (SM)													
100.0		RB															
105.0	25	SS															
		RB															
				104.8 Possible Bedrock													
				105.8 Drillers note: Rock bit refusal at 104.8, drilled to 105.8													
				End of Boring													
				Boring advanced from to 5.5 feet by hand auger													
				Boring advanced from 5.5 to 15 feet by power auger													
				Boring advanced from 15 to 105.8 feet by rock bit and drilling fluid													
				Temporary HW casing driven to 25 feet													
				Standard Penetration Test performed with automatic hammer													
				Boring backfilled with bentonite chips to 15 feet and bentonite grout from 15 to 105.8 feet													

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

NORTHING	247242.367	BORING STARTED	1/22/19	AECOM OFFICE	Oshkosh
EASTING	2482881.499	BORING COMPLETED	1/24/19	ENTERED BY	MLB
WL	13.3 WS	RIG/FOREMAN	D-50/JD (SES)	APP'D BY	JMT
				SHEET NO.	2 OF 2
				AECOM JOB NO.	60594990

AECOM LOG 60594990_P-2 GP BROADWAY MILL.GPJ_FS_DATA TEMPLATE.GDT 2/27/19



OWNER
Georgia-Pacific
PROJECT NAME
P-2 GP Broadway Mill

LOG OF BORING NUMBER
B-104A

ARCHITECT-ENGINEER
AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

UNCONFINED COMPRESSIVE STRENGTH
TONS/FT² 1 2 3 4 5

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %
X --- ● --- △

10 20 30 40 50

STANDARD PENETRATION BLOWS/(FT)
⊗ 10 20 30 40 50

UNIT DRY WT.
LBS./FT.³

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNCONFINED COMPRESSIVE STRENGTH TONS/FT ²	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %	STANDARD PENETRATION BLOWS/(FT)
				SURFACE ELEVATION +587.10 NAVD88					
				Coal					
5.0	1	HA		4.8					
	2	SS		7.0					
	3	SS		9.0					
10.0	4	SS		12.0					
	5	SS		17.0					
15.0	6	SS		17.0					
	7	SS		24.5					
20.0	8	ST		24.5					
	9	SS		27.5					
25.0	10	SS		27.5					
	11	ST							
30.0	12	SS							
	13	SS							
40.0	14	SS							
	15	ST							
50.0	16	SS		53.5					
	16	SS							
55.0									
60.0									
				... continued					

* Calibrated Penetrometer
tv = compressive strength measured
with hand torvane

AECOM LOG 60594990 P-2 GP BROADWAY MILL.GPJ FS.DATATEMPLATE.GDT 2/27/19

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

AECOM JOB NO.
60594990

SHEET NO. **1** OF **2**

AECOM	OWNER Georgia-Pacific	LOG OF BORING NUMBER B-104A
	PROJECT NAME P-2 GP Broadway Mill	ARCHITECT-ENGINEER AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ²			PLASTIC LIMIT %			WATER CONTENT %			LIQUID LIMIT %		
						1	2	3	1	2	3	1	2	3	1	2	3
SURFACE ELEVATION +587.10 NAVD88 (Continued)																	
	17	SS		Clay - trace gravel - brown - very stiff (CL)													
65.0		RB		63.5 Clay - brown - medium to stiff (CL-CH)													
70.0	18	SS															
		RB															
75.0	19	SS															
		RB															
80.0	20	ST															
		RB															
85.0	21	SS															
		RB															
85.7	22	SS		85.7 Clay - reddish brown - soft (CL)													
		RB		87.5 Clay - trace sand - reddish brown to gray - very stiff to stiff (CL)													
90.0	23	SS															
		RB															
95.0	24	SS															
		RB															
100.0	25	SS															
		RB															
103.8	26	SS		103.8 Silty sand and gravel - gray - extremely dense - wet (SM-GM)													
105.0		RB		106.4 Drillers note: Rock bit refusal at 106.2 feet due to boulder or bedrock													
106.4		RB		End of Boring Boring advanced from to 5.5 feet by hand auger Boring advanced from 5.5 to 10 feet by power auger Boring advanced from 10 to 106.2 feet by rock bit and drilling fluid Temporary HW casing driven to 15 feet Standard Penetration Test performed with automatic hammer Boring backfilled with bentonite chips to 15 feet and bentonite grout from 15 to 106.4 feet													

AECOM LOG 60594990_P-2 GP BROADWAY MILL.GPJ_FS_DATA TEMPLATE.GDT 2/27/19

* Calibrated Penetrometer
tv = compressive strength measured with hand torvane

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

NORTHING 247000.699	BORING STARTED 1/24/19	AECOM OFFICE Oshkosh
EASTING 2482628.539	BORING COMPLETED 2/5/19	ENTERED BY MLB
WL 5.0 WS / 4.5 BCI	RIG/FOREMAN D-50/JD (SES)	APP'D BY JMT
		SHEET NO. 2 OF 2
		AECOM JOB NO. 60594990

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ² 1 2 3 4 5 PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT % X --- ● --- △ 10 20 30 40 50 STANDARD PENETRATION BLOWS/(FT) ⊗ ⊙ ⊕ 10 20 30 40 50
				SURFACE ELEVATION +588.49 NAVD88		
				Coal		
5.0	1	SS		5.2 Fill: Clay - light brown to brown - very stiff (CL)		15
	2	SS		9.5		7
10.0	3	SS		12.0 Slightly organic clay - trace shells - gray - stiff (CL-OL)		6
	4	SS		14.5 Clay - trace sand - reddish brown to brown - stiff (CL)		4
15.0	5	SS		14.5 Clay - trace gravel - reddish brown to brown - very stiff to hard (CL)		15
	6	SS				27
20.0	7	SS				28
	8	SS				24
25.0	9	SS				17
	10	SS		28.5 Clay - reddish brown - very stiff (CL)		9
30.0	11	SS		33.5 Clay - reddish brown to brown -stiff to medium (CL)		7
	12	SS				WOH
40.0	13	ST				WOH
45.0	14	SS		48.5 Clay - brown to grayish brown - medium to very stiff (CL)		WOH
50.0	15	SS				WOH
55.0						
60.0				... continued		

AECOM LOG 60594990 P-2 GP BROADWAY MILL.GPJ FS_DATA TEMPLATE.GDT 2/27/19

AECOM	OWNER Georgia-Pacific	LOG OF BORING NUMBER B-105
	PROJECT NAME P-2 GP Broadway Mill	ARCHITECT-ENGINEER AECOM

SITE LOCATION
GP Broadway Mill, Green Bay, Wisconsin

DEPTH(FT) ELEVATION(FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. ³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ²				
						PLASTIC LIMIT %		WATER CONTENT %		LIQUID LIMIT %
						10	20	30	40	50
⊗	⊗	⊗	⊗	⊗	⊗	STANDARD PENETRATION BLOWS/(FT)				
10	20	30	40	50						

SURFACE ELEVATION +588.49 NAVD88 (Continued)			
65.0	16	ST	Clay - brown to grayish brown - medium to very stiff (CL)
		RB	
70.0	17	SS	
		RB	
75.0	18	ST	
		RB	
80.0	19	SS	
		RB	
85.0	20	ST	
		RB	
90.0	21	SS	
		RB	
95.0	22	SS	Clay - brown to reddish brown - stiff (CL)
		RB	
100.0	23	SS	Trace sand and gravel in sample 23
		RB	
105.0	24	SS	Clay - reddish brown - stiff (CL)
		RB	
106.7	25	SS	Silty sand and gravel - gray - extremely dense - wet (SM-GM)
		RB	

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

NORTHING 246560.782	BORING STARTED 2/5/19	AECOM OFFICE Oshkosh
EASTING 2482440.815	BORING COMPLETED 2/7/19	ENTERED BY MLB
WL 5.0 WS	RIG/FOREMAN D-50/JD (SES)	APP'D BY JMT
		SHEET NO. 2 OF 2
		AECOM JOB NO. 60594990

AECOM LOG 60594990_P-2 GP BROADWAY MILL.GPJ FS.DATATEMPLATE.GDT 2/27/19

Drillers note: Hard drilling at 105.7 feet. Rock bit refusal at 106.7 feet
End of Boring
Boring advanced from to 5.2 feet by hand auger
Boring advanced from 5.2 to 10 feet by power auger
Boring advanced from 10 to 106.7 feet by rock bit and drilling fluid
Temporary HW casing driven to 12.5 feet
Standard Penetration Test performed with automatic hammer
Boring backfilled with bentonite chips to 15 feet and bentonite grout from 15 to 106.7 feet

* Calibrated Penetrometer
tv = compressive strength measured with hand torvane

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
 Attn: Mike Moore
 1919 South Broadway
 P O Box 19130
 Green Bay, WI 54307 9130

NLS Project: 315265

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

1547401

Project: GBB Soil

101 NLS ID: 1102921

COC: 224490:1 Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	87.7	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/28/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/28/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/27/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					02/18/19	SW846 3546	721026460 EMT

TCLP 101 NLS ID: 1102922

COC: 224490:1 Matrix: EX

Collected: 01/29/19 12:30 Received: 01/29/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	710	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/29/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/08/19	SW846 8270	721026460 RW

102 NLS ID: 1102923

COC: 224491:2 Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	81.6	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/28/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/28/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/14/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					01/30/19	SW846 3546	721026460 CSC

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
Attn: Mike Moore
1919 South Broadway
P O Box 19130
Green Bay, WI 54307 9130

NLS Project: 315265

NLS Customer: 91089

Fax: 920 438 2804 **PO #**

1547401

Project: GBB Soil

TCLP 102 NLS ID: 1102924

COC: 224491:2 Matrix: EX

Collected: 01/29/19 12:45 Received: 01/29/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	210	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	[2.8]	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/29/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/08/19	SW846 8270	721026460 RW

103 NLS ID: 1102925

COC: 224491:3 Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	82.9	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/29/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/29/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/14/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					01/30/19	SW846 3546	721026460 CSC

TCLP 103 NLS ID: 1102926

COC: 224491:3 Matrix: EX

Collected: 01/30/19 12:00 Received: 01/30/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	450	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/30/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/08/19	SW846 8270	721026460 RW

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
 Attn: Mike Moore
 1919 South Broadway
 P O Box 19130
 Green Bay, WI 54307 9130

NLS Project: 315265

NLS Customer: 91089

Fax: 920 438 2804 PO #

1547401

Project: GBB Soil

104 NLS ID: 1102927

COC: 224491:4 Matrix: SO

Collected: 01/24/19 14:00 Received: 01/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	70.1	%	1	0.10*		01/31/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					01/29/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					01/29/19	SW846 1311	721026460 JDO
Flashpoint	>140	Deg. F	1		*	02/05/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/14/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					01/30/19	SW846 3546	721026460 CSC

TCLP 104 NLS ID: 1102928

COC: 224491:4 Matrix: EX

Collected: 01/30/19 12:30 Received: 01/30/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	01/31/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	330	ug/L	10	12*	40*	01/31/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	01/31/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	01/31/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	01/31/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	01/31/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	01/31/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					01/30/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/01/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					01/31/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/12/19	SW846 8270	721026460 RW

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL REPORT

Client: Georgia-Pacific Consumer Products LP
 Attn: Mike Moore
 1919 South Broadway
 P O Box 19130
 Green Bay, WI 54307 9130

NLS Project: 315831

NLS Customer: 91089

Fax: 920 438 2804 PO #

01547401

Project: GBB Soil (1)

105 NLS ID: 1104367

COC: 224059:1 Matrix: SL

Collected: 02/05/19 16:30 Received: 02/11/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	81.8	%	1	0.10*		02/11/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					02/12/19	SW846 1311	721026460 JDO
TCLP Zero Head Space Extraction	yes					02/12/19	SW846 1311	721026460 JDO
Flashpoint	>140.0	Deg. F	1		*	02/14/19	EPA 1010	157066030 DMD
PCBs (solid) by SW846 8082	see attached					02/27/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					02/18/19	SW846 3546	721026460 EMT

TCLP 105 NLS ID: 1104368

COC: 224059:1 Matrix: EX

Collected: 02/13/19 12:20 Received: 02/13/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	02/14/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	370	ug/L	10	12*	40*	02/14/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	[2.1]	ug/L	10	1.9	6.1	02/14/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	02/14/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	02/14/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.47	1.5	02/23/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	02/14/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	02/14/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					02/13/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					02/15/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					02/15/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					02/22/19	SW846 8270	721026460 RW

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: PCBs by GC

Customer: Georgia-Pacific Consumer Products LP

NLS Project: 315265 PO # 1547401

Project Description: GBB Soil

Project Title:

Template: PCBS

Printed: 03/01/2019 17:32

Analyst: CSC

Sample: 1102921 101 Collected: 01/24/19 Analyzed: 02/27/19 - 87.7%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	490	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	500	ug/Kg	5	31	98	
Total PCBs	990	ug/Kg	5	31	98	
TCMX (SURR)	56%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.03 grams.

Sample: 1102923 102 Collected: 01/24/19 Analyzed: 02/14/19 - 81.6%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	62%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.02 grams.

Sample: 1102925 103 Collected: 01/24/19 Analyzed: 02/14/19 - 82.9%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	54%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 and sulfur cleanup by SW846 Method 3660 before analysis.

FV = Final extract is 2.04 grams.

ANALYTICAL RESULTS: PCBs by GC

Customer: Georgia-Pacific Consumer Products LP

NLS Project: 315265 PO # 1547401

Project Description: GBB Soil

Project Title:

Template: PCBS

Printed: 03/01/2019 17:32

Analyst: CSC

Sample: 1102927 104 Collected: 01/24/19 Analyzed: 02/14/19 - 70.1%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	68%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.05 grams.

ANALYTICAL RESULTS: PCBs by GC**Customer: Georgia-Pacific Consumer Products LP****NLS Project: 315831 PO # 01547401****Project Description: GBB Soil (1)****Project Title:****Template: PCBS****Printed: 03/01/2019 17:29****Analyst: CSC**

Sample: 1104367 105 Collected: 02/05/19 Analyzed: 02/27/19 - 81.8%Solids Analytes: 8

Notes: HX

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	25	79	
PCB-1221	ND	ug/Kg	5	57	190	
PCB-1232	ND	ug/Kg	5	32	110	
PCB-1242	ND	ug/Kg	5	21	70	
PCB-1248	ND	ug/Kg	5	16	49	
PCB-1254	ND	ug/Kg	5	38	130	
PCB-1260	ND	ug/Kg	5	31	98	
Total PCBs	ND	ug/Kg	5	31	98	
TCMX (SURR)	50%		5			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

HX = A dilution was required due to complex sample matrix.

CL = The extract was subjected to florisil cleanup by SW846 Method 3620 and sulfur cleanup by SW846 Method 3660 before analysis.

IV = Initial extract is 2.11 grams.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - TCLP - (VarSat2000)

Page 1 of 2

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401

Project Description: GBB Soil

Project Title: Template: SATTCLP Printed: 03/01/2019 17:32 Analyst: JLG

Sample: 1102922 TCLP 101 Collected: 01/29/19 Analyzed: 02/01/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	[1.8]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	114%		1			S
Toluene-d8 (SURR)	106%		1			S
1-Bromo-4-Fluorobenzene (SURR)	103%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1102924 TCLP 102 Collected: 01/29/19 Analyzed: 02/01/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	2.5	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	112%		1			S
Toluene-d8 (SURR)	119%		1			S
1-Bromo-4-Fluorobenzene (SURR)	107%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - TCLP - (VarSat2000)

Page 2 of 2

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401

Project Description: GBB Soil

Project Title: Template: SATTCLP Printed: 03/01/2019 17:32 Analyst: JLG

Sample: 1102926 TCLP 103 Collected: 01/30/19 Analyzed: 02/01/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	4.4	ug/L	1	0.24	0.84	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	[1.5]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	114%		1			S
Toluene-d8 (SURR)	118%		1			S
1-Bromo-4-Fluorobenzene (SURR)	101%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.
S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1102928 TCLP 104 Collected: 01/30/19 Analyzed: 02/01/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.55]	ug/L	1	0.24	0.84	J
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	[0.67]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	110%		1			S
Toluene-d8 (SURR)	104%		1			S
1-Bromo-4-Fluorobenzene (SURR)	102%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.
S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - TCLP - (VarSat2000)**Customer: Georgia-Pacific Consumer Products LP NLS Project: 315831 PO # 01547401****Project Description: GBB Soil (1)****Project Title: Template: SATTCLP Printed: 03/01/2019 17:29 Analyst: JLG**

Sample: 1104368 TCLP 105 Collected: 02/13/19 Analyzed: 02/15/19 - Analytes: 11

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.50]	ug/L	1	0.24	0.84	J
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroform	ND	ug/L	1	0.22	0.78	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.32	1.1	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
Methyl ethyl ketone	[0.59]	ug/L	1	0.57	2.0	J
Dibromofluoromethane (SURR)	100%		1			S
Toluene-d8 (SURR)	113%		1			S
1-Bromo-4-Fluorobenzene (SURR)	96%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Semi-Volatile Organic TCLP Compounds by GC/MS**Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401****Project Description: GBB Soil****Project Title: Template: SVTCLP Printed: 03/01/2019 17:32 Analyst: RW**

Sample: 1102922 TCLP 101 Collected: 01/29/19 Analyzed: 02/08/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	57%		1			S
Phenol-d5 (SURR)	45%		1			S
Nitrobenzene-d5 (SURR)	86%		1			S
2-Fluorobiphenyl (SURR)	82%		1			S
2,4,6-Tribromophenol (SURR)	86%		1			S
Terphenyl-d14 (SURR)	83%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1102924 TCLP 102 Collected: 01/29/19 Analyzed: 02/08/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	58%		1			S
Phenol-d5 (SURR)	39%		1			S
Nitrobenzene-d5 (SURR)	92%		1			S
2-Fluorobiphenyl (SURR)	85%		1			S
2,4,6-Tribromophenol (SURR)	88%		1			S
Terphenyl-d14 (SURR)	81%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Semi-Volatile Organic TCLP Compounds by GC/MS**Customer: Georgia-Pacific Consumer Products LP NLS Project: 315265 PO # 1547401****Project Description: GBB Soil****Project Title: Template: SVTCLP Printed: 03/01/2019 17:32 Analyst: RW**

Sample: 1102926 TCLP 103 Collected: 01/30/19 Analyzed: 02/08/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	57%		1			S
Phenol-d5 (SURR)	39%		1			S
Nitrobenzene-d5 (SURR)	94%		1			S
2-Fluorobiphenyl (SURR)	90%		1			S
2,4,6-Tribromophenol (SURR)	91%		1			S
Terphenyl-d14 (SURR)	82%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1102928 TCLP 104 Collected: 01/30/19 Analyzed: 02/12/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	52%		1			S
Phenol-d5 (SURR)	35%		1			S
Nitrobenzene-d5 (SURR)	89%		1			S
2-Fluorobiphenyl (SURR)	78%		1			S
2,4,6-Tribromophenol (SURR)	85%		1			S
Terphenyl-d14 (SURR)	79%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Semi-Volatile Organic TCLP Compounds by GC/MS

Customer: Georgia-Pacific Consumer Products LP NLS Project: 315831 PO # 01547401

Project Description: GBB Soil (1)

Project Title: Template: SVTCLP Printed: 03/01/2019 17:29 Analyst: RW

Sample: 1104368 TCLP 105 Collected: 02/13/19 Analyzed: 02/22/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Pyridine	ND	ug/L	1	1.7	5.7	
2-Methylphenol (o-Cresol)	ND	ug/L	1	0.74	2.5	
3 & 4-Methylphenol (m/p-Cresol)	ND	ug/L	1	1.4	4.6	
Nitrobenzene	ND	ug/L	1	0.82	2.7	
1,4-Dichlorobenzene	ND	ug/L	1	0.98	3.3	
2,4,6-Trichlorophenol	ND	ug/L	1	1.1	3.5	
2,4,5-Trichlorophenol	ND	ug/L	1	0.80	2.7	
2,4-Dinitrotoluene	ND	ug/L	1	0.84	2.8	
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4	
Hexachloroethane	ND	ug/L	1	0.67	2.2	
Hexachlorobenzene	ND	ug/L	1	0.69	2.3	
Pentachlorophenol	ND	ug/L	1	0.70	2.3	
2-Fluorophenol (SURR)	55%		1			S
Phenol-d5 (SURR)	36%		1			S
Nitrobenzene-d5 (SURR)	91%		1			S
2-Fluorobiphenyl (SURR)	83%		1			S
2,4,6-Tribromophenol (SURR)	86%		1			S
Terphenyl-d14 (SURR)	56%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.