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SEDIMENTS

Mr. James Saric
Remedial Project Manager
USEPA Region 5
77 West Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3511

Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam
Area 2 – Plainwell Dam to Otsego City Dam (Otsego City Impoundment)
Area 3 – Otsego City Dam to Otsego Dam (Former Otsego Impoundment)
Area 4 – Otsego Dam to Trowbridge Dam (Former Trowbridge Impoundment)
February 2013

Date:
March 13, 2013

Contact:
Michael J. Erickson, P.E.

Phone:
810.225.1924

Email:
michael.erickson@
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Our ref:
B0064539.0004.00014
#2

Dear Jim:

Attached is the 72nd monthly progress report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site (Site) Supplemental Remedial Investigation/ Feasibility Study (SRI/FS). This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). This report is also submitted as per Paragraph 19a of the 2007 AOC for Removal Action (Docket No. V-W-07-C-863) and Paragraph 19a of the 2009 AOC for Removal Action (Docket No. V-W-09-C-925).

If you have any questions, please do not hesitate to contact me.

Sincerely,

ARCADIS

Michael J. Erickson, P.E.
Vice President

Attachments

Copies:
Michael Berkoff, USEPA
Ramon Mendoza, USEPA
Paul Bucholtz, MDEQ
Judith Alfano, MDEQ
Sharon Hanshue, MDNR
Jeff Keiser, CH2M HILL
Todd Goeks, NOAA
Jessica Winter, NOAA
Julie Sims, NOAA
Richard Gay, Weyerhaeuser Company
Martin Lebo, Ph.D., Weyerhaeuser Company
Kathy Huibregtse, ENVIRON
Garry Griffith, P.E., Georgia-Pacific LLC
Chase Fortenberry, P.G., Georgia-Pacific LLC

MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/ KALAMAZOO RIVER SUPERFUND SITE SUPPLEMENTAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (SRI/FS)

AREA 1 (MORROW DAM TO PLAINWELL DAM)
AREA 2 (PLAINWELL DAM TO OTSEGO CITY DAM – OTSEGO CITY IMPOUNDMENT)
AREA 3 (OTSEGO CITY DAM TO OTSEGO DAM – FORMER OTSEGO IMPOUNDMENT)
AREA 4 (OTSEGO DAM TO TROWBRIDGE DAM – FORMER TROWBRIDGE IMPOUNDMENT)

REPORT #72, FEBRUARY 2013

PREPARED BY ARCADIS
MARCH 13, 2013

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, 3, and 4

REPORT #72, FEBRUARY 2013

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the Administrative Settlement Agreement and Order on Consent (AOC) and Statement of Work (SOW)

- On February 5, the United States Environmental Protection Agency (USEPA) provided ARCADIS with disapproval and associated comments on the Draft *Area 1 FS Report*.

- On February 11, ARCADIS forwarded to USEPA Area 3 data map figures.

- On February 15, ARCADIS submitted the 10th semi-annual progress report for Areas 1 through 3 and 6th annual progress report for Areas 4 through 7.

- On February 15, the Michigan Department of Environmental Quality (MDEQ) provided ARCADIS with comments on the Draft *Area 1 FS Report*.

- On February 20, USEPA, MDEQ, and Georgia-Pacific met in Detroit, Michigan to discuss the Area 1 FS comments, Area 3 SRI data, the schedule for other SRI/FS activities, and Georgia-Pacific's plans for replacing ARCADIS as the primary consultant performing the SRI/FS work.

- On February 22, Georgia-Pacific forwarded to USEPA *Addendum 2 to Former Plainwell Impoundment and Plainwell No. 2 Dam Area 2012 Bank Conditions Monitoring Report*.

- On February 25, Georgia-Pacific forwarded to USEPA the soil/sediment ecological screening criteria tables used in the preliminary review of non-PCB constituents.

- On February 26, US Gypsum forwarded to ARCADIS a signed access agreement for property within Area 3.

- On February 27, USEPA forwarded to ARCADIS disapproval and comments on the *Area 4 SRI/FS Work Plan*. This plan was submitted in accordance with Section 1.3 of the SOW.

- On February 28, MDEQ forwarded to ARCADIS comments on the *Area 4 SRI/FS Work Plan*.

- On February 28, the Michigan Department of Attorney General's office wrote to USEPA regarding the upcoming on-site inspection of the former Plainwell Impoundment and bank erosion issues.

- Georgia-Pacific awaits the following:

  - USEPA's comments on the draft *Area 2 SRI Report.* This report was submitted in accordance with paragraph 33b of the AOC and Task 3 of the associated SOW.

  - USEPA's approval of the final *Former Plainwell Impoundment and Plainwell No. 2 Dam Area Bank Conditions Monitoring Report.* This report was submitted in accordance with paragraph 15g of 2007 AOC for Removal Action (Docket No. V-W-07-C-863) and paragraph 14e of 2009 AOC for Removal Action (Docket No. V-W-09-C-925).

  - MDEQ's response to the January 9th Freedom of Information Action request.

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, 3, and 4

REPORT #72, FEBRUARY 2013

Data Collected and Field Activities Conducted during the Period

- On February 14, work to place additional armor in the upstream area of the Western Channel of the former Plainwell Impoundment was completed.

Laboratory Data Received during the Period

- In February, ARCADIS received the remaining analytical results from TestAmerica Laboratories, Inc. (TestAmerica) for the fish samples collected from across the Site in November for PCB and lipid analyses. Table 1 lists the sample analytical results received from TestAmerica in February by sample delivery group (SDG).

- In accordance with paragraph 48a of the AOC, validated data for the laboratory sample delivery groups received in December are included in this monthly report. These data include the remaining analytical results for the soil and sediment sampling in Area 3 submitted for PCB, grain size, and total organic carbon analyses in October (Tables 2 and 3, respectively). These data also include the soil samples collected from the northern bank of the gas pipeline exclusion zone (Removal Area 10A) of the former Plainwell Impoundment (Table 4). In accordance with Section 2.1 of the SOW, electronic and paper copies of these laboratory data are included as part of the monthly progress report. The validation reports for these data packages are presented in Attachment A, and the electronic data deliverables are included on the enclosed CD.

Problems

- None.

Actions Taken to Correct Problems

- None.

Developments Anticipated during the Next Two Reporting Periods

- By March 22, Georgia-Pacific plans to submit a request to extend the 45-day response period for to allow appropriate time to address the comments received on the draft Area 1 Feasibility Study dated February 5, 2013.

- In March, Georgia-Pacific is scheduled to submit the proposed *Area 3 Field Sampling Plan* to USEPA which is intended to define the means and methods to collect the additional data needed to complete the Area 3 Remedial Investigation Report.

- In March, USEPA is scheduled to provide Georgia-Pacific draft comments on the *Area 2 SRI Report*.

- In March, Georgia-Pacific and USEPA are scheduled to complete the final inspection of the former Plainwell Impoundment in accordance with paragraph 15h of the 2007 AOC for Removal Action (Docket No. V-W-07-C-863).

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, 3, and 4

REPORT #72, FEBRUARY 2013

- The March monthly report will include validated data for the laboratory SDGs received in January, in accordance with paragraph 48a of the AOC.

- The April monthly report will include validated data for the laboratory SDGs received in February, in accordance with paragraph 48a of the AOC.

- By April 29, Georgia-Pacific is scheduled to submit the revised *Area 4 SRI/FS Work Plan* to USEPA.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #72, February 2013

Table 1 - Kalamazoo River 2012 Fish Sampling - Sample Results Received in February 2013

SDG	Location	ABSA	Species Group	Species	Sample ID	Date SDG Received from Laboratory
13676	Upstream of Otsego City Dam	ABSA 6	Sunfish	Bluegill	K41414	2/13/2013
					K41415	2/13/2013
					K41416	2/13/2013
					K41417	2/13/2013
			Panfish	Rockbass	K41418	2/13/2013
					K41419	2/13/2013
					K41420	2/13/2013
					K41421	2/13/2013
					K41422	2/13/2013
					K41423	2/13/2013
					K41424	2/13/2013
					K41425	2/13/2013
					K41426	2/13/2013
					K41427	2/13/2013
					K41428	2/13/2013
	Upstream of Allegan Dam (Lake Allegan)	ABSA 9	Catfish	Channel Catfish	K41429	2/13/2013
					K41430	2/13/2013
					K41431	2/13/2013
					K41432	2/13/2013
					K41433	2/13/2013
13675	Upstream of Morrow Dam (Morrow Lake)	ABSA 2	Bass	Smallmouth Bass	K41394	2/13/2013
					K41395	2/13/2013
	Upstream of Otsego City D	ABSA 6	Sunfish	Bluegill	K41407	2/13/2013
					K41408	2/13/2013
					K41409	2/13/2013
					K41410	2/13/2013
					K41411	2/13/2013
					K41412	2/13/2013
					K41413	2/13/2013
			Catfish	Brown Bullhead	K41396	2/13/2013
				Yellow Bullhead	K41397	2/13/2013
					K41398	2/13/2013
					K41399	2/13/2013
					K41400	2/13/2013
					K41401	2/13/2013
					K41402	2/13/2013
					K41403	2/13/2013
					K41404	2/13/2013
					K41405	2/13/2013
					K41406	2/13/2013
13678	Upstream of Allegan Dam (Lake Allegan)	ABSA 9	Sunfish	Green Sunfish x Pumpkinseed	K41451	2/13/2013
					K41452	2/13/2013
					K41453	2/13/2013
				Pumpkinseed	K41450	2/13/2013
			Panfish	Rockbass	K41434	2/13/2013
					K41435	2/13/2013
					K41436	2/13/2013
			Bass	Smallmouth Bass	K41437	2/13/2013
					K41438	2/13/2013
					K41439	2/13/2013
					K41440	2/13/2013
					K41441	2/13/2013
					K41442	2/13/2013
			Sunfish	Bluegill	K41443	2/13/2013
					K41444	2/13/2013
					K41445	2/13/2013
					K41446	2/13/2013
					K41447	2/13/2013
					K41448	2/13/2013
					K41449	2/13/2013

See Notes on Page 3.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #72, February 2013

Table 1 - Kalamazoo River 2012 Fish Sampling - Sample Results Received in February 2013

SDG	Location	ABSA	Species Group	Species	Sample ID	Date SDG Received from Laboratory
13680	Near D Ave	ABSA 4	Sunfish	Bluegill	K41475	2/13/2013
					K41476	2/13/2013
					K41477	2/13/2013
					K41478	2/13/2013
					K41479	2/13/2013
					K41480	2/13/2013
					K41481	2/13/2013
					K41482	2/13/2013
				Pumpkinseed	K41483	2/13/2013
					K41484	2/13/2013
					K41485	2/13/2013
			Panfish	Rockbass	K41486	2/13/2013
					K41487	2/13/2013
					K41488	2/13/2013
					K41489	2/13/2013
					K41490	2/13/2013
					K41491	2/13/2013
					K41492	2/13/2013
					K41493	2/13/2013
	Upstream of Allegan Dam (Lake Allegan)	ABSA 9	Catfish	Channel Catfish	K41474	2/13/2013
13758	Upstream of Allegan Dam (Lake Allegan)	ABSA 9	Panfish	Rockbass	K41509	2/13/2013
					K41510	2/13/2013
					K41511	2/13/2013
					K41512	2/13/2013
					K41513	2/13/2013
					K41514	2/13/2013
					K41515	2/13/2013
13681	Near D Ave	ABSA 4	Panfish	Rockbass	K41494	2/13/2013
					K41495	2/13/2013
					K41496	2/13/2013
			Catfish	Brown Bullhead	K41497	2/13/2013
					K41498	2/13/2013
					K41499	2/13/2013
					K41500	2/13/2013
					K41501	2/13/2013
					K41502	2/13/2013
				Yellow Bullhead	K41503	2/13/2013
					K41504	2/13/2013
					K41505	2/13/2013
					K41506	2/13/2013
					K41507	2/13/2013
	Upstream of Allegan Dam (Lake Allegan)	ABSA 9	Bass	Smallmouth Bass	K41508	2/13/2013
13679	Upstream of Allegan Dam (Lake Allegan)	ABSA 9	Sunfish	Bluegill	K41459	2/14/2013
					K41460	2/14/2013
					K41454	2/14/2013
					K41455	2/14/2013
					K41456	2/14/2013
					K41457	2/14/2013
					K41458	2/14/2013
			Panfish	Rockbass	K41461	2/14/2013
					K41462	2/14/2013
					K41463	2/14/2013
					K41464	2/14/2013
					K41465	2/14/2013
					K41466	2/14/2013
					K41467	2/14/2013
					K41468	2/14/2013

See Notes on Page 3.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #72, February 2013

Table 1 - Kalamazoo River 2012 Fish Sampling - Sample Results Received in February 2013

SDG	Location	ABSA	Species Group	Species	Sample ID	Date SDG Received from Laboratory
13679 (Cont.)	Upstream of Allegan Dam (Lake Allegan) (Cont.)	ABSA 9 (Cont.)	Catfish	Channel Catfish	K41469	2/14/2013
					K41470	2/14/2013
					K41471	2/14/2013
					K41472	2/14/2013
					K41473	2/14/2013

Notes:
ABSA = Aquatic Biota Sampling Area.
SDG = Sample Delivery Group.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #72, February 2013

Table 2 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Soil Sample Analytical Results Received in December 2012

Sample Name:		K28555	K28557	K28558	K28559	K28560	K28561	K28562	K28563	K28564	K28565	K28566	K28567	K28568	K28569
Sample Depth(in):		12 - 15	24 - 30	0 - 6	6 - 10	10 - 12	12 - 18	18 - 24	24 - 30	30 - 36	36 - 48	48 - 60	60 - 72	72 - 78	78 - 80
Date Collected:		10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
Location ID:	Units	OTBS-10	OTBS-10	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13	OTBS-13
PCB Aroclors															
Aroclor-1016	mg/kg	0.023 U	0.026 U	0.027 U	0.023 U	0.072 U	0.76 U	2.2 U	4.0 U	4.6 U	0.46 U	0.048 U	0.043 U	0.039 U	0.025 U
Aroclor-1221	mg/kg	0.023 U	0.026 U	0.027 U	0.023 U	0.072 U	0.76 U	2.2 U	4.0 U	4.6 U	0.46 U	0.048 U	0.043 U	0.039 U	0.025 U
Aroclor-1232	mg/kg	0.023 U	0.026 U	0.027 U	0.023 U	0.072 U	0.76 U	2.2 U	4.0 U	4.6 U	0.46 U	0.048 U	0.043 U	0.039 U	0.025 U
Aroclor-1242	mg/kg	0.023 U	0.026 U	0.027 U	0.023 U	0.072 U	0.76 U	2.2 U	30 J	24 J	2.5	0.048 U	0.043 U	0.039 U	0.025 U
Aroclor-1248	mg/kg	0.019 J	0.026 U	0.15	0.11	0.24	4.2	21 J	4.0 U	4.6 U	0.46 U	0.048 U	0.043 U	0.039 U	0.025 U
Aroclor-1254	mg/kg	0.030	0.026 U	0.15	0.11	0.34	4.9	11 J	18 J	19 J	1.8	0.048 U	0.043 U	0.039 U	0.025 U
Aroclor-1260	mg/kg	0.0081 J	0.026 U	0.035	0.025	0.075	0.89	1.6 J	3.1 J	3.3 J	0.38 J	0.066	0.043 U	0.039 U	0.025 U
Total PCBs	mg/kg	0.057 J	0.026 U	0.34	0.25	0.66	10	34 J	51 J	46 J	4.7 J	0.066	0.043 U	0.039 U	0.025 U
Miscellaneous															
Percent Solids	%	73.3	65.2	66.4	72.3	49.9	43.7	40.5	41.4	37.6	38.9	35.9	39.9	43.7	70.5
TOC															
Total Organic Carbon	mg/kg	NA	NA	41,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Grain Size Analysis															
Sand, percent	%	NA	NA	82.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gravel	%	NA	NA	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coarse Sand	%	NA	NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Medium Sand	%	NA	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fine Sand	%	NA	NA	79.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silt	%	NA	NA	13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Clay	%	NA	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 3 inch	% passing	NA	NA	100 (75000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 2 inch	% passing	NA	NA	100 (50000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 1.5 inch	% passing	NA	NA	100 (37500)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 1 inch	% passing	NA	NA	100 (25000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 3/4 inch	% passing	NA	NA	100 (19000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 3/8 inch	% passing	NA	NA	100 (9500)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #4	% passing	NA	NA	99.8 (4750)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #10	% passing	NA	NA	99.7 (2000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #20	% passing	NA	NA	99.1 (850)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #40	% passing	NA	NA	97.5 (425)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #60	% passing	NA	NA	92 (250)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #80	% passing	NA	NA	55.7 (180)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #100	% passing	NA	NA	38.8 (150)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #200	% passing	NA	NA	17.7 (75)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 1	% passing	NA	NA	14.3 (34)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 2	% passing	NA	NA	9.4 (22.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 3	% passing	NA	NA	7 (13)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 4	% passing	NA	NA	4.6 (9.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 5	% passing	NA	NA	4.6 (6.6)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 6	% passing	NA	NA	3.8 (3.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 7	% passing	NA	NA	2.9 (1.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 6.

Table 2 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Soil Sample Analytical Results Received in December 2012

Sample Name:		K28570	K28571	K28572	K28573	K28574 [K28575]	K28576	K28577	K28578	K28579	K28580	K28581	K28582	K28583
Sample Depth(in):		0 - 6	6 - 12	12 - 24	24 - 36	36 - 48	0 - 6	6 - 11	11 - 24	24 - 33	33 - 36	36 - 48	48 - 60	60 - 63
Date Collected:		10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12
Location ID:	Units	OTBN-14	OTBN-14	OTBN-14	OTBN-14	OTBN-14	OTBS-14	OTBS-14	OTBS-14	OTBS-14	OTBS-14	OTBS-14	OTBS-14	OTBS-14
PCB Aroclors														
Aroclor-1016	mg/kg	0.023 U	0.023 U	0.018 U	0.019 U	0.021 U [0.021 U]	0.28 U	1.4 U	3.0 U	0.35 U	0.024 U	0.045 U	0.044 U	0.021 U
Aroclor-1221	mg/kg	0.023 U	0.023 U	0.018 U	0.019 U	0.021 U [0.021 U]	0.28 U	1.4 U	3.0 U	0.35 U	0.024 U	0.045 U	0.044 U	0.021 U
Aroclor-1232	mg/kg	0.023 U	0.023 U	0.018 U	0.019 U	0.021 U [0.021 U]	0.28 U	1.4 U	3.0 U	0.35 U	0.024 U	0.045 U	0.044 U	0.021 U
Aroclor-1242	mg/kg	0.040	0.033	0.018 U	0.019 U	0.021 U [0.021 U]	0.28 U	1.4 U	19	0.35 U	0.024 U	0.045 U	0.044 U	0.021 U
Aroclor-1248	mg/kg	0.023 U	0.023 U	0.018 U	0.019 U	0.021 U [0.021 U]	1.7	6.2	3.0 U	1.7	0.061 JN	0.045 U	0.044 U	0.021 U
Aroclor-1254	mg/kg	0.092	0.12	0.0086 J	0.019 U	0.021 U [0.021 U]	1.7	4.9	18	3.8	0.14	0.045 U	0.044 U	0.021 U
Aroclor-1260	mg/kg	0.031	0.032	0.018 U	0.019 U	0.021 U [0.021 U]	0.31	0.74 J	2.6 J	0.79	0.046	0.045 U	0.044 U	0.021 U
Total PCBs	mg/kg	0.16	0.19	0.0086 J	0.019 U	0.021 U [0.021 U]	3.7	12 J	40 J	6.3	0.25	0.045 U	0.044 U	0.021 U
Miscellaneous														
Percent Solids	%	76.5	74.4	92.9	89.6	80.1 [80.2]	62.5	61.4	54.7	48.1	70.2	38.6	38.8	82.1
TOC														
Total Organic Carbon	mg/kg	50,800	NA	NA	NA	NA	89,000	NA	NA	NA	NA	NA	NA	NA
Grain Size Analysis														
Sand, percent	%	72.5	NA	NA	NA	NA	52.5	NA	NA	NA	NA	NA	NA	NA
Gravel	%	0.5	NA	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NA	NA
Coarse Sand	%	2.1	NA	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NA	NA
Medium Sand	%	17.3	NA	NA	NA	NA	8.1	NA	NA	NA	NA	NA	NA	NA
Fine Sand	%	53.1	NA	NA	NA	NA	44	NA	NA	NA	NA	NA	NA	NA
Silt	%	24.5	NA	NA	NA	NA	42.8	NA	NA	NA	NA	NA	NA	NA
Clay	%	2.5	NA	NA	NA	NA	4.4	NA	NA	NA	NA	NA	NA	NA
Sieve, 3 inch	% passing	100 (75000)	NA	NA	NA	NA	100 (75000)	NA	NA	NA	NA	NA	NA	NA
Sieve, 2 inch	% passing	100 (50000)	NA	NA	NA	NA	100 (50000)	NA	NA	NA	NA	NA	NA	NA
Sieve, 1.5 inch	% passing	100 (37500)	NA	NA	NA	NA	100 (37500)	NA	NA	NA	NA	NA	NA	NA
Sieve, 1 inch	% passing	100 (25000)	NA	NA	NA	NA	100 (25000)	NA	NA	NA	NA	NA	NA	NA
Sieve, 3/4 inch	% passing	100 (19000)	NA	NA	NA	NA	100 (19000)	NA	NA	NA	NA	NA	NA	NA
Sieve, 3/8 inch	% passing	100 (9500)	NA	NA	NA	NA	100 (9500)	NA	NA	NA	NA	NA	NA	NA
Sieve, #4	% passing	99.5 (4750)	NA	NA	NA	NA	99.7 (4750)	NA	NA	NA	NA	NA	NA	NA
Sieve, #10	% passing	97.4 (2000)	NA	NA	NA	NA	99.3 (2000)	NA	NA	NA	NA	NA	NA	NA
Sieve, #20	% passing	93.5 (850)	NA	NA	NA	NA	96.3 (850)	NA	NA	NA	NA	NA	NA	NA
Sieve, #40	% passing	80.1 (425)	NA	NA	NA	NA	91.2 (425)	NA	NA	NA	NA	NA	NA	NA
Sieve, #60	% passing	60.8 (250)	NA	NA	NA	NA	83.9 (250)	NA	NA	NA	NA	NA	NA	NA
Sieve, #80	% passing	48.2 (180)	NA	NA	NA	NA	72.5 (180)	NA	NA	NA	NA	NA	NA	NA
Sieve, #100	% passing	40.2 (150)	NA	NA	NA	NA	64.2 (150)	NA	NA	NA	NA	NA	NA	NA
Sieve, #200	% passing	27 (75)	NA	NA	NA	NA	47.2 (75)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 1	% passing	5.9 (35.6)	NA	NA	NA	NA	17.6 (34.5)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 2	% passing	5.2 (22.6)	NA	NA	NA	NA	15.2 (22.1)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 3	% passing	4.5 (13.1)	NA	NA	NA	NA	8 (13.1)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 4	% passing	3.2 (9.4)	NA	NA	NA	NA	6.8 (9.3)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 5	% passing	2.5 (6.5)	NA	NA	NA	NA	4.4 (6.8)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 6	% passing	1.8 (3.3)	NA	NA	NA	NA	3.2 (3.3)	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 7	% passing	1.1 (1.4)	NA	NA	NA	NA	0.7 (1.4)	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 6.

Table 2 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Soil Sample Analytical Results Received in December 2012

Sample Name:		K28584	K28585	K28586	K28587	K28588	K28589 [K28590]	K28591	K28592	K28593	K28594	K28595	K28596	K28597
Sample Depth(in):		63 - 75	75 - 82	0 - 6	6 - 12	12 - 22	22 - 30	30 - 32	32 - 38	38 - 48	48 - 54	54 - 57	57 - 63	63 - 73
Date Collected:		10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12
Location ID:	Units	OTBS-14	OTBS-14	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15	OTBS-15
PCB Aroclors														
Aroclor-1016	mg/kg	0.026 U	0.042 U	0.044 U	0.11 U	0.47 U	2.6 U [1.4 U]	0.023 U	0.039 U	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Aroclor-1221	mg/kg	0.026 U	0.042 U	0.044 U	0.11 U	0.47 U	2.6 U [1.4 U]	0.023 U	0.039 U	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Aroclor-1232	mg/kg	0.026 U	0.042 U	0.044 U	0.11 U	0.47 U	2.6 U [1.4 U]	0.023 U	0.039 U	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Aroclor-1242	mg/kg	0.026 U	0.042 U	0.11	0.11 U	0.47 U	2.6 U [1.4 U]	0.023 U	0.039 U	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Aroclor-1248	mg/kg	0.026 U	0.042 U	0.044 U	0.54	3.0	9.8 [9.7]	0.13	0.11 JN	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Aroclor-1254	mg/kg	0.026 U	0.042 U	0.25	0.63	3.2	6.1 [6.3]	0.15	0.070 JN	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Aroclor-1260	mg/kg	0.026 U	0.042 U	0.053	0.17	0.58	1.7 J [0.81 J]	0.034	0.047	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Total PCBs	mg/kg	0.026 U	0.042 U	0.41	1.3	6.8	18 J [17 J]	0.31	0.23 J	0.045 U	0.041 U	0.021 U	0.030 U	0.019 U
Miscellaneous														
Percent Solids	%	65	41	77.2	73.6	72.5	63 [64.6]	76	42.2	40	42.3	77.3	54.9	86.6
TOC														
Total Organic Carbon	mg/kg	NA	NA	43,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Grain Size Analysis														
Sand, percent	%	NA	NA	80.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gravel	%	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coarse Sand	%	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Medium Sand	%	NA	NA	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fine Sand	%	NA	NA	77.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silt	%	NA	NA	16.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Clay	%	NA	NA	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 3 inch	% passing	NA	NA	100 (75000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 2 inch	% passing	NA	NA	100 (50000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 1.5 inch	% passing	NA	NA	100 (37500)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 1 inch	% passing	NA	NA	100 (25000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 3/4 inch	% passing	NA	NA	100 (19000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, 3/8 inch	% passing	NA	NA	100 (9500)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #4	% passing	NA	NA	100 (4750)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #10	% passing	NA	NA	100 (2000)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #20	% passing	NA	NA	99.5 (850)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #40	% passing	NA	NA	97.4 (425)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #60	% passing	NA	NA	90.7 (250)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #80	% passing	NA	NA	71.7 (180)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #100	% passing	NA	NA	51.5 (150)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sieve, #200	% passing	NA	NA	19.6 (75)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 1	% passing	NA	NA	6.4 (35.6)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 2	% passing	NA	NA	5.7 (22.6)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 3	% passing	NA	NA	5 (13.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 4	% passing	NA	NA	4.2 (9.3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 5	% passing	NA	NA	3.5 (6.5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 6	% passing	NA	NA	2.7 (3.3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrometer Reading 7	% passing	NA	NA	1.9 (1.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 6.

Table 2 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Soil Sample Analytical Results Received in December 2012

Sample Name:		K28598	K28599	K28600	K28601	K28602	K28603	K28604	K28605	K28606	K28607	K28608	K28609	K28610	K28611
Sample Depth(in):		73 - 76	0 - 6	6 - 12	12 - 24	24 - 36	0 - 6	6 - 12	12 - 20	20 - 24	24 - 30	0 - 6	6 - 12	12 - 21	21 - 24
Date Collected:		10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12
Location ID:	Units	OTBS-15	OTBS-22	OTBS-22	OTBS-22	OTBS-22	OTBS-30	OTBS-30	OTBS-30	OTBS-30	OTBS-30	OTBS-31	OTBS-31	OTBS-31	OTBS-31
PCB Aroclors															
Aroclor-1016	mg/kg	0.033 U	1.4 U	1.8 U	0.025 U	0.030 U	0.11 U	0.14 U	0.10 U	0.027 U	0.023 U	0.061 U	0.026 U	0.021 U	0.021 U
Aroclor-1221	mg/kg	0.033 U	1.4 U	1.8 U	0.025 U	0.030 U	0.11 U	0.14 U	0.10 U	0.027 U	0.023 U	0.061 U	0.026 U	0.021 U	0.021 U
Aroclor-1232	mg/kg	0.033 U	1.4 U	1.8 U	0.025 U	0.030 U	0.11 U	0.14 U	0.10 U	0.027 U	0.023 U	0.061 U	0.026 U	0.021 U	0.021 U
Aroclor-1242	mg/kg	0.033 U	1.4 U	1.8 U	0.025 U	0.030 U	0.11 U	0.14 U	0.10 U	0.027 U	0.023 U	0.061 U	0.026 U	0.021 U	0.021 U
Aroclor-1248	mg/kg	0.033 U	4.4	3.9 J	0.10	0.030 U	0.47	0.73	0.60	0.11	0.019 J	0.26	0.017 J	0.021 U	0.021 U
Aroclor-1254	mg/kg	0.033 U	5.7	12	0.16	0.030 U	0.60	1.1	0.84	0.17	0.030	0.67	0.043	0.021 U	0.022
Aroclor-1260	mg/kg	0.033 U	0.86 J	2.0	0.026	0.030 U	0.14	0.22	0.15	0.031	0.0036 J	0.18	0.013 J	0.021 U	0.0075 J
Total PCBs	mg/kg	0.033 U	11 J	18 J	0.29	0.030 U	1.2	2.1	1.6	0.31	0.053 J	1.1	0.073 J	0.021 U	0.030 J
Miscellaneous															
Percent Solids	%	51.8	61.3	48.6	71.9	59.6	45.8	59.6	63	65.1	77.1	57.6	66	79.3	79.1
TOC															
Total Organic Carbon	mg/kg	NA	75,500	NA	NA	NA	72,400	NA	NA	NA	NA	84,500	NA	NA	NA
Grain Size Analysis															
Sand, percent	%	NA	32.5	NA	NA	NA	51.8	NA	NA	NA	NA	47.5	NA	NA	NA
Gravel	%	NA	0.1	NA	NA	NA	0.8	NA	NA	NA	NA	0	NA	NA	NA
Coarse Sand	%	NA	0.2	NA	NA	NA	1.5	NA	NA	NA	NA	0	NA	NA	NA
Medium Sand	%	NA	1.6	NA	NA	NA	3.6	NA	NA	NA	NA	2.4	NA	NA	NA
Fine Sand	%	NA	30.7	NA	NA	NA	46.7	NA	NA	NA	NA	45.1	NA	NA	NA
Silt	%	NA	54.1	NA	NA	NA	35.8	NA	NA	NA	NA	40.8	NA	NA	NA
Clay	%	NA	13.3	NA	NA	NA	11.6	NA	NA	NA	NA	11.7	NA	NA	NA
Sieve, 3 inch	% passing	NA	100 (75000)	NA	NA	NA	100 (75000)	NA	NA	NA	NA	100 (75000)	NA	NA	NA
Sieve, 2 inch	% passing	NA	100 (50000)	NA	NA	NA	100 (50000)	NA	NA	NA	NA	100 (50000)	NA	NA	NA
Sieve, 1.5 inch	% passing	NA	100 (37500)	NA	NA	NA	100 (37500)	NA	NA	NA	NA	100 (37500)	NA	NA	NA
Sieve, 1 inch	% passing	NA	100 (25000)	NA	NA	NA	100 (25000)	NA	NA	NA	NA	100 (25000)	NA	NA	NA
Sieve, 3/4 inch	% passing	NA	100 (19000)	NA	NA	NA	100 (19000)	NA	NA	NA	NA	100 (19000)	NA	NA	NA
Sieve, 3/8 inch	% passing	NA	100 (9500)	NA	NA	NA	100 (9500)	NA	NA	NA	NA	100 (9500)	NA	NA	NA
Sieve, #4	% passing	NA	99.9 (4750)	NA	NA	NA	99.2 (4750)	NA	NA	NA	NA	100 (4750)	NA	NA	NA
Sieve, #10	% passing	NA	99.7 (2000)	NA	NA	NA	97.7 (2000)	NA	NA	NA	NA	100 (2000)	NA	NA	NA
Sieve, #20	% passing	NA	98.9 (850)	NA	NA	NA	95.7 (850)	NA	NA	NA	NA	99.1 (850)	NA	NA	NA
Sieve, #40	% passing	NA	98.1 (425)	NA	NA	NA	94.1 (425)	NA	NA	NA	NA	97.6 (425)	NA	NA	NA
Sieve, #60	% passing	NA	95.5 (250)	NA	NA	NA	93.1 (250)	NA	NA	NA	NA	89.1 (250)	NA	NA	NA
Sieve, #80	% passing	NA	89 (180)	NA	NA	NA	82.8 (180)	NA	NA	NA	NA	74.8 (180)	NA	NA	NA
Sieve, #100	% passing	NA	83.3 (150)	NA	NA	NA	72.8 (150)	NA	NA	NA	NA	65.7 (150)	NA	NA	NA
Sieve, #200	% passing	NA	67.4 (75)	NA	NA	NA	47.4 (75)	NA	NA	NA	NA	52.5 (75)	NA	NA	NA
Hydrometer Reading 1	% passing	NA	28.4 (33.6)	NA	NA	NA	20.6 (34.8)	NA	NA	NA	NA	23.8 (33.4)	NA	NA	NA
Hydrometer Reading 2	% passing	NA	24.3 (21.6)	NA	NA	NA	17.6 (22.2)	NA	NA	NA	NA	20.5 (21.5)	NA	NA	NA
Hydrometer Reading 3	% passing	NA	20.1 (12.6)	NA	NA	NA	14.6 (13)	NA	NA	NA	NA	16.1 (12.6)	NA	NA	NA
Hydrometer Reading 4	% passing	NA	16 (9.1)	NA	NA	NA	13.1 (9.4)	NA	NA	NA	NA	15 (9.1)	NA	NA	NA
Hydrometer Reading 5	% passing	NA	13.3 (6.6)	NA	NA	NA	11.6 (6.4)	NA	NA	NA	NA	11.7 (6.3)	NA	NA	NA
Hydrometer Reading 6	% passing	NA	10.1 (3.2)	NA	NA	NA	8.1 (3.3)	NA	NA	NA	NA	8.1 (3.2)	NA	NA	NA
Hydrometer Reading 7	% passing	NA	7.1 (1.4)	NA	NA	NA	6.3 (1.4)	NA	NA	NA	NA	5.7 (1.4)	NA	NA	NA

See Notes on Page 6.

Table 2 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Soil Sample Analytical Results Received in December 2012

Sample Name:		K28612	K28613 [K28614]	K28615	K28616	K28617	K28618	K28619	K28620	K28621 [K28622]	K28623	K28624	K28625
Sample Depth(in):		24 - 36	0 - 6	6 - 14	14 - 27	27 - 36	55 - 60	0 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60
Date Collected:		10/19/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Location ID:	Units	OTBS-31	OFP-076	OFP-076	OFP-076	OFP-076	OFP-076	OFP-077	OFP-077	OFP-077	OFP-077	OFP-077	OFP-077
PCB Aroclors													
Aroclor-1016	mg/kg	0.021 U	0.022 U [0.022 U]	0.024 U	0.19 U	4.9 U	0.18 U	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Aroclor-1221	mg/kg	0.021 U	0.022 U [0.022 U]	0.024 U	0.19 U	4.9 U	0.18 U	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Aroclor-1232	mg/kg	0.021 U	0.022 U [0.022 U]	0.024 U	0.19 U	4.9 U	0.18 U	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Aroclor-1242	mg/kg	0.021 U	0.044 J [0.060 J]	0.11 J	1.0	32	1.1	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Aroclor-1248	mg/kg	0.021 U	0.022 U [0.022 U]	0.024 U	0.19 U	4.9 U	0.18 U	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Aroclor-1254	mg/kg	0.021 U	0.047 J [0.077 J]	0.081 J	0.60	7.0	0.24	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Aroclor-1260	mg/kg	0.021 U	0.012 J [0.012 J]	0.015 J	0.14 J	1.1 J	0.038 J	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Total PCBs	mg/kg	0.021 U	0.10 J [0.15 J]	0.21 J	1.7 J	40 J	1.4 J	0.020 U	0.017 U	0.020 U [0.020 U]	0.026 U	0.026 U	0.024 U
Miscellaneous													
Percent Solids	%	83.2	74.1 [75.7]	70.8	44.8	35.6	91.3	86.2	92.8	84.3 [84.9]	66.5	63.3	71.4
TOC													
Total Organic Carbon	mg/kg	NA	9,600 [9860]	NA	NA	NA	NA	57,000	NA	NA	NA	NA	NA
Grain Size Analysis													
Sand, percent	%	NA	96.7 [96.6]	NA	NA	NA	NA	47.1	NA	NA	NA	NA	NA
Gravel	%	NA	0.1 [0.2]	NA	NA	NA	NA	39.8	NA	NA	NA	NA	NA
Coarse Sand	%	NA	0.1 [0.1]	NA	NA	NA	NA	16.7	NA	NA	NA	NA	NA
Medium Sand	%	NA	1.1 [1.0]	NA	NA	NA	NA	14.6	NA	NA	NA	NA	NA
Fine Sand	%	NA	95.5 [95.5]	NA	NA	NA	NA	15.8	NA	NA	NA	NA	NA
Silt	%	NA	1.6 [1.5]	NA	NA	NA	NA	9.8	NA	NA	NA	NA	NA
Clay	%	NA	1.7 [1.7]	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA
Sieve, 3 inch	% passing	NA	100 (75000) [100 (75000)]	NA	NA	NA	NA	100 (75000)	NA	NA	NA	NA	NA
Sieve, 2 inch	% passing	NA	100 (50000) [100 (50000)]	NA	NA	NA	NA	100 (50000)	NA	NA	NA	NA	NA
Sieve, 1.5 inch	% passing	NA	100 (37500) [100 (37500)]	NA	NA	NA	NA	100 (37500)	NA	NA	NA	NA	NA
Sieve, 1 inch	% passing	NA	100 (25000) [100 (25000)]	NA	NA	NA	NA	100 (25000)	NA	NA	NA	NA	NA
Sieve, 3/4 inch	% passing	NA	100 (19000) [100 (19000)]	NA	NA	NA	NA	100 (19000)	NA	NA	NA	NA	NA
Sieve, 3/8 inch	% passing	NA	100 (9500) [100 (9500)]	NA	NA	NA	NA	83.3 (9500)	NA	NA	NA	NA	NA
Sieve, #4	% passing	NA	99.9 (4750) [99.8 (4750)]	NA	NA	NA	NA	60.2 (4750)	NA	NA	NA	NA	NA
Sieve, #10	% passing	NA	99.8 (2000) [99.7 (2000)]	NA	NA	NA	NA	43.5 (2000)	NA	NA	NA	NA	NA
Sieve, #20	% passing	NA	99.7 (850) [99.7 (850)]	NA	NA	NA	NA	35.9 (850)	NA	NA	NA	NA	NA
Sieve, #40	% passing	NA	98.7 (425) [98.7 (425)]	NA	NA	NA	NA	28.9 (425)	NA	NA	NA	NA	NA
Sieve, #60	% passing	NA	77.9 (250) [77.6 (250)]	NA	NA	NA	NA	20.2 (250)	NA	NA	NA	NA	NA
Sieve, #80	% passing	NA	39.8 (180) [39.5 (180)]	NA	NA	NA	NA	16.5 (180)	NA	NA	NA	NA	NA
Sieve, #100	% passing	NA	20.4 (150) [20 (150)]	NA	NA	NA	NA	15.1 (150)	NA	NA	NA	NA	NA
Sieve, #200	% passing	NA	3.2 (75) [3.2 (75)]	NA	NA	NA	NA	13.1 (75)	NA	NA	NA	NA	NA
Hydrometer Reading 1	% passing	NA	3.1 (36.3) [2.7 (36.3)]	NA	NA	NA	NA	5.6 (35.3)	NA	NA	NA	NA	NA
Hydrometer Reading 2	% passing	NA	3.1 (23) [2.2 (23)]	NA	NA	NA	NA	5.1 (22.4)	NA	NA	NA	NA	NA
Hydrometer Reading 3	% passing	NA	1.7 (13.5) [2.2 (13.5)]	NA	NA	NA	NA	4.2 (13.1)	NA	NA	NA	NA	NA
Hydrometer Reading 4	% passing	NA	1.7 (9.5) [1.7 (9.5)]	NA	NA	NA	NA	3.4 (9.2)	NA	NA	NA	NA	NA
Hydrometer Reading 5	% passing	NA	1.7 (6.9) [1.7 (6.9)]	NA	NA	NA	NA	3.4 (6.8)	NA	NA	NA	NA	NA
Hydrometer Reading 6	% passing	NA	1.2 (3.3) [1.2 (3.3)]	NA	NA	NA	NA	2 (3.4)	NA	NA	NA	NA	NA
Hydrometer Reading 7	% passing	NA	0.7 (1.4) [0.7 (1.4)]	NA	NA	NA	NA	1.1 (1.4)	NA	NA	NA	NA	NA

See Notes on Page 6.

Table 2 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Soil Sample Analytical Results Received in December 2012

Notes:
J - Indicates an estimated value.
JN - The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
mg/kg - milligrams per kilograms.
NA - Not applicable.
PCB - polychlorinated biphenyl.
TOC - total organic carbon.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Samples are analyzed by TestAmerica Laboratories, Inc.
Duplicate results are in brackets.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #72, February 2013

Table 3 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Sediment Sample Analytical Results Received in December 2012

Sample Name:		K57661	K57893 [K57894]	K57895	K57896	K57897	K57898	K57899	K57900	K57901	K57902
Sample Depth(in):		24 - 31	0 - 2	2 - 6	6 - 12	0 - 2	2 - 7	0 - 2	2 - 5	5 - 12	12 - 16
Date Collected:		07/12/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Location ID:	Units	OSED-06	ORT-22 (0+05)	ORT-22 (0+05)	ORT-22 (0+05)	ORT-23 (0+05)	ORT-23 (0+05)	ORT-23 (1+68)	ORT-23 (1+68)	ORT-23 (1+68)	ORT-23 (1+68)
PCB Aroclors											
Aroclor-1016	mg/kg	0.038 U	0.046 U [0.024 U]	0.024 U	0.047 U	0.079 U	0.028 U	0.034 U	0.026 U	0.021 U	0.020 U
Aroclor-1221	mg/kg	0.038 U	0.046 U [0.024 U]	0.024 U	0.047 U	0.079 U	0.028 U	0.034 U	0.026 U	0.021 U	0.020 U
Aroclor-1232	mg/kg	0.038 U	0.046 U [0.024 U]	0.024 U	0.047 U	0.079 U	0.028 U	0.034 U	0.026 U	0.021 U	0.020 U
Aroclor-1242	mg/kg	0.029 J	0.046 U [0.024 U]	0.024 U	0.047 U	0.079 U	0.028 U	0.039	0.029	0.021 U	0.020 U
Aroclor-1248	mg/kg	0.038 U	0.26 J [0.10 J]	0.19 J	0.33	0.53	0.12	0.034 U	0.026 U	0.021 U	0.020 U
Aroclor-1254	mg/kg	0.038 U	0.26 J [0.10 J]	0.15 J	0.33	0.59	0.12	0.055	0.038	0.021 U	0.020 U
Aroclor-1260	mg/kg	0.038 U	0.050 [0.022 J]	0.027 J	0.059	0.12	0.032	0.012 J	0.0072 J	0.021 U	0.020 U
Total PCBs	mg/kg	0.029 J	0.57 J [0.22 J]	0.37 J	0.72	1.2	0.27	0.11 J	0.074 J	0.021 U	0.020 U
Miscellaneous											
Percent Solids	%	46.9	74.5 [72.3]	75	71.8	65.1	62.6	50	65.6	84	81.8
TOC											
Total Organic Carbon	mg/kg	NA	5,430 [5,790]	NA	NA	26,800	NA	34,900	NA	NA	NA
Grain Size Analysis											
Sand, percent	%	NA	93.3 [93.1]	NA	NA	78.4	NA	11.6	NA	NA	NA
Gravel	%	NA	0.2 [0.2]	NA	NA	5.2	NA	84.5	NA	NA	NA
Coarse Sand	%	NA	0.1 [0.2]	NA	NA	1.4	NA	1.8	NA	NA	NA
Medium Sand	%	NA	0.3 [0.4]	NA	NA	1.6	NA	2.2	NA	NA	NA
Fine Sand	%	NA	92.9 [92.5]	NA	NA	75.4	NA	7.6	NA	NA	NA
Silt	%	NA	4.1 [4.8]	NA	NA	12	NA	3.4	NA	NA	NA
Clay	%	NA	2.4 [1.9]	NA	NA	4.4	NA	0.5	NA	NA	NA
Sieve, 3 inch	% passing	NA	100 (75000) [100 (75000)]	NA	NA	100 (75000)	NA	100 (75000)	NA	NA	NA
Sieve, 2 inch	% passing	NA	100 (50000) [100 (50000)]	NA	NA	100 (50000)	NA	100 (50000)	NA	NA	NA
Sieve, 1.5 inch	% passing	NA	100 (37500) [100 (37500)]	NA	NA	100 (37500)	NA	82.1 (37500)	NA	NA	NA
Sieve, 1 inch	% passing	NA	100 (25000) [100 (25000)]	NA	NA	100 (25000)	NA	55.6 (25000)	NA	NA	NA
Sieve, 3/4 inch	% passing	NA	100 (19000) [100 (19000)]	NA	NA	100 (19000)	NA	42.7 (19000)	NA	NA	NA
Sieve, 3/8 inch	% passing	NA	100 (9500) [100 (9500)]	NA	NA	95.3 (9500)	NA	18.3 (9500)	NA	NA	NA
Sieve, #4	% passing	NA	99.8 (4750) [99.8 (4750)]	NA	NA	94.8 (4750)	NA	15.5 (4750)	NA	NA	NA
Sieve, #10	% passing	NA	99.7 (2000) [99.6 (2000)]	NA	NA	93.4 (2000)	NA	13.7 (2000)	NA	NA	NA
Sieve, #20	% passing	NA	99.7 (850) [99.5 (850)]	NA	NA	92.9 (850)	NA	12.9 (850)	NA	NA	NA
Sieve, #40	% passing	NA	99.4 (425) [99.2 (425)]	NA	NA	91.8 (425)	NA	11.5 (425)	NA	NA	NA
Sieve, #60	% passing	NA	93.5 (250) [93.7 (250)]	NA	NA	85.1 (250)	NA	9.4 (250)	NA	NA	NA
Sieve, #80	% passing	NA	64.4 (180) [64.1 (180)]	NA	NA	65.3 (180)	NA	7.2 (180)	NA	NA	NA
Sieve, #100	% passing	NA	35.4 (150) [34.1 (150)]	NA	NA	47.1 (150)	NA	5.7 (150)	NA	NA	NA
Sieve, #200	% passing	NA	6.5 (75) [6.7 (75)]	NA	NA	16.4 (75)	NA	3.9 (75)	NA	NA	NA
Hydrometer Reading 1	% passing	NA	3.9 (36.5) [3 (36.8)]	NA	NA	7.8 (35.8)	NA	1.2 (36.6)	NA	NA	NA
Hydrometer Reading 2	% passing	NA	3.9 (23.1) [3 (23.3)]	NA	NA	7.1 (22.7)	NA	1 (23.3)	NA	NA	NA
Hydrometer Reading 3	% passing	NA	3.4 (13.4) [3 (13.4)]	NA	NA	6.4 (13.2)	NA	0.8 (13.5)	NA	NA	NA
Hydrometer Reading 4	% passing	NA	2.9 (9.7) [2.5 (9.4)]	NA	NA	5.1 (9.4)	NA	0.7 (9.4)	NA	NA	NA
Hydrometer Reading 5	% passing	NA	2.4 (6.6) [1.9 (6.8)]	NA	NA	4.4 (6.5)	NA	0.5 (6.9)	NA	NA	NA
Hydrometer Reading 6	% passing	NA	1.9 (3.3) [2 (3.4)]	NA	NA	2.5 (3.4)	NA	0.5 (3.4)	NA	NA	NA
Hydrometer Reading 7	% passing	NA	1.8 (1.4) [1.3 (1.4)]	NA	NA	1.7 (1.4)	NA	0.3 (1.4)	NA	NA	NA

See Notes on Page 6.

Table 3 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Sediment Sample Analytical Results Received in December 2012

Sample Name:		K57903	K57904	K57905	K57906	K57907	K57908	K57909	K57910	K57911	K57912
Sample Depth(in):		0 - 2	2 - 6	6 - 13	0 - 2	2 - 6	0 - 2	2 - 8	8 - 11	0 - 2	2 - 6
Date Collected:		10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Location ID:	Units	ORT-25 (0+10)	ORT-25 (0+10)	ORT-25 (0+10)	ORT-25 (1+25)	ORT-25 (1+25)	ORT-25 (1+48)	ORT-25 (1+48)	ORT-25 (1+48)	ORT-25 (1+72)	ORT-25 (1+72)
PCB Aroclors											
Aroclor-1016	mg/kg	0.021 U	0.021 U	0.022 U	0.021 U	0.019 U	0.26 U	0.021 U	0.021 U	0.023 U	0.024 U
Aroclor-1221	mg/kg	0.021 U	0.021 U	0.022 U	0.021 U	0.019 U	0.26 U	0.021 U	0.021 U	0.023 U	0.024 U
Aroclor-1232	mg/kg	0.021 U	0.021 U	0.022 U	0.021 U	0.019 U	0.26 U	0.021 U	0.021 U	0.023 U	0.024 U
Aroclor-1242	mg/kg	0.021	0.021 U	0.022 U	0.011 J	0.0084 J	0.54	0.021 U	0.021 U	0.044	0.13
Aroclor-1248	mg/kg	0.021 U	0.021 U	0.022 U	0.021 U	0.019 U	0.26 U	0.021 U	0.11	0.023 U	0.024 U
Aroclor-1254	mg/kg	0.016 J	0.021 U	0.022 U	0.012 J	0.0060 J	0.25 J	0.043	0.10	0.046	0.083
Aroclor-1260	mg/kg	0.0059 J	0.021 U	0.022 U	0.021 U	0.019 U	3.3	0.021 U	0.014 J	0.0085 J	0.014 J
Total PCBs	mg/kg	0.043 J	0.021 U	0.022 U	0.023 J	0.014 J	4.1 J	0.043	0.22 J	0.099 J	0.23 J
Miscellaneous											
Percent Solids	%	85	83.3	82.8	81.4	89.9	66.5	82.4	83.9	71.9	72.9
TOC											
Total Organic Carbon	mg/kg	3,940	NA	NA	8,070	NA	20,100	NA	NA	4,650	NA
Grain Size Analysis											
Sand, percent	%	43.5	NA	NA	20.6	NA	61.2	NA	NA	94.6	NA
Gravel	%	55.2	NA	NA	74.6	NA	36.7	NA	NA	0	NA
Coarse Sand	%	6.7	NA	NA	5.5	NA	1.3	NA	NA	0.1	NA
Medium Sand	%	9.3	NA	NA	7.5	NA	1.3	NA	NA	0.9	NA
Fine Sand	%	27.5	NA	NA	7.6	NA	58.6	NA	NA	93.6	NA
Silt	%	0.7	NA	NA	4.5	NA	1.1	NA	NA	3.6	NA
Clay	%	0.6	NA	NA	0.3	NA	1	NA	NA	1.8	NA
Sieve, 3 inch	% passing	100 (75000)	NA	NA	100 (75000)	NA	100 (75000)	NA	NA	100 (75000)	NA
Sieve, 2 inch	% passing	100 (50000)	NA	NA	100 (50000)	NA	100 (50000)	NA	NA	100 (50000)	NA
Sieve, 1.5 inch	% passing	100 (37500)	NA	NA	79.9 (37500)	NA	100 (37500)	NA	NA	100 (37500)	NA
Sieve, 1 inch	% passing	71 (25000)	NA	NA	53.8 (25000)	NA	100 (25000)	NA	NA	100 (25000)	NA
Sieve, 3/4 inch	% passing	62.3 (19000)	NA	NA	41.7 (19000)	NA	83.4 (19000)	NA	NA	100 (19000)	NA
Sieve, 3/8 inch	% passing	53.5 (9500)	NA	NA	33.4 (9500)	NA	64.9 (9500)	NA	NA	100 (9500)	NA
Sieve, #4	% passing	44.8 (4750)	NA	NA	25.4 (4750)	NA	63.3 (4750)	NA	NA	100 (4750)	NA
Sieve, #10	% passing	38.1 (2000)	NA	NA	19.9 (2000)	NA	62 (2000)	NA	NA	99.9 (2000)	NA
Sieve, #20	% passing	35.2 (850)	NA	NA	17.2 (850)	NA	61.6 (850)	NA	NA	99.8 (850)	NA
Sieve, #40	% passing	28.8 (425)	NA	NA	12.4 (425)	NA	60.7 (425)	NA	NA	99 (425)	NA
Sieve, #60	% passing	19.7 (250)	NA	NA	6.7 (250)	NA	54.4 (250)	NA	NA	93.7 (250)	NA
Sieve, #80	% passing	10.3 (180)	NA	NA	5.3 (180)	NA	30.2 (180)	NA	NA	74.2 (180)	NA
Sieve, #100	% passing	5.8 (150)	NA	NA	5.1 (150)	NA	12.6 (150)	NA	NA	47.5 (150)	NA
Sieve, #200	% passing	1.3 (75)	NA	NA	4.8 (75)	NA	2.1 (75)	NA	NA	5.4 (75)	NA
Hydrometer Reading 1	% passing	0.9 (37.1)	NA	NA	0.5	NA	2.1 (36.8)	NA	NA	3.4 (36.6)	NA
Hydrometer Reading 2	% passing	0.9	NA	NA	0.5	NA	1.7 (23.4)	NA	NA	2.9 (23.3)	NA
Hydrometer Reading 3	% passing	0.9 (13.6)	NA	NA	0.5 (13.6)	NA	1.7 (13.5)	NA	NA	2.9 (13.4)	NA
Hydrometer Reading 4	% passing	0.6 (9.5)	NA	NA	0.3 (9.4)	NA	1.3 (9.6)	NA	NA	1.8 (9.6)	NA
Hydrometer Reading 5	% passing	0.6 (6.9)	NA	NA	0.3 (6.8)	NA	1 (6.6)	NA	NA	1.8 (7)	NA
Hydrometer Reading 6	% passing	0.4 (3.2)	NA	NA	0.3 (3.3)	NA	0.6 (3.3)	NA	NA	1.4 (3.3)	NA
Hydrometer Reading 7	% passing	0.4 (1.4)	NA	NA	0.3 (1.4)	NA	0.6 (1.4)	NA	NA	1.3 (1.4)	NA

See Notes on Page 6.

Table 3 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Sediment Sample Analytical Results Received in December 2012

Sample Name:		K57913	K57914	K57915	K57916	K57917	K57918	K57919	K57920	K57921	K57922
Sample Depth(in):		6 - 10	0 - 2	2 - 6	6 - 10	10 - 12	0 - 2	2 - 6	6 - 13	0 - 2	2 - 6
Date Collected:		10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Location ID:	Units	ORT-25 (1+72)	ORT-26 (0+05)	ORT-26 (0+05)	ORT-26 (0+05)	ORT-26 (0+05)	ORT-26 (0+10)	ORT-26 (0+10)	ORT-26 (0+10)	ORT-26 (1+67)	ORT-26 (1+67)
PCB Aroclors											
Aroclor-1016	mg/kg	0.022 U	0.024 U	0.022 U	0.021 U	0.019 U	0.031 U	0.023 U	0.022 U	0.61 U	0.29 U
Aroclor-1221	mg/kg	0.022 U	0.024 U	0.022 U	0.021 U	0.019 U	0.031 U	0.023 U	0.022 U	0.61 U	0.29 U
Aroclor-1232	mg/kg	0.022 U	0.024 U	0.022 U	0.021 U	0.019 U	0.031 U	0.023 U	0.022 U	0.61 U	0.29 U
Aroclor-1242	mg/kg	0.11	0.056	0.019 J	0.021 U	0.019 U	0.085	0.011 J	0.022 U	5.8	1.9
Aroclor-1248	mg/kg	0.022 U	0.024 U	0.022 U	0.021 U	0.019 U	0.031 U	0.023 U	0.022 U	0.61 U	0.29 U
Aroclor-1254	mg/kg	0.13	0.10	0.027	0.021 U	0.019 U	0.090	0.0099 J	0.022 U	2.0	1.6
Aroclor-1260	mg/kg	0.021 J	0.013 J	0.0036 J	0.021 U	0.019 U	0.022 J	0.023 U	0.022 U	0.35 J	0.21 J
Total PCBs	mg/kg	0.26 J	0.17 J	0.050 J	0.021 U	0.019 U	0.20 J	0.021 J	0.022 U	8.2 J	3.7 J
Miscellaneous											
Percent Solids	%	77.3	68	75.9	81.2	90.6	57.1	76.7	81.5	55.7	58.8
TOC											
Total Organic Carbon	mg/kg	NA	7,920	NA	NA	NA	24,500	NA	NA	58,400	NA
Grain Size Analysis											
Sand, percent	%	NA	70.9	NA	NA	NA	25.8	NA	NA	18.8	NA
Gravel	%	NA	26.6	NA	NA	NA	72.5	NA	NA	69.3	NA
Coarse Sand	%	NA	3.3	NA	NA	NA	4.7	NA	NA	3.2	NA
Medium Sand	%	NA	14.7	NA	NA	NA	3.7	NA	NA	4.3	NA
Fine Sand	%	NA	52.9	NA	NA	NA	17.4	NA	NA	11.3	NA
Silt	%	NA	1.2	NA	NA	NA	1.2	NA	NA	6.5	NA
Clay	%	NA	1.4	NA	NA	NA	0.5	NA	NA	5.4	NA
Sieve, 3 inch	% passing	NA	100 (75000)	NA	NA	NA	100 (75000)	NA	NA	100 (75000)	NA
Sieve, 2 inch	% passing	NA	100 (50000)	NA	NA	NA	100 (50000)	NA	NA	100 (50000)	NA
Sieve, 1.5 inch	% passing	NA	100 (37500)	NA	NA	NA	100 (37500)	NA	NA	100 (37500)	NA
Sieve, 1 inch	% passing	NA	100 (25000)	NA	NA	NA	47.2 (25000)	NA	NA	61.3 (25000)	NA
Sieve, 3/4 inch	% passing	NA	100 (19000)	NA	NA	NA	43.3 (19000)	NA	NA	44.8 (19000)	NA
Sieve, 3/8 inch	% passing	NA	80.7 (9500)	NA	NA	NA	33.3 (9500)	NA	NA	35.1 (9500)	NA
Sieve, #4	% passing	NA	73.4 (4750)	NA	NA	NA	27.5 (4750)	NA	NA	30.7 (4750)	NA
Sieve, #10	% passing	NA	70.1 (2000)	NA	NA	NA	22.8 (2000)	NA	NA	27.5 (2000)	NA
Sieve, #20	% passing	NA	67.9 (850)	NA	NA	NA	21.2 (850)	NA	NA	25.6 (850)	NA
Sieve, #40	% passing	NA	55.4 (425)	NA	NA	NA	19.1 (425)	NA	NA	23.2 (425)	NA
Sieve, #60	% passing	NA	24.3 (250)	NA	NA	NA	14.7 (250)	NA	NA	19.5 (250)	NA
Sieve, #80	% passing	NA	12.4 (180)	NA	NA	NA	8.8 (180)	NA	NA	15.9 (180)	NA
Sieve, #100	% passing	NA	7.5 (150)	NA	NA	NA	5 (150)	NA	NA	14.1 (150)	NA
Sieve, #200	% passing	NA	2.5 (75)	NA	NA	NA	1.7 (75)	NA	NA	11.9 (75)	NA
Hydrometer Reading 1	% passing	NA	2.2 (36.8)	NA	NA	NA	0.8 (36.9)	NA	NA	9.8 (34.4)	NA
Hydrometer Reading 2	% passing	NA	2.2 (23.3)	NA	NA	NA	0.8 (23.3)	NA	NA	8.7 (22)	NA
Hydrometer Reading 3	% passing	NA	2.2 (13.4)	NA	NA	NA	0.8 (13.5)	NA	NA	7.1 (12.9)	NA
Hydrometer Reading 4	% passing	NA	1.4 (9.4)	NA	NA	NA	0.6 (9.6)	NA	NA	6.1 (9.2)	NA
Hydrometer Reading 5	% passing	NA	1.4 (7)	NA	NA	NA	0.5 (6.9)	NA	NA	5.4 (6.7)	NA
Hydrometer Reading 6	% passing	NA	0.6 (3.4)	NA	NA	NA	0.5 (3.3)	NA	NA	4.4 (3.2)	NA
Hydrometer Reading 7	% passing	NA	0.6 (1.4)	NA	NA	NA	0.5 (1.4)	NA	NA	3.3 (1.4)	NA

See Notes on Page 6.

Table 3 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Sediment Sample Analytical Results Received in December 2012

Sample Name:		K57923 [K57924]	K57925	K57926	K57927	K57928	K57929	K57930	K57931	K57932	K57933
Sample Depth(in):		6 - 12	0 - 2	2 - 6	0 - 2	2 - 6	6 - 12	12 - 15	15 - 19	19 - 22	22 - 24
Date Collected:		10/24/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Location ID:	Units	ORT-26 (1+67)	ORT-18 (0+05)	ORT-18 (0+05)	ORT-18 (1+48)	ORT-18 (1+48)	ORT-18 (1+48)	ORT-18 (1+48)	ORT-18 (1+48)	ORT-18 (1+48)	ORT-18 (1+48)
PCB Aroclors											
Aroclor-1016	mg/kg	0.34 U [0.37 U]	0.021 U	0.022 U	0.59 U	0.36 U	0.30 U	0.59 U	0.86 U	0.047 U	0.024 U
Aroclor-1221	mg/kg	0.34 U [0.37 U]	0.021 U	0.022 U	0.59 U	0.36 U	0.30 U	0.59 U	0.86 U	0.047 U	0.024 U
Aroclor-1232	mg/kg	0.34 U [0.37 U]	0.021 U	0.022 U	0.59 U	0.36 U	0.30 U	0.59 U	0.86 U	0.047 U	0.024 U
Aroclor-1242	mg/kg	1.1 [1.2]	0.021 U	0.022 U	1.0	0.91	0.76	2.1	4.7	0.29	0.014 J
Aroclor-1248	mg/kg	0.34 U [0.37 U]	0.021 U	0.022 U	0.59 U	0.36 U	0.30 U	0.59 U	0.86 U	0.047 U	0.024 U
Aroclor-1254	mg/kg	1.2 [1.3]	0.011 J	0.022 U	1.8	1.5	1.2	2.9	4.0	0.10	0.024 U
Aroclor-1260	mg/kg	0.20 J [0.21 J]	0.021 U	0.022 U	0.34 J	0.28 J	0.21 J	0.51 J	0.75 J	0.047 U	0.024 U
Total PCBs	mg/kg	2.5 J [2.7 J]	0.011 J	0.022 U	3.1 J	2.7 J	2.2 J	5.5 J	9.5 J	0.39	0.014 J
Miscellaneous											
Percent Solids	%	49.8 [48.2]	79.3	78.1	57.5	47.6	56	57	61.1	35.6	68.3
TOC											
Total Organic Carbon	mg/kg	NA	7,170	NA	37,700	NA	NA	NA	NA	NA	NA
Grain Size Analysis											
Sand, percent	%	NA	60	NA	83	NA	NA	NA	NA	NA	NA
Gravel	%	NA	31.9	NA	0.9	NA	NA	NA	NA	NA	NA
Coarse Sand	%	NA	3	NA	1.3	NA	NA	NA	NA	NA	NA
Medium Sand	%	NA	15.8	NA	4.9	NA	NA	NA	NA	NA	NA
Fine Sand	%	NA	41.2	NA	76.8	NA	NA	NA	NA	NA	NA
Silt	%	NA	5.6	NA	8.1	NA	NA	NA	NA	NA	NA
Clay	%	NA	2.5	NA	8	NA	NA	NA	NA	NA	NA
Sieve, 3 inch	% passing	NA	100 (75000)	NA	100 (75000)	NA	NA	NA	NA	NA	NA
Sieve, 2 inch	% passing	NA	100 (50000)	NA	100 (50000)	NA	NA	NA	NA	NA	NA
Sieve, 1.5 inch	% passing	NA	100 (37500)	NA	100 (37500)	NA	NA	NA	NA	NA	NA
Sieve, 1 inch	% passing	NA	74.7 (25000)	NA	100 (25000)	NA	NA	NA	NA	NA	NA
Sieve, 3/4 inch	% passing	NA	74.7 (19000)	NA	100 (19000)	NA	NA	NA	NA	NA	NA
Sieve, 3/8 inch	% passing	NA	71.8 (9500)	NA	99.4 (9500)	NA	NA	NA	NA	NA	NA
Sieve, #4	% passing	NA	68.1 (4750)	NA	99.1 (4750)	NA	NA	NA	NA	NA	NA
Sieve, #10	% passing	NA	65.1 (2000)	NA	97.8 (2000)	NA	NA	NA	NA	NA	NA
Sieve, #20	% passing	NA	61.1 (850)	NA	95.3 (850)	NA	NA	NA	NA	NA	NA
Sieve, #40	% passing	NA	49.3 (425)	NA	92.9 (425)	NA	NA	NA	NA	NA	NA
Sieve, #60	% passing	NA	33.3 (250)	NA	89 (250)	NA	NA	NA	NA	NA	NA
Sieve, #80	% passing	NA	23.4 (180)	NA	70.9 (180)	NA	NA	NA	NA	NA	NA
Sieve, #100	% passing	NA	17.4 (150)	NA	49.1 (150)	NA	NA	NA	NA	NA	NA
Sieve, #200	% passing	NA	8.1 (75)	NA	16.1 (75)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 1	% passing	NA	5.6 (35.3)	NA	15.7 (35.4)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 2	% passing	NA	5.2 (22.4)	NA	13.1 (22.6)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 3	% passing	NA	4.3 (13.1)	NA	13.1 (13.1)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 4	% passing	NA	3.5 (9.3)	NA	10.6 (9.3)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 5	% passing	NA	2.6 (6.5)	NA	8 (6.8)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 6	% passing	NA	1.7 (3.3)	NA	6.7 (3.3)	NA	NA	NA	NA	NA	NA
Hydrometer Reading 7	% passing	NA	1.4 (1.4)	NA	2.8 (1.4)	NA	NA	NA	NA	NA	NA

See Notes on Page 6.

Table 3 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Sediment Sample Analytical Results Received in December 2012

Sample Name:		K57934	K57935 [K57936]	K57937	K57938	K57939	K57940
Sample Depth(in):		0 - 2	2 - 6	6 - 8	0 - 2	2 - 7	7 - 12
Date Collected:		10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Location ID:	Units	ORT-20 (0+05)	ORT-20 (0+05)	ORT-20 (0+05)	ORT-20 (2+11)	ORT-20 (2+11)	ORT-20 (2+11)
PCB Aroclors							
Aroclor-1016	mg/kg	0.029 U	0.038 U [0.034 U]	0.078 U	0.024 U	0.033 U	0.020 U
Aroclor-1221	mg/kg	0.029 U	0.038 U [0.034 U]	0.078 U	0.024 U	0.033 U	0.020 U
Aroclor-1232	mg/kg	0.029 U	0.038 U [0.034 U]	0.078 U	0.024 U	0.033 U	0.020 U
Aroclor-1242	mg/kg	0.029 U	0.038 U [0.034 U]	0.078 U	0.024 U	0.033 U	0.020 U
Aroclor-1248	mg/kg	0.057	0.063 [0.065]	0.30	0.072	0.033 U	0.020 U
Aroclor-1254	mg/kg	0.043	0.052 [0.053]	0.36	0.071	0.033 U	0.020 U
Aroclor-1260	mg/kg	0.029 U	0.038 U [0.034 U]	0.078 U	0.046	0.033 U	0.020 U
Total PCBs	mg/kg	0.10	0.12 [0.12]	0.66	0.19	0.033 U	0.020 U
Miscellaneous							
Percent Solids	%	59.8	46.3 [50.5]	41.8	68.3	51.9	87.1
TOC							
Total Organic Carbon	mg/kg	32,400	NA	NA	15,700	NA	NA
Grain Size Analysis							
Sand, percent	%	85.8	NA	NA	76.4	NA	NA
Gravel	%	0.7	NA	NA	2.6	NA	NA
Coarse Sand	%	0.2	NA	NA	1.5	NA	NA
Medium Sand	%	3.9	NA	NA	10	NA	NA
Fine Sand	%	81.7	NA	NA	64.9	NA	NA
Silt	%	9.6	NA	NA	18.9	NA	NA
Clay	%	3.9	NA	NA	2.1	NA	NA
Sieve, 3 inch	% passing	100 (75000)	NA	NA	100 (75000)	NA	NA
Sieve, 2 inch	% passing	100 (50000)	NA	NA	100 (50000)	NA	NA
Sieve, 1.5 inch	% passing	100 (37500)	NA	NA	100 (37500)	NA	NA
Sieve, 1 inch	% passing	100 (25000)	NA	NA	100 (25000)	NA	NA
Sieve, 3/4 inch	% passing	100 (19000)	NA	NA	100 (19000)	NA	NA
Sieve, 3/8 inch	% passing	99.7 (9500)	NA	NA	100 (9500)	NA	NA
Sieve, #4	% passing	99.3 (4750)	NA	NA	97.4 (4750)	NA	NA
Sieve, #10	% passing	99.1 (2000)	NA	NA	95.9 (2000)	NA	NA
Sieve, #20	% passing	97.7 (850)	NA	NA	91.5 (850)	NA	NA
Sieve, #40	% passing	95.2 (425)	NA	NA	85.9 (425)	NA	NA
Sieve, #60	% passing	66.9 (250)	NA	NA	73.7 (250)	NA	NA
Sieve, #80	% passing	36.3 (180)	NA	NA	60.3 (180)	NA	NA
Sieve, #100	% passing	23 (150)	NA	NA	48.7 (150)	NA	NA
Sieve, #200	% passing	13.5 (75)	NA	NA	21 (75)	NA	NA
Hydrometer Reading 1	% passing	6.7 (35.4)	NA	NA	8.7 (36.1)	NA	NA
Hydrometer Reading 2	% passing	6.2 (22.5)	NA	NA	6.6 (23.1)	NA	NA
Hydrometer Reading 3	% passing	5.6 (13.1)	NA	NA	4.4 (13.4)	NA	NA
Hydrometer Reading 4	% passing	4.5 (9.3)	NA	NA	3.4 (9.4)	NA	NA
Hydrometer Reading 5	% passing	3.9 (6.5)	NA	NA	2.1 (7)	NA	NA
Hydrometer Reading 6	% passing	2.8 (3.4)	NA	NA	2.1 (3.4)	NA	NA
Hydrometer Reading 7	% passing	1.8 (1.4)	NA	NA	1.1 (1.4)	NA	NA

See Notes on Page 6.

Table 3 – Area 3/Former Otsego Impoundment 2012 SRI Sampling - Validated Sediment Sample Analytical Results Received in December 2012

Notes:
J - Indicates an estimated value.
mg/kg - milligrams per kilograms.
NA - Not applicable.
PCB - polychlorinated biphenyl.
TOC - total organic carbon.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Sample K57661 was collected from Pine Creek.
Samples are analyzed by TestAmerica Laboratories, Inc.
Duplicate results are in brackets.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table 4 – Former Plainwell Impoundment - Validated Soil Sample Analytical Results Received in December 2012

Sample Name: Location: Date Collected:	Units	RA10A_121712 North bank of gas pipeline exclusion zone - 5-part composite sample 12/17/12	RA10A_121812-01 North bank of gas pipeline exclusion zone - individual sample location 1 12/18/12	RA10A_121812-02 North bank of gas pipeline exclusion zone - individual sample location 2 12/18/12	RA10A_121812-03 North bank of gas pipeline exclusion zone - individual sample location 3 12/18/12	RA10A_121812-04 North bank of gas pipeline exclusion zone - individual sample location 4 12/18/12	RA10A_121812-05 North bank of gas pipeline exclusion zone - individual sample location 5 12/18/12
PCB Aroclors							
Aroclor-1016	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1221	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1232	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1242	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1248	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1254	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Aroclor-1260	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U
Total PCBs	ug/kg	330 U	330 U	330 U	330 U	330 U	330 U

Notes:
ug/kg - micrograms per kilograms.
PCB - polychlorinated biphenyl.
RA - Removal Area.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.