Lauridsen, Keld B - DNR

From:	Miller, Roger <rmiller@geiconsultants.com></rmiller@geiconsultants.com>
Sent:	Wednesday, September 18, 2019 3:23 PM
То:	Lauridsen, Keld B - DNR
Cc:	POMERVILLE, JACQUELYN; Killian, Paul
Subject:	RE: G-P Broadway Mill Boiler 6 Area Sampling Approach

Thanks, Keld. We will work with G-P on the non-emergency notification form and follow up with you after we obtain the additional sampling data.



ROGER A. MILLER, P.G., C.P.G. Senior Hydrogeologist 920.455.8657 cell: 920.737.6373 3159 Voyager Drive, Green Bay, WI 54311

From: Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Sent: Wednesday, September 18, 2019 3:12 PM
To: Miller, Roger <rmiller@geiconsultants.com>
Cc: POMERVILLE, JACQUELYN <JACQUELYN.POMERVILLE@GAPAC.COM>; 'Michael T. Moore'
<Michael.Moore@gapac.com>; Mrotek, Melissa (GBY) <MELISSA.MROTEK@GAPAC.com>; Killian, Paul
velilian@geiconsultants.com>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>; Kelly, Bridget B - DNR
<BridgetB.Kelly@wisconsin.gov>; Nobile, Trevor W - DNR <Trevor.Nobile@wisconsin.gov>
Subject: [EXT] RE: G-P Broadway Mill Boiler 6 Area Sampling Approach

Roger,

I have reviewed the additional work proposed below in order to define the degree and extent of remaining lead contaminated soil at the above referenced location. This email serves as your notice to proceed with the additional soil sampling activities. Depending on the soil sampling results, it needs to be evaluated if groundwater sampling for lead will be necessary.

Now that total lead above the groundwater pathway and non-industrial direct contact RCLs has been confirmed in soil, a release to the environment should be reported to DNR using the document in the link below: https://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf

As outlined in my email dated August 29, 2019, for the GP Broadway Mill Expansion site (BRRTS # 02-05-583452), it is anticipated that PFAS sampling will be completed at Georgia-Pacific Broadway facility at some point in the near future. A separate letter for the PFAS sampling related to the GP Broadway Mill Expansion case is in the process of being drafted.

Let me know if we need to discuss anything further.

Thanks,

-Keld

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Keld B. Lauridsen Phone: (920) 662-5420 Keld.Lauridsen@wisconsin.gov

From: Beggs, Tauren R - DNR <<u>Tauren.Beggs@wisconsin.gov</u>>
Sent: Tuesday, September 3, 2019 1:55 PM
To: Miller, Roger <<u>rmiller@geiconsultants.com</u>>
Cc: POMERVILLE, JACQUELYN <<u>JACQUELYN.POMERVILLE@GAPAC.COM</u>>; 'Michael T. Moore'
<<u>Michael.Moore@gapac.com</u>>; Mrotek, Melissa (GBY) <<u>MELISSA.MROTEK@GAPAC.com</u>>; Killian, Paul
<<u>pkillian@geiconsultants.com</u>>; Lauridsen, Keld B - DNR <<u>Keld.Lauridsen@wisconsin.gov</u>>
Subject: RE: G-P Broadway Mill Boiler 6 Area Sampling Approach

Hi Roger,

Now that Keld is back, he will take over from here since he is the DNR project manager. I have included him on this email. After he got back from vacation, I provided him the information for this site that we had discussed while he was gone.

Regards,

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

Tauren R. Beggs Phone: (920) 662-5178 Tauren.Beggs@wisconsin.gov

From: Miller, Roger <<u>rmiller@geiconsultants.com</u>>
Sent: Tuesday, September 3, 2019 1:44 PM
To: Beggs, Tauren R - DNR <<u>Tauren.Beggs@wisconsin.gov</u>>
Cc: POMERVILLE, JACQUELYN <<u>JACQUELYN.POMERVILLE@GAPAC.COM</u>>; 'Michael T. Moore'
<<u>Michael.Moore@gapac.com</u>>; Mrotek, Melissa (GBY) <<u>MELISSA.MROTEK@GAPAC.com</u>>; Killian, Paul
<<u>pkillian@geiconsultants.com</u>>
Subject: G-P Broadway Mill Boiler 6 Area Sampling Approach

Tauren,

As a follow-up to our recent communications and on behalf of Georgia-Pacific Consumer Operations LLC (G-P), GEI Consultants, Inc. (GEI) is providing you with information on existing sampling results and the planned sampling approach to further characterize conditions in the Boiler 6 area (Figure 1) to support material management planning for the upcoming new boiler installation.

Project Background and Understanding

The Boiler 6 area occupies an approximately 3,000-square-foot portion along the central eastern side of the Broadway Mill. Contractors are currently removing the old boiler and associated equipment and structural elements as necessary to facilitate installation of a new boiler in the same area and potentially utilizing portions of the existing foundations. Planned construction will include excavating below the current footings to a depth of approximately 3.5 feet below top of the existing floor slab and backfilling with structural fill to install a 2-foot concrete mat foundation. Accordingly, material removed to this depth range including fill/soil likely would be excess material for proper management based on

its waste characterization. The excavation would be backfilled with engineered fill and a new concrete slab installed in the boiler room.

To support demolition planning for the Boiler 6 removal and material management, G-P environmental staff collected samples of fill beneath the floor slab for waste characterization testing. Samples were collected at depths of approximately 2 to 3 feet below the floor slab using hand tools at six locations (Sample IDs 1 through 6) at the approximate locations shown on the attached Figure 2. Sandy/clayey soil fill with occasional gravel was encountered beneath the building floor slab.

Fill samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), semi-VOCs (SVOCs), Resource Conservation and Recovery Act (RCRA) metals; polychlorinated biphenyls (PCBs); and flashpoint. Sample 2 was also tested for total RCRA metals (see attached analytical laboratory reports). Significant testing results (TCLP lead and total lead), and fill descriptions are summarized in the following table:

Sample ID	TCLP Lead (mg/L)	Total Lead	Fill Comments
		(mg/kg)	
1	<0.043		Reddish brown sandy fill, moist.
2	6.4	640	Reddish brown sandy fill, moist.
3	<0.043		Reddish brown sandy fill, moist.
4	0.044		Reddish brown sandy fill, some gravel, moist to wet.
5	<0.043		Reddish brown fill with black/dark brown/gray gravel,
			moist.
6	2.0		Black gravelly fill, moist to wet. Possible coal residues.

No PCBs or TCLP VOCs or SVOCs were detected in the samples.

TCLP lead was detected in Sample 2 (6.4 milligrams per liter [mg/L]) at a concentration exceeding its toxicity characteristic threshold of 5.0 mg/L. TCLP lead was detected in Samples 4 and 6 below the toxicity characteristic threshold.

In addition to lead, low-level barium (Samples 1 to 6) and cadmium (Sample 5) were detected in the TCLP extracts at concentrations three or more orders of magnitude below their respective toxicity characteristic thresholds.

To further assess the significance of the TCLP lead concentration in Sample 2, this sample was also analyzed for total RCRA metals. Total lead was detected in the sample at a concentration of 640 milligrams (mg/kg), which exceeds the WDNR's published background threshold value (BTV) for lead of 52 mg/kg, but is less than the NR 720, Wisconsin Administrative Code, industrial direct contact Residual Contaminant Level (RCL) of 800 mg/kg. Total barium (13 mg/kg), cadmium (0.089J mg/kg), and chromium (7.0 mg/kg) were detected at concentrations substantially less than their BTVs of 364, 1.07, and 43.5 mg/kg, respectively.

Lead was detected in the TCLP extract of one soil fill sample (Sample 2) at a concentration exceeding the RCRA toxicity characteristic. Accordingly, fill that is excavated and represented by the analytical results for Sample 2 would be classified as characteristic hazardous waste when removed/generated. Fill that is excavated and represented by the analytical results for the other samples would be classified as non-hazardous solid waste when removed/generated. Based on our review of the analytical data, including total metals data for Sample 2, lead is the only substance that has exceeded an applicable standard or waste management threshold. Accordingly, the proposed further subsurface assessment focuses on defining the extent of lead in fill/soil beneath the boiler room.

Sampling Approach and Schedule

Planned sample locations are depicted on Figure 2. The number and locations of soil probes will be determined during a walk-through of the Boiler 6 area. A contractor hired by G-P will core 3-inch diameter holes through the floor slab at the

selected probe locations to facilitate advancing approximately 2-inch-diameter, 4-foot-long core tubes into the subsurface for sample collection.

Based on current information, probes may be located adjacent to original Sample 2 for vertical definition and in 3 stepout probes located 5 feet away from and around Sample 2 ("inner ring" probes). Depending on accessibility, additional probes may be advanced approximately 10 feet from Sample 2 ("outer ring" probes). Probes will be advanced to depths ranging up to approximately 16 feet below surrounding grade to collect samples at 2- to 4-foot intervals for potential laboratory testing and to assess the depth of native soil if present at a reasonably shallow depth beneath the Boiler 6 area.

Initial testing will include TCLP lead for the sample interval below the original Sample 2 and in samples from the surrounding step-out probes collected at an approximate depth of 3 feet. Additional soil samples would be held for TCLP testing, as needed, to define the zone beneath and laterally around Sample 2 that would be classified as characteristic hazardous waste when excavated. After the zone of elevated TCLP lead is defined, additional samples would be analyzed for total lead to document anticipated post-construction conditions (construction depth of approximately 3.5 feet) and/or conditions in underlying or surrounding native clay, if encountered.

A written letter report will be prepared to document soil sampling activities. The report will include a summary of procedures and results, soil boring logs, tabular summary of TCLP and total lead data, and figures to illustrate sampling locations. We would also plan to coordinate a call or meeting with you to discuss the results and options for addressing the residual lead condition including potentially through a NR 708 No Further Action process and/or placing the site on the WDNR's Geographic Information System (GIS) registry (e.g., for reliance on the industrial direct contact RCL for lead).

Geoprobe sampling is scheduled for September 23, 2019. The sampling documentation report will be provided after receipt of additional laboratory analytical results.

Please contact us with any questions.

Thank you,



ROGER A. MILLER, P.G., C.P.G. Senior Hydrogeologist 920.455.8657 cell: 920.737.6373 3159 Voyager Drive, Green Bay, WI 54311







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Project Number: XXXXXXX

Figure Number: 2



NLS Project: 323844 PO # 01561595

Template: PCBS Printed: 07/16/2019 15:28 Analyst: CSC

Sample: 1128294 Sample 1 Collected: 06/14/19 Analyzed: 07/08/19 - 9	92.5%Solids Analyt	es: 8				Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	75%		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 before analysis.

IV = Initial extract is 2.05 grams.

Sample: 1128296 Sample 2 Collected: 06/14/19 Analyzed: 07/08/19	- 91.6%Solids Analy	tes: 8				Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	70%	21	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 before analysis.

IV = Initial extract is 2.12 grams.

NLS Project: 323843 PO # 01561595

Template: PCBS Printed: 07/16/2019 15:30 Analyst: CSC

Sample: 1128290 Sample 3 Collected: 06/14/19 Analyzed: 07/08/	<u> 19 - 89.5%Solids Analyte</u>	es: 8				Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	70%		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 before analysis.

IV = Initial extract is 2.24 grams.

Sample: 1128292 Sample 4 Collected: 06/14/19 Analyzed: 07/08/19 -	87%Solids Analytes	: 8				Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	75%		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 before analysis.

IV = Initial extract is 2.04 grams.

NLS Project: 323801 PO # 01561595

Template: PCBS Printed: 07/16/2019 15:29 Analyst: CSC

Sample: 1128224 Sample 5 Collected: 06/14/19 Analyzed: 07/08/19 -	87.6%Solids Analyte	es: 8				Notes: HX
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	84%		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 before analysis.

IV = Initial extract is 2.15 grams.

Sample: 1128226 Sample 6 Collected: 06/14/19 Analyzed: 07/	/08/19 - 76.8%Solids Analyte	es: 8	Notes: HX			
ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
PCB-1016	ND	ug/Kg	5	20	67	
PCB-1221	ND	ug/Kg	5	42	140	
PCB-1232	ND	ug/Kg	5	21	69	
PCB-1242	ND	ug/Kg	5	19	63	
PCB-1248	ND	ug/Kg	5	9.5	32	
PCB-1254	ND	ug/Kg	5	15	49	
PCB-1260	ND	ug/Kg	5	19	63	
Total PCBs	ND	ug/Kg	5	20	67	
TCMX (SURR)	73%		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 before analysis.

IV = Initial extract is 2.20 grams.

Samples 1129205 TCLD Sample 1 Collected: 06/26/10 Analyzed: 07/10/10	Apolytocy 11					
Sample, 1126293 TCLF Sample 1 Collected, 00/20/19 Analyzed, 07/10/18	9 - 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	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	112%		1			S
Toluene-d8 (SURR)	105%		1			S
1-Bromo-4-Fluorobenzene (SURR)	92%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

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

Sample: 1128297 TCLP Sample 2 Collected: 06/26/19 Analyzed: 07/10/1	9 - 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	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	123%		1			S
Toluene-d8 (SURR)	119%		1			S
1-Bromo-4-Fluorobenzene (SURR)	89%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

Sample: 1128291 TCLP Sample 3 Collected: 06/25/19 Analyzed: 07/09/19 - Analytes: 11

	111101/1001 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	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	111%		1			S
Toluene-d8 (SURR)	111%		1			S
1-Bromo-4-Fluorobenzene (SURR)	94%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

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

Sample: 1128293 TCLP Sample 4 Collected: 06/25/19 Analyzed: 07/09/19	9 - 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	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	102%		1			S
Toluene-d8 (SURR)	108%		1			S
1-Bromo-4-Fluorobenzene (SURR)	100%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

Sample: 1128225 TCLP Sample 5 Collected: 06/25/19 Analyzed: 07/09/19	9 - 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	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	100%		1			S
Toluene-d8 (SURR)	106%		1			S
1-Bromo-4-Fluorobenzene (SURR)	96%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

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

Sample: 1128227 TCLP Sample 6 Collected: 06/25/19 Analyzed: 07/09/19	9 - 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	ND	ug/L	1	0.57	2.0	
Dibromofluoromethane (SURR)	114%		1			S
Toluene-d8 (SURR)	110%		1			S
1-Bromo-4-Fluorobenzene (SURR)	98%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

Sample: 1128295 TCLP Sample 1 Collected: 06/26/19 Analyzed: 06/28/1	9 - 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)	33%		1			S
Nitrobenzene-d5 (SURR)	80%		1			S
2-Fluorobiphenyl (SURR)	80%		1			S
2,4,6-Tribromophenol (SURR)	81%		1			S
Terphenyl-d14 (SURR)	50%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

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

Sample: 1128297 TCLP Sample 2 Collected: 06/26/19 Analyzed: 06/28/19	- 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)	49%		1			S
Phenol-d5 (SURR)	32%		1			S
Nitrobenzene-d5 (SURR)	79%		1			S
2-Fluorobiphenyl (SURR)	80%		1			S
2,4,6-Tribromophenol (SURR)	80%		1			S
Terphenyl-d14 (SURR)	51%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

S

S

S

S

S

ŝ

2.7

2.8

1.4

2.2

2.3

2.3

Sample: 1128291 TCLP Sample 3 Collected: 06/25/19 Analyzed: 06/28/19 - Analytes: 12 ANALYTE NAME RESULT UNITS DIL LOD LOQ Note Pyridine ND ug/L 1 1.7 5.7 2-Methylphenol (o-Cresol) 0.74 ND ug/L 1 2.5 3 & 4-Methylphenol (m/p-Cresol) ND 1 1.4 4.6 ug/L Nitrobenzene ND ug/L 1 0.82 2.7 1,4-Dichlorobenzene ND 0.98 3.3 ug/L 1 2,4,6-Trichlorophenol ND 1 1.1 3.5 ug/L

ND

ND

ND

ND

ND

ND

50%

33%

80%

79%

73%

52%

NOTES APPLICABLE TO THIS ANALYSIS:

2,4,5-Trichlorophenol

Hexachlorobutadiene

2,4-Dinitrotoluene

Hexachloroethane

Pentachlorophenol

Phenol-d5 (SURR)

Hexachlorobenzene

2-Fluorophenol (SURR)

Nitrobenzene-d5 (SURR)

2-Fluorobiphenyl (SURR)

Terphenyl-d14 (SURR)

2,4,6-Tribromophenol (SURR)

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

Sample: 1128293 TCLP Sample 4 Collected: 06/25/19 Analyzed: 06/28/19	- 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)	48%		1			S
Phenol-d5 (SURR)	31%		1			S
Nitrobenzene-d5 (SURR)	80%		1			S
2-Fluorobiphenyl (SURR)	84%		1			S
2,4,6-Tribromophenol (SURR)	79%		1			S
Terphenyl-d14 (SURR)	51%		1			S

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

1

1

1

1

1

1

1

1

1

1

1

1

0.80

0.84

0.41

0.67

0.69

0.70

NOTES APPLICABLE TO THIS ANALYSIS:

Sample: 1128225 TCLP Sample 5 Collected: 06/25/19 Analyzed: 06/28/19 - Analytes: 12 ANALYTE NAME RESULT UNITS DIL LOD LOQ Note Pyridine ND ug/L 1 1.7 5.7 2-Methylphenol (o-Cresol) 0.74 ND ug/L 1 2.5 3 & 4-Methylphenol (m/p-Cresol) ND 1 1.4 4.6 ug/L Nitrobenzene ND ug/L 1 0.82 2.7 1,4-Dichlorobenzene ND 0.98 3.3 ug/L 1 2,4,6-Trichlorophenol ND 1 1.1 3.5 ug/L 2.7 2,4,5-Trichlorophenol ND ug/L 1 0.80 2.8 2,4-Dinitrotoluene ND ug/L 1 0.84 Hexachlorobutadiene ND 0.41 1.4 ug/L 1 2.2 Hexachloroethane ND 0.67 ug/L 1 Hexachlorobenzene ND 0.69 2.3 ug/L 1 Pentachlorophenol ND ug/L 1 0.70 2.3 2-Fluorophenol (SURR) 50% 1 S Phenol-d5 (SURR) 33% S 1 Nitrobenzene-d5 (SURR) 76% S 1 2-Fluorobiphenyl (SURR) 75% 1 S 2,4,6-Tribromophenol (SURR) 74% S 1 ŝ Terphenyl-d14 (SURR) 49% 1

NOTES APPLICABLE TO THIS ANALYSIS:

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

Sample: 1128227 TCLP Sample 6 Collected: 06/25/19 Analyzed: 06/28/19	- 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)	48%		1			S
Phenol-d5 (SURR)	30%		1			S
Nitrobenzene-d5 (SURR)	79%		1			S
2-Fluorobiphenyl (SURR)	78%		1			S
2,4,6-Tribromophenol (SURR)	81%		1			S
Terphenyl-d14 (SURR)	51%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 1 of 2

NLS Project: 323844

NLS Customer: 91089

Fax: 920 438 2804 PO #

01561595

Client:	Georgia-Pacific Consumer Products LP Attn: Jackie Pomerville
	1919 S Broadway
	P O Box 19130
	Green Bay, WI 54307

Project: GBB Boiler 6 (B6)

Sample 1 NLSTD: 1128294								
COC: 209228:1 Matrix: SL								
Collected: 06/14/19 11:14 Received: 06/18/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	92.5	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/25/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/25/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT
TCLP Sample 1 NLS ID: 1128295								
COC: 209228:1 Matrix: EX								
Collected: 06/26/19 14:15 Received: 06/26/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/30/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	180	ug/L	10	12*	40*	06/30/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/30/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/30/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	06/30/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/30/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/30/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes					06/27/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/10/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW
Sample 2 NLS ID: 1128296								
COC: 209228:2 Matrix: SL								
Collected: 06/14/19 11:25 Received: 06/18/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	91.6	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/25/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/25/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

ANALYTICAL REPORT NORTHERN LAKE SERVICE. INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060 Georgia-Pacific Consumer Products LP Client: Attn: Jackie Pomerville

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

> Printed: 07/16/19 Page 2 of 2

> > NLS Project: 323844

> > 91089 NLS Customer:

PO # Fax: 920 438 2804

01561595

1919 S Broadway P O Box 19130 Green Bay, WI 54307

Project: GBB Boiler 6 (B6)

TCLP Sample 2 NLS ID: 1128297 COC: 209228:2 Matrix: EX Collected: 06/26/19 14:40 Received: 06/26/19

arameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
rsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/30/19	SW846 6010	721026460 JDO
arium, tot. recoverable on extract as Ba by ICP	230	ug/L	10	12*	40*	06/30/19	SW846 6010	721026460 JDO
admium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/30/19	SW846 6010	721026460 JDO
hromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/30/19	SW846 6010	721026460 JDO
ead, tot. recoverable on extract as Pb by ICP	6400	ug/L	10	43	140	06/30/19	SW846 6010	721026460 JDO
lercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
elenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/30/19	SW846 6010	721026460 JDO
ilver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/30/19	SW846 6010	721026460 JDO
letals digestion - tot. recov.ICP	yes					06/27/19	SW846 3005M	721026460 JDO
CLP VOC by EPA Method 8260B	see attached					07/10/19	SW846 8260	721026460 JLG
cid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
emi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	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.

NA = Not Applicable

ND = Not Detected (< LOD) LOD = Limit of Detection

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 MCL = Maximum Contaminant Levels for Drinking Water Samples.

LOQ = Limit of Quantitation 1000 ug/L = 1 mg/LShaded results indicate >MCL.

Reviewed by:

Steman Mult

Authorized by: R. T. Krueger President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

Analytical Laboratory and Environmental Services CLIENT Wisconsin DNR cert ID ARR malin 721026460 (Cran) / 268533760 (Wauk) 400 North Lake Avenue • Crandon, WI 54520-1298 ADDRESS Wisconsin DATCP ID Tel: (715) 478-2777 • Fax: (715) 478-3060 105-000330 (Cran) / 105-000479 (Wauk) CITY STATE ZIP 54300 USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. ANALYZE PER ORDER OF ANALYSIS MATRIX: **PROJECT DESCRIPTION / NO.** QUOTATION NO. SW = surface water Indicate G or C if WW Sample is Grab or Composite. GBB Roiler WW = waste water GW = groundwater DNR FID # **DNR LICENSE #** DW = drinking water TIS = tissue CONTACT PHONE AIR = air Jacquelyn Pomeruille 920-438-4243 \$ SOIL = soil PURCHASE ORDER NO. FAX SED = sediment 561395 PROD = product NO. 209228 SL = sludgeV OTHER 0 ITEM NO. COLLECTION MATRIX COLLECTION REMARKS MLS. SAMPLE ID LAB. NO. (See above) (i.e. DNR Well ID #) DATE TIME MAPI 9 SOIL 9 0 2. SOIL C x 3. 4. 5. 6. 7. 8. 9. 10. COLLECTED BY (signature) CUSTODY SEAL NO. (IF ANY) DATE/TIME REPORT TO 19 71 **RELINQUISHED BY** (signature) **RECEIVED BY** (signature) DATE/TIME DISPATCHED BY (signature) METHOD OF TRANSPORT DATE/TIME 10 7-18 715 1100 INVOICE TO DATE/TIME CONDITION RECEIVED AT NLS BY (signature) TEMP. 0100 6-18-19 Onice **REMARKS & OTHER INFORMATION** 2577 189 90 6638 COOLER # PRESERVATIVE: OH = sodium hydroxide WDNR FACILITY NUMBER N = nitric acid E-MAIL ADDRESS NP = no preservative HA = hydrochloric & ascorbic acid Z = zinc acetateS = sulfuric acidM = methanol H = hydrochloric acid 1. TO MEET REGULATORY REQUIREMENTS, THIS FORM MUST BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED. 2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE. IMPORTANT: 3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY. Rev. 7/20/15

NORTHERN LAKE SERVICE, INC.

4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Tuesday April 9 2019 8:30 AM

Georgia-Pacific Consumer Products LP

CLIENT: Mike Moore 1919 South Broadway P O Box 19130 Green Bay, WI 54307 9130

Please ship in 3 coolers (2 sets per cooler)

Cust 91089 Order # 72190 Ship Date 04/09/2019 Type SL

UPS Ground

Sample ID: Soil Samples

6 SETS

1 x 1L Amber Glass (Widemouth) Non-Preserved TCLP - BNAs TCLP - VOCs 1 x 300mL Amber Glass (Widemouth) PCBs 1 x 4oz Glass Soil Jar Flashpoint 1 x 500mL Plastic (Widemouth) Non-Preserved TCLP - Metals NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 1 of 2

NLS Project: 323843

NLS Customer: 91089

Fax: 920 438 2804 PO #

01561595

Client:	Georgia-Pacific Consumer Products LP Attn: Jackie Pomerville
	1919 S Broadway
	P O Box 19130
	Green Bay, WI 54307

Project: GBB Boiler 6 (B6)

Sample 3 NLSTD: 1128290								
COC: 209229:1 Matrix: SL								
Collected: 06/14/19 11:36 Received: 06/18/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	89.5	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	yes					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	yes					06/24/19	SW846 1311	721026460 VMK
Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT
TCLP Sample 3 NLS ID: 1128291								
COC: 209229:1 Matrix: EX								
Collected: 06/25/19 08:40 Received: 06/25/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	210	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP	yes	-				06/25/19	SW846 3005M	721026460 JDO
TCLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW
Sample 4 NLS ID: 1128292								
COC: 209229:2 Matrix: SL								
Collected: 06/14/19 11:45 Received: 06/18/19								
Parameter	Result	Units	Dilution	LOD	LOQ	Analvzed	Method	Lab
Solids, total on solids	87.0	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Extraction	ves					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction	ves					06/24/19	SW846 1311	721026460 VMK
Flashpoint	>140	Dea. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs	ves					06/21/19	SW846 3550C	721026460 EMT
	~							

NORTHERN LAKE SERVICE. INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060 Georgia-Pacific Consumer Products LP Client: Attn: Jackie Pomerville 1919 S Broadway P O Box 19130 Fax: 920 438 2804 Green Bay, WI 54307 Project: GBB Boiler 6 (B6) TCLP Sample 4 NLS ID: 1128293

Collected: 06/25/19 10:30 Received: 06/25/19 Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Arsenic, tot. recoverable on extract as As by ICP ND 49* 160* 06/26/19 SW846 6010 721026460 JDO ug/L 10 12* 40* Barium, tot. recoverable on extract as Ba by ICP 250 ug/L 10 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP ND ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Chromium, tot. recoverable on extract as Cr by ICP ND 8.3 06/26/19 SW846 6010 721026460 JDO ug/L 10 28 Lead, tot. recoverable on extract as Pb by ICP [44] ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND 0.43 1.5 EPA 245.1, Rev 3 721026460 RS ug/L 1 07/03/19 Selenium, tot. recoverable on extract as Se by ICP ND 400 721026460 JDO 10 120 06/26/19 SW846 6010 ug/L Silver, tot. recoverable on extract as Ag by ICP ND 10 8.1 27 06/26/19 SW846 6010 721026460 JDO ug/L Metals digestion - tot. recov.ICP 06/25/19 SW846 3005M 721026460 JDO ves TCLP VOC by EPA Method 8260B SW846 8260 721026460 JLG see attached 07/09/19 Acid/Base Extraction for GC/MS SW846 3510C 721026460 EMT ves 06/27/19 Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 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.

NA = Not Applicable

ND = Not Detected (< LOD)LOD = Limit of Detection

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 MCL = Maximum Contaminant Levels for Drinking Water Samples.

COC: 209229:2 Matrix: EX

LOQ = Limit of Quantitation 1000 ug/L = 1 mg/LShaded results indicate >MCL.

Reviewed by:

Stemas Mult

Authorized by: R. T. Krueger President

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330

EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 2 of 2

> NLS Project: 323843

> NLS Customer: 91089

PO #



ANALYTICAL REPORT

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298



Wisconsin DNR cert ID

721026460 (Cran) / 268533760 (Wauk)

Rev. 7/20/15

CLIENT

Bt

Frencis

4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/16/19 Page 1 of 2

NLS Project: 323801

NLS Customer: 91089

Fax: 920 438 2804 PO #

01561595

Client:	Georgia-Pacific Consumer Products LP
•	Attn: Jackie Pomerville
	1919 S Broadway
	P O Box 19130
	Green Bay, WI 54307

Project: GBB Boiler 6 (B6)

COC: 209227.1 Matrix: SO Collected: 06/14/19 11:55 Result Units Dilution LOQ Analyzed Method Lab Parameter SOIds, total on solids 87.6 % 1 0.10* D6/18/19 SW 2540-62 0ed 721022460 EMT TCLP Extraction yes 1 0.010* D6/18/19 SW 464 1311 721022460 EMT FLAP Zoro Had Space Extraction yes 1 0.02/24/19 SW 464 1311 721022460 EMT FLAP Zoro Had Space Extraction yes 1 0.02/24/19 SW 464 0310 721022460 EMT FLAP Zoro Had Space Extraction (Soil) for PCBs yes 1 0.02/07/91 EPA 1010.A 157066030 EMD CLC 209227:1 Matrix EX Collested: 06/25/19 OF PCBs yes 0 0.02/21/19 SW 464 0302 721022460 LMT CCL 200227:1 Matrix EX Collested: 06/25/19 OF 92 yes 0 0.02/21/19 SW 466 0010 721026460 LMD CCL 200227:1 Matrix EX Collested: 06/25/19 SW 466 0010 721026460 LDO 721026460 LDO 721026460 LDO	Sample 5 NLS ID: 1128224								
Callected: 06/14/19 11:55 Received: 06/18/19 Method Lab Solids, total on solids B7.6 % 1 0.10° 06/18/19 SM 2540-G 20ed 721026460 EMT TCLP Extraction yes 1 0.06/24/19 SW 846 1311 721026460 VMK TCLP Extraction yes 0.06/24/19 SW 846 1311 721026460 VMK TCLP Extraction (Solit) for PCBs yes 0.06/24/19 SW 846 1311 721026460 VMK PCBs (solid) by SW 846 8082 see attached 0.07/08/19 SW 846 3082 721026460 VMK COC: 209227.1 Matrix : EX 06/21/19 SW 846 3082 721026400 LOC COC: 209227.1 Matrix : EX 0.02 Analyzed Method Lab Arsenic, ot, recoverable on extract as As by ICP ND ug/L 10 49° 160° 06/26/19 SW 846 6010 721026460 LDO Charmium, tot, recoverable on extract as As by ICP ND ug/L 10 12° 40° 06/26/19 SW 846 6010 721026460 LDO Chareneverable on extract as Chy ICP ND<	COC: 209227:1 Matrix: SO								
Parameter Result Units Dilution LOQ Analyzed Method Lab Solids, total on solids 87.6 % 1 0.10" D6/18/19 SM 246.0-6.20ed. (240.0 EMT T21026460 EMT TCLP Zero Head Space Extraction yes 1 0.0" D6/18/19 SW 846 1311 721026460 EMT FCLP Zero Head Space Extraction yes 1 0.02/19 SW 846 1311 721026460 EMT FCLP Zero Head Space Extraction (Soli) for PCBs yes 1 0.0708/19 SW 846 8062 721026460 EMT Organics Extraction (Soli) for PCBs yes 1 0.021/19 SW 846 8062 721026460 EMT COL: 2022/17 Matrix: EX Vesta 1 0.021/19 SW 846 8062 721026460 EMT COL: 2022/17 Matrix: EX Vesta 10.04 49° 160° 0.626/19 SW 846 6010 721026460 LDO Col: 2022/17 Matrix: EX Colicited: 06/25/19 SW 846 6010 721026460 LDO 21026460 LDO 221026460 LDO 221026460 LDO 221026460 LDO 221026460 LDO<	Collected: 06/14/19 11:55 Received: 06/18/19								
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TCLP Extraction yes 06/24/19 SW846 1311 721026460 /MK Flashpoint >140 Deg, F 1 Pol20/19 EPA 1010A 157066030 DML FCBs (solid) by SW846 8082 see attached 07/08/19 SW846 1311 721026460 /MK FCBs (solid) by SW846 8082 see attached 07/08/19 SW846 8082 721026400 /KK OC: 209227:1 Matrix: EX 06/21/19 SW846 3350C 721026460 /KK COIL: coordination yes 06/21/19 SW846 350C 721026460 /KK Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Sarding, tot. recoverable on extract as As by ICP ND ug/L 10 12* 40° D6/26/19 SW846 6010 721026460 UDO Cadmium, tot. recoverable on extract as Cd by ICP ND ug/L 10 1.9 6.1 D6/26/19 SW846 6010 721026460 UDO Chardinum, tot. recoverable on extract as S by ICP ND ug/L 10 4.3 140 D6/26/19 SW846 601	Solids, total on solids	87.6	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
TCLP Zero Head Space Extraction yes 06/24/19 SW846 1311 T21026460 VMK Flashpoint >140 Deg, F 1 * 06/20/19 EPA 1010.A 157066030 DMD PCBs (solid) by SW846 8082 see attached 07/08/19 SW846 8082 721026460 CSC Organics Extraction (Soil) for PCBs yes 06/21/19 SW846 8052 721026460 ESC COC: 209227:1 Matrix: EX 06/25/19 SW846 8010 721026460 IDO Parameter Result Units Dilution LOD Analyzed Method Lab Arsenic, tot. recoverable on extract as Ba by ICP ND ug/L 10 12* 40° 06/26/19 SW846 6010 721026460 IDO Barlum, tot. recoverable on extract as Cr by ICP ND ug/L 10 1.3* 828 06/26/19 SW846 6010 721026460 IDO Chromium, tot. recoverable on extract as Cr by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 IDO Lenoury tot. recoverable on extract as Prb by ICP ND ug/L <td>TCLP Extraction</td> <td>yes</td> <td></td> <td></td> <td></td> <td></td> <td>06/24/19</td> <td>SW846 1311</td> <td>721026460 VMK</td>	TCLP Extraction	yes					06/24/19	SW846 1311	721026460 VMK
Flashpoint >140 Deg. F 1 * 06/20/19 EPA 1010.A 157060300 DMD PCBs (solid) by SW846 8082 see attached 07/08/19 SW846 8082 721026460 CSC Organics Extraction (Soli) for PCBs yes 06/21/19 SW846 8082 721026460 CSC TCLP Sample 5 NLS 1D: 1128225 06/25/19 09:30 Received: 06/25/19 Vertice Vertice Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Arsenic, tot. recoverable on extract as Ba by ICP ND ug/L 10 H3* 160* 06/26/19 SW846 6010 721026460 UDO Cadmium, tot. recoverable on extract as Cd by ICP ND ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 UDO Cadmium, tot. recoverable on extract as Cd by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 UDO Commum, tot. recoverable on extract as Cd by ICP ND ug/L 10 8.3 16 07/03/19 EPA 24.16.0 721026460 UDO Mercury ty CVAA ND	TCLP Zero Head Space Extraction	yes					06/24/19	SW846 1311	721026460 VMK
PCBs (solid) by SW846 8082 see attached 07/08/19 SW846 8082 721026460 CSC Organics Extraction (Soil) for PCBs yes 06/21/19 SW846 3550C 721026460 CSC COC: 209227:1 Matrix: EX 06/21/19 SW846 3550C 721026460 ESC COC: 209227:1 Matrix: EX Collected: 06/25/19 0P:30 Result Units Dilution LOQ Analyzed Method Lab Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 49° 160° 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Ba by ICP 280 ug/L 10 19 6.1 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as C by ICP ND ug/L 10 4.3 140 06/26/19 SW846 6010 721026460 JDO Cherrory by CVAA ND ug/L 10 4.3 140 06/26/19 SW846 6010 721026460 JDO Selenium, tot. recoverable on extract as C by ICP ND ug/L 10 4.3 <td< td=""><td>Flashpoint</td><td>>140</td><td>Deg. F</td><td>1</td><td></td><td>*</td><td>06/20/19</td><td>EPA 1010A</td><td>157066030 DMD</td></td<>	Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
Organics Extraction (Soil) for PCBs yes D6/21/19 SW846 3550C 721026460 EMT TCLP Sample 5 NLS ID: 1128225 COC: 209227:1 Matrix: EX Collected: 06/25/19 Parameter Parameter Result Units Dilution LOD Analyzed Method Lab Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 49* 160* D6/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP IX Ug/L 10 12* 40° D6/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP IX Ug/L 10 1.2* 40° D6/26/19 SW846 6010 721026460 JDO Chard, tot. recoverable on extract as Cd by ICP ND ug/L 10 8.3 28 D6/26/19 SW846 6010 721026460 JDO Method Lag tot. recoverable on extract as Se by ICP ND ug/L 10 4.3 1.5 D7/03/19 EPA 245.1, Rev 3 721026460 JDO Stleer, tot. recoverable on ex	PCBs (solid) by SW846 8082	see attached					07/08/19	SW846 8082	721026460 CSC
International Conduction Instruction LOD LOQ Analyzed Method Lab Parameter Result Units Dilution LOQ Analyzed Method Lab Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 49* 160* 06/26/19 SW846 6010 721026460 JDO Barlum, tot. recoverable on extract as Ba by ICP 280 ug/L 10 12* 40* 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as C by ICP I3.41 ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Chromium, tot. recoverable on extract as C by ICP ND ug/L 10 4.3 140 06/26/19 SW846 6010 721026460 JDO Selenium, tot. recoverable on extract as Se by ICP ND ug/L 1 0.43 1.5 07/03/19 EPA 245.1, Rev 3 721026460 JDO Selenium, tot. recoverable on extract as A g by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 <t< td=""><td>Organics Extraction (Soil) for PCBs</td><td>yes</td><td></td><td></td><td></td><td></td><td>06/21/19</td><td>SW846 3550C</td><td>721026460 EMT</td></t<>	Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT
COC: 209227:1 Matrix: EX Collecte: 06/25/19 09:30 Received: 06/25/19 Method Lab Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 49* 160* 06/26/19 SW846 6010 721026460 JDO Barium, tot. recoverable on extract as As by ICP 280 ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP 3.4] ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Checoverable on extract as Cd by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as Cd by ICP ND ug/L 10 4.3 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 10 4.3 140 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Se by ICP ND ug/L 10 8.12 5 <t< td=""><td>TCLP Sample 5 NLS ID: 1128225</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	TCLP Sample 5 NLS ID: 1128225								
Collected: 06/25/19 Result Units Dilution LOQ Analyzed Method Lab Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 12* 40* 06/26/19 SW846 6010 721026460 JDO Barium, tot. recoverable on extract as As by ICP 280 ug/L 10 12* 40* 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP 3.4 ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Chromium, tot. recoverable on extract as C by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Metroury by CVAA ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Selenium, tot. recoverable on extract as As by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Selenium, tot. recoverable on extract as As by ICP ND ug/L 10 120 400 <	COC: 209227:1 Matrix: EX								
Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 49* 160* 06/26/19 SW846 6010 721026460 JDO Gadmium, tot. recoverable on extract as Cd by ICP [3.4] ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as C by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as C by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as S by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19	Collected: 06/25/19 09:30 Received: 06/25/19								
Arsenic, tot. recoverable on extract as As by ICP ND ug/L 10 49* 160* 06/26/19 SW846 6010 721026460 JDO Barium, tot. recoverable on extract as Ba by ICP 280 ug/L 10 12* 40° 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP [3.4] ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Chromium, tot. recoverable on extract as Cr by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as Cr by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Selenium, tot. recoverable on extract as Se by ICP ND ug/L 10 120 400 06/26/19 SW846 6010 721026460 JDO Selenium, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 </td <td>Parameter</td> <td>Result</td> <td>Units</td> <td>Dilution</td> <td>LOD</td> <td>LOQ</td> <td>Analyzed</td> <td>Method</td> <td>Lab</td>	Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Barium, tot. recoverable on extract as Ba by ICP 280 ug/L 10 12* 40* 06/26/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable on extract as Cd by ICP I.3.4] ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Chromium, tot. recoverable on extract as Cr by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as Cr by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 1 0.43 1.5 07/03/19 EPA 245.1, Rev 3 721026460 JDO Silver, tot. recoverable on extract as Se by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO TCLP VOC by	Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP [3.4] ug/L 10 1.9 6.1 06/26/19 SW846 6010 721026460 JDO Chromium, tot. recoverable on extract as Cr by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as Cr by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 1 0.43 1.5 07/03/19 EPA 245.1, Rev 3 721026460 RS Selenium, tot. recoverable on extract as Se by ICP ND ug/L 10 120 400 06/26/19 SW846 6010 721026460 RS Selenium, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Ag by ICP yes 06/25/19 SW846 8260 721026460 JDO CLP PA Method 8260B see	Barium, tot. recoverable on extract as Ba by ICP	280	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP ND ug/L 10 8.3 28 06/26/19 SW846 6010 721026460 JDO Lead, tot. recoverable on extract as Pb by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 1 0.43 1.5 07/03/19 EPA 245.1, Rev 3 721026460 JDO Selenium, tot. recoverable on extract as Se by ICP ND ug/L 10 120 400 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Metals digestion - tot. recov-ICP yes 06/25/19 SW846 8005 721026460 JLG Acid/Base Extraction for GC/MS yes 06/26/19 SW846 8260 721026460 JLG Sample 6 NLS ID: 1128226 <t< td=""><td>Cadmium, tot. recoverable on extract as Cd by ICP</td><td>[3.4]</td><td>ug/L</td><td>10</td><td>1.9</td><td>6.1</td><td>06/26/19</td><td>SW846 6010</td><td>721026460 JDO</td></t<>	Cadmium, tot. recoverable on extract as Cd by ICP	[3.4]	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Lead, tot. recoverable on extract as Pb by ICP ND ug/L 10 43 140 06/26/19 SW846 6010 721026460 JDO Mercury by CVAA ND ug/L 1 0.43 1.5 07/03/19 EPA 245.1, Rev 3 721026460 RS Selenium, tot. recoverable on extract as Ag by ICP ND ug/L 10 120 400 06/26/19 SW846 6010 721026460 RS Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Metals digestion - tot. recov.ICP yes 06/25/19 SW846 8005M 721026460 JDO Metals digestion - tot. recov.ICP yes 06/25/19 SW846 8260 721026460 JLG Acid/Base Extraction for GC/MS see attached 0 07/09/19 SW846 8260 721026460 JLG Semi-Volatiles TCLP by EPA Method 8270C see attached 0 06/28/19 SW846 8270 721026460 RW <	Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
Mercury by CVAA ND ug/L 1 0.43 1.5 07/03/19 EPA 245.1, Rev 3 721026460 RS Selenium, tot. recoverable on extract as Se by ICP ND ug/L 10 120 400 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Metals digestion - tot. recov.ICP yes 06/25/19 SW846 3005M 721026460 JDO TCLP VOC by EPA Method 8260B see attached 06/27/19 SW846 3005M 721026460 JLG Acid/Base Extraction for GC/MS yes 06/27/19 SW846 3510C 721026460 JLG Semi-Volatiles TCLP by EPA Method 8270C see attached 06/27/19 SW846 8270 721026460 RW Sample 6 NLS ID: 1128226 06/28/19 SW846 8270 721026460 RW Collected: 06/14/19 12:05 Received: 06/18/19 Parameter Parameter Result Units Dilution LOQ Analyzed Method Lab Solids, total on solids <td>Lead, tot. recoverable on extract as Pb by ICP</td> <td>ND</td> <td>ug/L</td> <td>10</td> <td>43</td> <td>140</td> <td>06/26/19</td> <td>SW846 6010</td> <td>721026460 JDO</td>	Lead, tot. recoverable on extract as Pb by ICP	ND	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
Selenium, tot. recoverable on extract as Se by ICP ND ug/L 10 120 400 06/26/19 SW846 6010 721026460 JDO Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Metals digestion - tot. recov.ICP yes 06/25/19 SW846 3005M 721026460 JDO TCLP VOC by EPA Method 8260B see attached 06/25/19 SW846 3005M 721026460 JLO Acid/Base Extraction for GC/MS yes 06/27/19 SW846 3510C 721026460 EMT Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 SW846 8270 721026460 RW Sample 6 NLS ID: 1128226 06/28/19 SW846 8270 721026460 RW Collected: 06/14/19 12:05 Received: 06/18/19 Fesult Units Dilution LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 <td< td=""><td>Mercury by CVAA</td><td>ND</td><td>ug/L</td><td>1</td><td>0.43</td><td>1.5</td><td>07/03/19</td><td>EPA 245.1, Rev 3</td><td>721026460 RS</td></td<>	Mercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Silver, tot. recoverable on extract as Ag by ICP ND ug/L 10 8.1 27 06/26/19 SW846 6010 721026460 JDO Metals digestion - tot. recov.ICP yes 06/25/19 SW846 3005M 721026460 JDO TCLP VOC by EPA Method 8260B see attached 07/09/19 SW846 8260 721026460 JLG Acid/Base Extraction for GC/MS yes 06/27/19 SW846 3510C 721026460 EMT Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 SW846 8270 721026460 EMT Sample 6 NLS ID: 1128226 06/28/19 SW846 8270 721026460 RW Collected: 06/14/19 12:05 Received: 06/18/19 Result Units Dilution LOD LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/24/19 SW846 1311 721026460 EMT	Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Metals digestion - tot. recov.ICP yes 0 06/25/19 SW846 3005M 721026460 JDO TCLP VOC by EPA Method 8260B see attached 07/09/19 SW846 8260 721026460 JLG Acid/Base Extraction for GC/MS yes 06/27/19 SW846 3510C 721026460 JLG Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 SW846 8270 721026460 RW Sample 6 NLS ID: 1128226 06/28/19 SW846 8270 721026460 RW Collected: 06/14/19 12:05 Received: 06/18/19 SW846 8270 721026460 RW Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/18/19 SW 2540-G 20ed 721026460 EMT Col P Extraction yes 1 0.10* 06/24/19 SW846 1311 721026460 EMT	Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
TCLP VOC by EPA Method 8260B see attached 07/09/19 SW846 8260 721026460 JLG Acid/Base Extraction for GC/MS yes 06/27/19 SW846 3510C 721026460 EMT Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 SW846 8270 721026460 RW Sample 6 NLS ID: 1128226 06/28/19 SW846 8270 721026460 RW COC: 209227:2 Matrix: SO 06/28/19 SW846 8270 721026460 RW Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 EMT COL P Extraction yes 1 0.10* 06/24/19 SW846 1311 721026460 EMT	Metals digestion - tot. recov.ICP	yes	_				06/25/19	SW846 3005M	721026460 JDO
Acid/Base Extraction for GC/MS yes 06/27/19 SW846 3510C 721026460 EMT Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 SW846 8270 721026460 EMT Sample 6 NLS ID: 1128226 06/28/19 SW846 8270 721026460 RW Collected: 06/14/19 12:05 Received: 06/18/19 Result Units Dilution LOD LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 EMT Coll Petraction ves 06/24/19 SW846 1311 721026460 PMT	TCLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Semi-Volatiles TCLP by EPA Method 8270C see attached 06/28/19 SW846 8270 721026460 RW Sample 6 NLS ID: 1128226	Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Sample 6 NLS ID: 1128226 COC: 20927:2 Matrix: SO Collected: 06/14/19 12:05 Received: 06/18/19 Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 EMT Coll P. Extraction ves 06/24/19 SW846 1311 721026460 VMK	Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	SW846 8270	721026460 RW
COC: 209227:2 Matrix: SO Collected: 06/14/19 12:05 Received: 06/18/19 Parameter Result Units Dilution LOD LOQ Analyzed Method Lab Solids, total on solids 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 EMT TCL P Extraction ves 06/24/19 SW846 1311 721026460 VMK	Sample 6 NLS ID: 1128226								
Collected: 06/14/19 12:05 Received: 06/18/19 Log Analyzed Method Lab Parameter 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 EMT TCL P Extraction ves 06/24/19 SW 846 1311 721026460 VMK	COC: 209227:2 Matrix: SO								
ParameterResultUnitsDilutionLODLOQAnalyzedMethodLabSolids, total on solids76.8%10.10*06/18/19SM 2540-G 20ed721026460 EMTTCL P Extractionves06/24/19SW846 1311721026460 VMK	Collected: 06/14/19 12:05 Received: 06/18/19								
Solids, total on solids 76.8 % 1 0.10* 06/18/19 SM 2540-G 20ed 721026460 EMT TCL P Extraction ves 06/24/19 SW846 1311 721026460 VMK	Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
TCLP Extraction ves 06/24/19 SW846 1311 721026460 VMK	Solids, total on solids	76.8	%	1	0.10*		06/18/19	SM 2540-G 20ed	721026460 EMT
	TCLP Extraction	ves					06/24/19	SW846 1311	721026460 VMK
TCLP Zero Head Space Extraction ves 06/24/19 SW846 1311 721026460 VMK	TCLP Zero Head Space Extraction	ves					06/24/19	SW846 1311	721026460 VMK
Flashpoint >140 Deg. F 1 * 06/20/19 EPA 1010A 157066030 DMD	Flashpoint	>140	Deg. F	1		*	06/20/19	EPA 1010A	157066030 DMD
PCBs (solid) by SW846 8082 see attached 07/08/19 SW846 8082 721026460 CSC	PCBs (solid) by SW846 8082	see attached	ŭ				07/08/19	SW846 8082	721026460 CSC
Organics Extraction (Soil) for PCBs yes 06/21/19 SW846 3550C 721026460 EMT	Organics Extraction (Soil) for PCBs	yes					06/21/19	SW846 3550C	721026460 EMT

ANALYTICAL REPORT NORTHERN LAKE SERVICE. INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

> Printed: 07/16/19 Page 2 of 2

> > NLS Project: 323801

> > 91089 NLS Customer:

PO # Fax: 920 438 2804

01561595

Georgia-Pacific Consumer Products LP Client: Attn: Jackie Pomerville 1919 S Broadway P O Box 19130 Green Bay, WI 54307

Project: GBB Boiler 6 (B6)

TCLP Sample 6 NLS ID: 1128227 COC: 209227:2 Matrix: EX Collected: 06/25/19 10:00 Received: 06/25/19

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, tot. recoverable on extract as As by ICP	ND	ug/L	10	49*	160*	06/26/19	SW846 6010	721026460 JDO
Barium, tot. recoverable on extract as Ba by ICP	680	ug/L	10	12*	40*	06/26/19	SW846 6010	721026460 JDO
Cadmium, tot. recoverable on extract as Cd by ICP	ND	ug/L	10	1.9	6.1	06/26/19	SW846 6010	721026460 JDO
Chromium, tot. recoverable on extract as Cr by ICP	ND	ug/L	10	8.3	28	06/26/19	SW846 6010	721026460 JDO
ead, tot. recoverable on extract as Pb by ICP	2000	ug/L	10	43	140	06/26/19	SW846 6010	721026460 JDO
lercury by CVAA	ND	ug/L	1	0.43	1.5	07/03/19	EPA 245.1, Rev 3	721026460 RS
Selenium, tot. recoverable on extract as Se by ICP	ND	ug/L	10	120	400	06/26/19	SW846 6010	721026460 JDO
Silver, tot. recoverable on extract as Ag by ICP	ND	ug/L	10	8.1	27	06/26/19	SW846 6010	721026460 JDO
letals digestion - tot. recov.ICP	yes					06/25/19	SW846 3005M	721026460 JDO
CLP VOC by EPA Method 8260B	see attached					07/09/19	SW846 8260	721026460 JLG
Acid/Base Extraction for GC/MS	yes					06/27/19	SW846 3510C	721026460 EMT
Semi-Volatiles TCLP by EPA Method 8270C	see attached					06/28/19	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.

NA = Not Applicable

ND = Not Detected (< LOD) LOD = Limit of Detection

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 MCL = Maximum Contaminant Levels for Drinking Water Samples.

LOQ = Limit of Quantitation 1000 ug/L = 1 mg/LShaded results indicate >MCL.

Reviewed by:

Steman Mult

Authorized by: R. T. Krueger President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services Wisconsin DNR cert ID 721026460 (Cran) / 268533760 (Wauk)

400 North Lake Avenue • Crandon, WI 54520-1298 Tel: (715) 478-2777 • Fax: (715) 478-3060



Rev. 7/20/15

Georgia-Pacific Consumer Products LP

CLIENT: Mike Moore 1919 South Broadway P O Box 19130 Green Bay, WI 54307 9130

Please ship in 3 coolers (2 sets per cooler)

Cust 91089 Order # 72190 Ship Date 04/09/2019 Type SL

UPS Ground

Sample ID: Soil Samples

6 SETS

1 x 1L Amber Glass (Widemouth) Non-Preserved TCLP - BNAs TCLP - VOCs 1 x 300mL Amber Glass (Widemouth) PCBs 1 x 4oz Glass Soil Jar Flashpoint 1 x 500mL Plastic (Widemouth) Non-Preserved TCLP - Metals

ANALYTICAL REPORT WDNR Laboratory ID No. 721026460 NORTHERN LAKE SERVICE. INC. Analytical Laboratory and Environmental Services WDATCP Laboratory Certification No. 105-330 400 North Lake Avenue - Crandon, WI 54520 EPA Laboratory ID No. WI00034 Ph: (715)-478-2777 Fax: (715)-478-3060 Printed: 08/08/19 Page 1 of 1 Georgia-Pacific Consumer Products LP Client: NLS Project: 326817 Attn: Jackie Pomerville 1919 S Broadway NLS Customer: 91089 P O Box 19130 PO # Fax: 920 438 2804 Green Bay, WI 54307 01561595 Project: Relog Sample 1128296 Sample 2 (relog) NLS ID: 1137187 COC: 209228:2 Matrix: SO Collected: 06/14/19 11:25 Received: 06/18/19 Result Parameter Units Dilution LOD LOQ Analyzed Method Lab Arsenic, tot. recoverable as As by ICP ND mg/Kg DWB 1.3 4.3 08/06/19 SW846 6010 721026460 JDO 5 mg/Kg DWB 5 0.32* Barium, tot. recoverable as Ba by ICP 13 1.1* 08/06/19 SW846 6010 721026460 JDO Cadmium, tot. recoverable as Cd by ICP [0.089] mg/Kg DWB 5 0.051 0.16 08/06/19 SW846 6010 721026460 JDO Chromium, tot. recoverable as Cr by ICP 7.0 mg/Kg DWB 5 0.22 0.75 08/06/19 SW846 6010 721026460 JDO 5 Lead, tot. recoverable as Pb by ICP 640 mg/Kg DWB 1.2 3.8 08/06/19 SW846 6010 721026460 JDO mg/Kg DWB 1 Mercury, total as Hg on solids ND 0.14 721026460 RS 0.042 08/05/19 SW846 7471B Selenium, tot. recoverable as Se by ICP ND 5 721026460 JDO mg/Kg DWB 3.2* 11* 08/06/19 SW846 6010 Silver, tot. recoverable as Ag by ICP ND mg/Kg DWB 5 0.22 0.73 08/06/19 SW846 6010 721026460 JDO

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.

1

NA = Not Applicable

ND = Not Detected (< LOD) LOD = Limit of Detection DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000

Solids, total on solids

Metals digestion - tot. recov (solid) ICP

MCL = Maximum Contaminant Levels for Drinking Water Samples.

LOQ = Limit of Quantitation1000 ug/L = 1 mg/L

91.6

yes

Shaded results indicate >MCL.

%

Reviewed by:

0.10*

Stomas Khult

SM 2540-G 20ed

SW846 3050

06/18/19

08/01/19

Authorized by: R. T. Krueger President

721026460 EMT

721026460 RSK

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD NORTHERN LAKE SERVICE, INC.

CLIENT GBB GP Broodurgy ADDRESS IG19 S. Broodurgy CITY STATE ZIP Green Bay WI 543 PROJECT DESCRIPTION / NO. GBB BONG-6(B6) DNR FID # DNR LICENSE # CONTACT Dace vely n Ponce U, 16 PHONE 920-438- PURCHASE ORDER NO. ALSUIS95 FAX	Wisconsin DNR cert ID Analytical Laboratory and Environmental Services 721026460 (Cran) / 268533760 (Wauk) 400 North Lake Avenue • Crandon, WI 54520-1298 Wisconsin DATCP ID To5-000330 (Cran) / 105-000479 (Wauk) MATRIX: SW = surface water WW = waste water WW = waste water GW = groundwater WW = waste water DW = drinking water WW = water AIR = air SOIL = soil SED = sediment FROD = product SL = studge WW = water OTHER WW = water
ITEM NLS SAMPLE ID	COLLECTION MATRIX
2894-895 Sample 6-	1-19 ILIUAM SOIL XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2. 896-877 Sumple 2 10	4-19 11:25AM SOIL WYXXX
3. 112018M	
4	
5. 01.1	
6	
7.	
8.	
9.	
10.	
COLLECTED BY (signature)	CUSTODY SEAL NO. (IF ANY) DATE/TIME <u>G17-19773</u> RECEIVED BY (signature) DATE/TIME
DISPATCHED BY (signature)	METHOD OF TRANSPORT DATE/TIME
COOLER #	DATE/TIME CONDITION TEMP. B-1E-19 10:00 Om / ca TEMP. REMARKS & OTHER INFORMATION INFORMATION IZE 5 77 189 90 1/138 58 27
PRESERVATIVE: N = nitric acid OH = sodium hydroxide NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid S = sulfuric acid M = methanol H = hydrochloric acid	
1. TO MEET REGULATORY REQUIREMENTS, 2. PLEASE USE ONE LINE PER SAMPLE, NOT 3. BETLIEN THIS FORM WITH SAMPLES -CUL	IIS FORM <u>MUST</u> BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLEH CONTAINING THE SAMPLES DESCHIBED. PER BOTTLE. IT MAY KEEP YELLOW COPY

Rev. 7/20/15

4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.