

July 19, 2016

Ms. Barbara Brown
Project Coordinator
Maryland Department of the Environment
1800 Washington Blvd.
Baltimore, MD 21230

Mr. Andrew Fan, PE
Project Coordinator
US EPA Region III, 3LC20
1650 Arch Street Philadelphia,
PA 19103-2029

Re:*TRADEPOINT ATLANTIC
TIN MILL CANAL SEDIMENT SAMPLING AND ANALYSIS PLAN, ADDENDUM*

Dear Ms. Brown and Mr. Fan:

On behalf of Tradepoint Atlantic and Sparrows Point LLC, enclosed please find an addendum to the Tin Mill Canal Sediment Sampling and Analysis Plan, Final that was previously approved on March 24, 2015 by U.S. EPA and MDE. A sampling plan addendum was also subsequently provided to document revised sampling procedures that was also approved by EPA and MDE (*Tin Mill Canal Sediment Sampling and Analysis Plan Addendum, dated 7/23/2015*). This submittal is being made in conjunction with the Administrative Consent Order (ACO) between Sparrows Point Terminal, LLC and the Maryland Department of the Environment (effective September 12, 2014) and the Settlement Agreement and Covenant Not to Sue (PPA) between Sparrows Point Terminal, LLC and the United States Environmental Protection Agency (effective November 25, 2014).

This document is an addendum to the approved work plan(s) that defines sampling and analysis procedures for further characterization of the TMC sediments to complete the following objectives:

- Provide further delineation of the extent of elevated polychlorinated biphenyl (PCB) compounds located between Transects 5-7,
- Recollect composite samples for semi-volatile compounds (SVOCs) at a number of transects for re-analysis to achieve lower laboratory reporting levels;
- Collect samples at several TMC locations where access was restricted during the previous sampling events.

This addendum is submitted for approval in conjunction with discussions of the proposed sampling effort discussed during the meeting with EPA and MDE held on April 21, 2016.

Please contact me at jcalenda@enviroanalyticsgroup.com should you have any questions and we look forward to your review of this information.

Sincerely,



James Calenda
Project Manager

cc: Michael Pedone, Tradepoint Atlantic
Randall Lutz, Saul Ewing LLP
Doug Dorgan, WCG
Russ Becker, EAG

Tin Mill Canal Sediment Sampling and Analysis Plan Supplemental Sampling and PCB Delineation Addendum

Background

EnviroAnalytics Group, LLC (EAG) submitted a work plan to sample and analyze the sediments within the Tin Mill Canal (TMC) at the Tradepoint Atlantic (former Sparrows Point Terminal, LLC) property that was approved by US EPA (EPA) and the Maryland Department of the Environment (MDE) on 03/24/2015 (*Tin Mill Canal Sediment Sampling and Analysis Plan, Final, dated 03/06/2015*). A sampling plan addendum was also subsequently provided to document revised sampling procedures that was also approved by EPA and MDE (*Tin Mill Canal Sediment Sampling and Analysis Plan Addendum, dated 7/23/2015*).

The sampling plans and associated data collection efforts were designed to evaluate the physical and chemical characteristics of materials deposited in the bottom of the canal. Characterization of these materials is required to support design planning for efforts to remediate the canal and remove collected materials for recycling or disposal. Data associated with these approved plans was collected from 16 transects along the length of the TMC and from 1 transect along the channelway from the Pori Lagoon area as shown in **Figure 1**. The transects were located approximately 500 feet apart along the length of the TMC.

This document is an addendum to the approved work plan(s) that defines sampling and analysis procedures for further characterization of the TMC sediments to complete the following objectives:

- Provide further delineation of the extent of elevated polychlorinated biphenyl (PCB) compounds located between Transects 5-7,
- Recollect composite samples for semi-volatile compounds (SVOCs) at a number of transects for re-analysis to achieve lower laboratory reporting levels;
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Sampling Plan

PCB Delineation

Results collected to date for total PCBs within the sediments of the TMC are included in **Table 1** and shown on **Figure 2**. Results for the PCB composite sample taken from the lower 12 inches of the sediment horizon; 2-4 feet from the sediment surface at Transect 6 (TM-SD-31) exhibited a concentration of Aroclor 1242 of 233 mg/kg. This concentration is an unusual outlier and is extremely elevated compared to the remainder of the PCB data for the TMC. Nearby samples recovered and analyzed for PCBs from Transects 5 and 7 in the lower 12 inches of the sediment horizon exhibited concentrations for total PCBs of 2.52 mg/kg and 8.13 mg/kg respectively. Samples recovered from the upper 12 inches of sediment from transects 5, 6 and 7 did not detect the presence of PCBs.

An additional 42 discrete sediment samples are proposed to be collected and analyzed for PCBs in order to delineate the extent of elevated PCB concentrations surrounding the TM-SD-31 location. These samples will be collected between Transects 5-7 from the top 12 inches and bottom 12 inches of the sediment horizon at 21 locations spaced approximately 50 feet apart. The proposed sample locations will be located through the centerline of the canal as shown on **Figure 3**.

SVOC Reanalysis

Results collected to date for SVOCs within the sediments of the TMC are included in **Table 1**. Laboratory results for SVOCs exhibited elevated reporting limits and associated non detections for composite samples recovered from the lower 12 inches of the sediment horizon at the following transects:

- Transect 6
- Transect 7
- Transect 8
- Transect 9
- Transect 10
- Transect 11
- Transect 12
- Transect 13
- Transect 14
- Transect 15
- Transect 16
- Transect 17

Based on feedback that was received from the laboratory, the elevated reporting limits for SVOCs were the result of matrix interference; specifically high moisture content and the presence of oil and grease.

Recollection of samples are proposed at these locations that will be analyzed for SVOCs in conjunction with specific laboratory methods utilized to provide lower reporting limits in impacted media with high moisture contents. These laboratory “clean up” methods will include acid cleaning, silica cleaning, GPC cleaning and running SIM; for which a trial was performed in April at the laboratory and acceptable reporting limits were achieved.

Inaccessible Sample Locations

Samples were not recovered at the following locations from Transects 11, 12 and 14 due to restricted access during the first two sampling events: TM-SD-54, TM-SD-56, TM-SD-57, TM-SD-59 and TM-SD-71. Access will be provided and sampling will be performed for the suite of analyses approved for the TMC characterization effort.

Sampling Procedures

The modified surge block sampling method described in the *Tin Mill Canal Sediment Sampling and Analysis Plan Addendum, dated 7/23/2015*) that was approved for use will be utilized for this sampling program. This method uses a modified surge block device similar in design concept as a well development system to collect soft sediment samples (suction sampler) otherwise that are unable to be collected with a core barrel sampler. The suction sampler apparatus consists of a 2 inch diameter PVC pipe and the surge block that includes two 1 7/8 inch diameter washers with a piece of rubber between them attached to a 1-inch PVC pipe.

To collect a sample the apparatus is driven into soft sediment, with the surge block at the bottom of the 2-inch tube, until the required sampling depth is achieved. Once at the desired sampling depth, the apparatus is withdrawn for a foot and lowered back to the bottom while pulling the surge block up through the interior of the 2-inch pipe, creating a vacuum and pulling the sediment into the sampler. The apparatus is then extracted, tilting it as the bottom reaches surface grade. Sample material is then recovered out of the tube into a plastic bag and then distributed as required to sample containers.

Samples will be preserved to 4 degrees Celsius immediately after recovery. Wide-mouth glass containers with Teflon-lined caps will be utilized for sediment samples with the recovered sample volume a function of the analytical requirements. Sediment will be transferred from the sample collection device to an appropriate sample container using a stainless steel or plastic lab spoon or equivalent. If composite samples are collected, sediment sample will be placed in a stainless steel, plastic or other appropriate composition (e.g.: Teflon) bucket, and mixed thoroughly to obtain a homogeneous sample representative of the entire sampling interval.

The sediment samples will be placed into labeled containers. Samples for volatile organic analysis will be collected directly from the bucket, before mixing the sample, to minimize loss due to volatilization of contaminants.

All sampling devices and non-disposable equipment that comes into contact with sediment will be decontaminated prior to reuse, in accordance with the following procedures.

- Remove adhered material from the sampling equipment by brushing and / or rinsing with tap water
- Wash with non-phosphate detergent and tap water
- Rinse with distilled water
- Repeat as necessary until all residue is removed
- Rinse with pesticide grade hexane and allow to air dry on a clean surface
- Rinse with distilled water
- Air dry or dry with clean, chemical free paper towels or shop cloths.

Analytical Methods

In order to fully define sampling locations, depths and analytical parameters; the following Tables are included:

- **Table 2**
 - Lists each sample to be collected, sample location, sample depth and summary of analyses to be performed.
- **Table 3**
 - Full list of all chemical parameters that are included within each analysis.

Sediment samples collected will be analyzed for chemical parameters as follows:

- The discrete sediment samples (42 total) that will be collected as part of the PCB delineation will be analyzed for PCB Aroclors 1016, 1221, 1232, 1242, 1248 and 1254 as shown in **Table 3**.
- The composite sediment samples (12 total) that will be recollected for semi-volatile reanalysis will be analyzed for specific Appendix IX SVOCs, as shown in **Table 3**.
- Samples from locations that were previously inaccessible will be analyzed as follows:
 - The discrete sediment samples (XX total) will be analyzed for specific Appendix IX VOCs and Appendix IX RCRA metals, including hexavalent chromium as shown in **Table 3**, of the previously approved TMC Sediment Sampling and Analysis Plan. This analytical subset includes VOC and metal analyses consistent with the approved plan established for the TMC. These discrete samples (4 total) will also be analyzed for the VOC analytes of the TCLP test procedure.
 - The composite samples (12 total) will be analyzed for the specific Appendix IX semi-volatile organic compounds (SVOCs), cyanide and PCBs aroclors as identified in **Table 3**. These samples will also be analyzed for the inorganic and semi-volatile analytes of the TCLP test procedure.

Data Evaluation and Reporting

The sampling and analytical data developed from this effort will be incorporated with data previously collected for the TMC sediments. Data evaluation and reporting, including data validation processes, will be completed as prescribed in the original approved plan.

Tables

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification	Transect 1										
	TM-SD-01	TM-SD-02	TM-SD-03	TM-SD-04	TM-SD-05	TM-SD-05					
	4/14/2015	8/12/2015	4/14/2015	8/12/2015	4/14/2015	8/12/2015					
	Discrete	Discrete	Discrete	Discrete	Composite	Composite					
Sample Location and Depth	South 0-6"	No Recovery	North 0-6"	No Recovery	0-6"	No Recovery					
Compound	Units										
<i>VOC</i>											
1,1,1,2-Tetrachloroethane	ug/kg	233	U			273	U				
1,1,1-Trichloroethane	ug/kg	233	U			273	U				
1,1,2,2-Tetrachloroethane	ug/kg	233	U			273	U				
1,1,2-Trichloroethane	ug/kg	233	U			273	U				
1,1-Dichloroethane	ug/kg	233	U			273	U				
1,1-Dichloroethene	ug/kg	233	U			273	U				
1,2-Dichloroethane	ug/kg	233	U			273	U				
1,2-Dichloropropane	ug/kg	233	U			273	U				
2-Butanone (MEK)	ug/kg	466	U			546	U				
2-Hexanone	ug/kg	466	U			546	U				
4-Methyl-2-pentanone (MIBK)	ug/kg	466	U			546	U				
Acetone	ug/kg	466	U			575					
Benzene	ug/kg	233	U			273	U				
Bromoform	ug/kg	233	U			273	U				
Carbon disulfide	ug/kg	233	U			273	U				
Carbon tetrachloride	ug/kg	233	U			273	U				
Chlorobenzene	ug/kg	874				273	U				
Chloroethane	ug/kg	233	U			273	U				
Chloroform	ug/kg	233	U			273	U				
Ethylbenzene	ug/kg	233	U			273	U				
Methylene Chloride	ug/kg	233	U			273	U				
Tetrachloroethene	ug/kg	233	U			273	U				
Toluene	ug/kg	233	U			273	U				
Trichloroethene	ug/kg	233	U			273	U				
Vinyl chloride	ug/kg	233	U			273	U				
Xylene (Total)	ug/kg	698	U			819	U				
cis-1,3-Dichloropropene	ug/kg	233	U			273	U				
trans-1,2-Dichloroethene	ug/kg	233	U			273	U				
trans-1,3-Dichloropropene	ug/kg	233	U			273	U				
<i>Metals</i>											
Antimony	mg/kg	1.00	UJ			1.70	J-				
Arsenic	mg/kg	21.90				101.00					
Barium	mg/kg	268.00	J			101.00	J				
Beryllium	mg/kg	1.20	J			0.29	J				
Cadmium	mg/kg	3.00	J			14.90	J				
Chromium	mg/kg	809.00				379.00					
Cobalt	mg/kg	42.10	J-			386.00	J-				
Copper	mg/kg	268.00				1,820.00					
Lead	mg/kg	138.00	J-			198.00	J-				
Nickel	mg/kg	37.20	J			77.00	J				
Selenium	mg/kg	7.90				18.20					
Silver	mg/kg	1.30				20.20					
Thallium	mg/kg	0.65	J			1.80	J				
Tin	mg/kg	30.50	J			32.30	B				
Vanadium	mg/kg	980.00	J			628.00	J				
Zinc	mg/kg	773.00	J			4,280.00	J				
Chromium, Hexavalent	mg/kg	1.20	U			1.40	U				
Mercury	mg/kg	0.12	J-			0.21	J-				
<i>PCB</i>											
PCB-1016 (Aroclor 1016)	mg/kg							0.219	U		
PCB-1221 (Aroclor 1221)	mg/kg							0.219	U		
PCB-1232 (Aroclor 1232)	mg/kg							0.219	U		
PCB-1242 (Aroclor 1242)	mg/kg							0.219	U		
PCB-1248 (Aroclor 1248)	mg/kg							0.219	J		
PCB-1254 (Aroclor 1254)	mg/kg							0.219	U		
<i>Cyanide</i>											
Cyanide	mg/kg							1.1	UJ		

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- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification	Transect 1					
	TM-SD-01	TM-SD-02	TM-SD-03	TM-SD-04	TM-SD-05	TM-SD-05
	4/14/2015	8/12/2015	4/14/2015	8/12/2015	4/14/2015	8/12/2015
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth	South 0-6"	No Recovery	North 0-6"	No Recovery	0-6"	No Recovery
Compound	Units					
<i>SVOC</i>						
1,2,4-Trichlorobenzene	ug/kg				4,370	U
1,2-Dichlorobenzene	ug/kg				4,370	U
1,3-Dichlorobenzene	ug/kg				4,370	UJ
1,4-Dichlorobenzene	ug/kg				4,370	U
2,4,5-Trichlorophenol	ug/kg				4,370	U
2,4,6-Trichlorophenol	ug/kg				4,370	UJ
2,4-Dichlorophenol	ug/kg				4,370	U
2,4-Dimethylphenol	ug/kg				4,370	U
2,4-Dinitrophenol	ug/kg				21,900	UJ
2,4-Dinitrotoluene	ug/kg				4,370	U
2,6-Dinitrotoluene	ug/kg				4,370	U
2-Chloronaphthalene	ug/kg				4,370	U
2-Chlorophenol	ug/kg				4,370	U
2-Methylnaphthalene	ug/kg				4,370	U
2-Methylphenol(o-Cresol)	ug/kg				4,370	U
2-Nitrophenol	ug/kg				4,370	U
3&4-Methylphenol(m&p Cresol)	ug/kg				4,370	U
3,3'-Dichlorobenzidine	ug/kg				21,900	U
3,3'-Dimethylbenzidine	ug/kg				43,700	U
4,6-Dinitro-2-methylphenol	ug/kg				8,750	UJ
4-Bromophenylphenyl ether	ug/kg				4,370	U
4-Chloro-3-methylphenol	ug/kg				8,750	U
4-Chlorophenylphenyl ether	ug/kg				4,370	U
4-Nitrophenol	ug/kg				21,900	UJ
Acenaphthene	ug/kg				4,370	U
Acenaphthylene	ug/kg				4,370	U
Anthracene	ug/kg				4,370	U
Benzo(a)anthracene	ug/kg				4,370	U
Benzo(a)pyrene	ug/kg				4,370	U
Benzo(b)fluoranthene	ug/kg				4,370	U
Benzo(g,h,i)perylene	ug/kg				4,370	U
Benzo(k)fluoranthene	ug/kg				4,370	U
Butylbenzylphthalate	ug/kg				4,370	U
Di-n-butylphthalate	ug/kg				4,370	U
Di-n-octylphthalate	ug/kg				4,370	U
Dibenz(a,h)anthracene	ug/kg				4,370	U
Diethylphthalate	ug/kg				4,370	U
Dimethylphthalate	ug/kg				4,370	U
Fluoranthene	ug/kg				4,370	U
Fluorene	ug/kg				4,370	U
Hexachloro-1,3-butadiene	ug/kg				4,370	U
Hexachlorobenzene	ug/kg				4,370	U
Hexachlorocyclopentadiene	ug/kg				4,370	UJ
Hexachloroethane	ug/kg				4,370	U
Indeno(1,2,3-cd)pyrene	ug/kg				4,370	U
Isophorone	ug/kg				4,370	U
Naphthalene	ug/kg				4,370	U
Nitrobenzene	ug/kg				4,370	U
Pentachloroethane	ug/kg				8,750	U
Pentachlorophenol	ug/kg				21,900	UJ
Phenanthrene	ug/kg				4,370	U
Phenol	ug/kg				4,370	U
Pyrene	ug/kg				4,370	U
Pyridine	ug/kg				4,370	U
bis(2-Chloroethoxy)methane	ug/kg				4,370	U
bis(2-Chloroethyl) ether	ug/kg				4,370	U
bis(2-Chloroisopropyl) ether	ug/kg				4,370	U
bis(2-Ethylhexyl)phthalate	ug/kg				4,370	U

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification		Transect 2									
		TM-SD-06		TM-SD-07		TM-SD-08		TM-SD-09		TM-SD-10	
Sample Date		4/14/2015		4/14/2015		4/14/2015		4/14/2015		4/14/2015	
Sample Type		Discrete		Discrete		Discrete		Discrete		Composite	
Sample Location and Depth		South 0-12"		South 4-5'		North 0-12"		North 4-5'		4-5'	
Compound	Units										
VOC											
1,1,1,2-Tetrachloroethane	ug/kg	343	U	319	U	258	U	145	U		
1,1,1-Trichloroethane	ug/kg	343	U	319	U	258	U	145	U		
1,1,2,2-Tetrachloroethane	ug/kg	343	U	319	U	258	U	145	U		
1,1,2-Trichloroethane	ug/kg	343	U	319	U	258	U	145	U		
1,1-Dichloroethane	ug/kg	343	U	319	U	258	U	145	U		
1,1-Dichloroethene	ug/kg	343	U	319	U	258	U	145	U		
1,2-Dichloroethane	ug/kg	343	U	319	U	258	U	145	U		
1,2-Dichloropropane	ug/kg	343	U	319	U	258	U	145	U		
2-Butanone (MEK)	ug/kg	687	U	638	U	516	U	289	U		
2-Hexanone	ug/kg	687	U	638	U	516	U	289	U		
4-Methyl-2-pentanone (MIBK)	ug/kg	119	J	638	U	246	J	289	U		
Acetone	ug/kg	687	U	638	U	516	U	289	U		
Benzene	ug/kg	343	U	319	U	258	U	145	U		
Bromoform	ug/kg	343	U	319	U	258	U	145	U		
Carbon disulfide	ug/kg	343	U	319	U	258	U	145	U		
Carbon tetrachloride	ug/kg	343	U	319	U	258	U	145	U		
Chlorobenzene	ug/kg	343	U	319	U	258	U	145	U		
Chloroethane	ug/kg	343	U	319	U	258	U	145	U		
Chloroform	ug/kg	343	U	319	U	258	U	145	U		
Ethylbenzene	ug/kg	343	U	211	J	258	U	145	U		
Methylene Chloride	ug/kg	343	U	319	U	258	U	145	U		
Tetrachloroethene	ug/kg	343	U	319	U	258	U	145	U		
Toluene	ug/kg	133	J	412		501		145	U		
Trichloroethene	ug/kg	343	U	319	U	258	U	145	U		
Vinyl chloride	ug/kg	343	U	319	U	258	U	145	U		
Xylene (Total)	ug/kg	1,030	U	525	J	775	U	434	U		
cis-1,3-Dichloropropene	ug/kg	343	U	319	U	258	U	145	U		
trans-1,2-Dichloroethene	ug/kg	343	U	319	U	258	U	145	U		
trans-1,3-Dichloropropene	ug/kg	343	U	319	U	258	U	145	U		
Metals											
Antimony	mg/kg	10.10	J-	8.20	J-	11.20	J-	3.70	J-		
Arsenic	mg/kg	12.80		10.50		13.90		18.00			
Barium	mg/kg	446.00	J	48.40	J	290.00	J	17.70	J		
Beryllium	mg/kg	0.34	J	0.12	B	0.20	B	0.071	B		
Cadmium	mg/kg	0.36	J	0.69	J	4.40	J	0.21	U		
Chromium	mg/kg	467.00		263.00		347.00		368.00			
Cobalt	mg/kg	15.50	J-	16.00	J-	15.60	J-	16.90	J-		
Copper	mg/kg	221.00		221.00		256.00		135.00			
Lead	mg/kg	64.00	J-	80.80	J-	291.00	J-	27.30	J-		
Nickel	mg/kg	283.00	J	123.00	J	185.00	J	172.00	J		
Selenium	mg/kg	1.00		1.30		1.50		1.40			
Silver	mg/kg	2.20		2.90		4.50		2.40			
Thallium	mg/kg	1.80	U	1.60	U	2.00	U	1.40	U		
Tin	mg/kg	111.00	J	652.00	J	219.00	J	43.50	J		
Vanadium	mg/kg	48.50	J	39.40	J	36.80	J	28.50	J		
Zinc	mg/kg	1,070.00	J	1,240.00	J	7,400.00	J	242.00	J		
Chromium, Hexavalent	mg/kg	1.40	U	1.30	U	1.30	U	1.20	U		
Mercury	mg/kg	0.38	J-	0.28	J-	0.36	J-	0.026	J-		
PCB											
PCB-1016 (Aroclor 1016)	mg/kg									1.59	U
PCB-1221 (Aroclor 1221)	mg/kg									1.59	U
PCB-1232 (Aroclor 1232)	mg/kg									1.59	U
PCB-1242 (Aroclor 1242)	mg/kg									1.59	U
PCB-1248 (Aroclor 1248)	mg/kg									1.59	U
PCB-1254 (Aroclor 1254)	mg/kg									1.59	U
Cyanide											
Cyanide	mg/kg									1.0	J-

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification	Transect 2				
	TM-SD-06	TM-SD-07	TM-SD-08	TM-SD-09	TM-SD-10
	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015
	Discrete	Discrete	Discrete	Discrete	Composite
Sample Location and Depth	South 0-12"	South 4-5'	North 0-12"	North 4-5'	4-5'
Compound	Units				
<i>SVOC</i>					
1,2,4-Trichlorobenzene	ug/kg				23,000 U
1,2-Dichlorobenzene	ug/kg				23,000 U
1,3-Dichlorobenzene	ug/kg				23,000 UJ
1,4-Dichlorobenzene	ug/kg				23,000 U
2,4,5-Trichlorophenol	ug/kg				23,000 U
2,4,6-Trichlorophenol	ug/kg				23,000 U
2,4-Dichlorophenol	ug/kg				23,000 U
2,4-Dimethylphenol	ug/kg				23,000 U
2,4-Dinitrophenol	ug/kg				115,000 UJ
2,4-Dinitrotoluene	ug/kg				26,800 U
2,6-Dinitrotoluene	ug/kg				23,000 U
2-Chloronaphthalene	ug/kg				23,000 U
2-Chlorophenol	ug/kg				23,000 U
2-Methylnaphthalene	ug/kg				23,000 U
2-Methylphenol(o-Cresol)	ug/kg				23,000 U
2-Nitrophenol	ug/kg				23,000 UJ
3&4-Methylphenol(m&p Cresol)	ug/kg				23,000 U
3,3'-Dichlorobenzidine	ug/kg				115,000 U
3,3'-Dimethylbenzidine	ug/kg				230,000 U
4,6-Dinitro-2-methylphenol	ug/kg				45,900 UJ
4-Bromophenylphenyl ether	ug/kg				23,000 U
4-Chloro-3-methylphenol	ug/kg				45,900 U
4-Chlorophenylphenyl ether	ug/kg				23,000 U
4-Nitrophenol	ug/kg				115,000 U
Acenaphthene	ug/kg				23,000 U
Acenaphthylene	ug/kg				23,000 U
Anthracene	ug/kg				23,000 U
Benzo(a)anthracene	ug/kg				23,000 U
Benzo(a)pyrene	ug/kg				23,000 U
Benzo(b)fluoranthene	ug/kg				23,000 U
Benzo(g,h,i)perylene	ug/kg				23,000 U
Benzo(k)fluoranthene	ug/kg				23,000 U
Butylbenzylphthalate	ug/kg				23,000 U
Di-n-butylphthalate	ug/kg				23,000 U
Di-n-octylphthalate	ug/kg				23,000 U
Dibenz(a,h)anthracene	ug/kg				23,000 U
Diethylphthalate	ug/kg				23,000 U
Dimethylphthalate	ug/kg				23,000 U
Fluoranthene	ug/kg				23,000 U
Fluorene	ug/kg				23,000 U
Hexachloro-1,3-butadiene	ug/kg				23,000 U
Hexachlorobenzene	ug/kg				23,000 U
Hexachlorocyclopentadiene	ug/kg				23,000 UJ
Hexachloroethane	ug/kg				23,000 U
Indeno(1,2,3-cd)pyrene	ug/kg				23,000 U
Isophorone	ug/kg				23,000 U
Naphthalene	ug/kg				23,000 U
Nitrobenzene	ug/kg				23,000 U
Pentachloroethane	ug/kg				45,900 U
Pentachlorophenol	ug/kg				115,000 UJ
Phenanthrene	ug/kg				23,000 U
Phenol	ug/kg				23,000 U
Pyrene	ug/kg				23,000 U
Pyridine	ug/kg				23,000 U
bis(2-Chloroethoxy)methane	ug/kg				23,000 U
bis(2-Chloroethyl) ether	ug/kg				23,000 U
bis(2-Chloroisopropyl) ether	ug/kg				23,000 U
bis(2-Ethylhexyl)phthalate	ug/kg				23,000 U

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- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 3														
	TM-SD-11		TM-SD-12		TM-SD-13		TM-SD-14		TM-SD-14		TM-SD-15		TM-SD-15		
	4/15/2015		8/12/2015		4/16/2015		4/16/2015		8/12/2015		4/16/2015		8/12/2015		
	Discrete		Discrete		Discrete		Discrete		Discrete		Composite		Composite		
South 0-12"		South 3-4'		North 0-12"		North 4-5'		North 3-4'		0-12"		3-4'			
Compound	Units														
VOC															
1,1,1,2-Tetrachloroethane	ug/kg	343	U	359	U	288	U	397	U	419	U				
1,1,1-Trichloroethane	ug/kg	343	U	359	U	288	U	397	U	419	U				
1,1,2,2-Tetrachloroethane	ug/kg	343	U	359	U	288	U	397	U	419	U				
1,1,2-Trichloroethane	ug/kg	343	U	359	U	288	U	397	U	419	UJ				
1,1-Dichloroethane	ug/kg	343	U	359	U	288	U	397	U	419	UJ				
1,1-Dichloroethene	ug/kg	343	U	359	U	288	U	397	U	419	U				
1,2-Dichloroethane	ug/kg	343	U	359	U	288	U	397	U	419	U				
1,2-Dichloropropane	ug/kg	343	U	359	U	288	U	397	U	419	U				
2-Butanone (MEK)	ug/kg	685	U	717	U	576	U	793	U	839	U				
2-Hexanone	ug/kg	685	U	717	U	576	U	793	U	839	U				
4-Methyl-2-pentanone (MIBK)	ug/kg	685	U	717	U	576	U	793	U	839	U				
Acetone	ug/kg	685	U	717	U	576	U	793	U	839	U				
Benzene	ug/kg	343	U	359	U	288	U	397	U	419	U				
Bromoform	ug/kg	343	U	359	U	288	U	397	U	419	U				
Carbon disulfide	ug/kg	343	U	359	U	288	U	397	U	419	U				
Carbon tetrachloride	ug/kg	343	U	359	U	288	U	397	U	419	UJ				
Chlorobenzene	ug/kg	343	U	359	U	288	U	397	U	419	U				
Chloroethane	ug/kg	343	U	359	U	288	U	397	U	419	U				
Chloroform	ug/kg	343	U	359	U	288	U	397	U	419	U				
Ethylbenzene	ug/kg	343	U	359	U	288	U	397	U	419	U				
Methylene Chloride	ug/kg	343	U	359	U	288	U	397	U	419	UJ				
Tetrachloroethene	ug/kg	343	U	359	U	288	U	397	U	419	U				
Toluene	ug/kg	343	U	211	J	288	U	397	U	419	U				
Trichloroethene	ug/kg	343	U	359	U	288	U	397	U	419	U				
Vinyl chloride	ug/kg	343	U	359	U	288	U	397	U	419	U				
Xylene (Total)	ug/kg	1,030	U	1,080	U	864	U	1,190	U	256	J				
cis-1,3-Dichloropropene	ug/kg	343	U	359	U	288	U	397	U	419	U				
trans-1,2-Dichloroethene	ug/kg	343	U	359	U	288	U	397	U	419	U				
trans-1,3-Dichloropropene	ug/kg	343	U	359	U	288	U	397	U	419	U				
Metals															
Antimony	mg/kg	0.63	J-	0.49	UJ	5.60	J-	1.90	J-	3.00	J				
Arsenic	mg/kg	23.70		21.2		10.70		10.20		12.00					
Barium	mg/kg	68.10	J	34.00		30.30	J	59.90	J	76.30					
Beryllium	mg/kg	0.14	B	0.11	B	0.07	B	0.15	B	0.0970	B				
Cadmium	mg/kg	0.78	J	2.40		0.13	B	0.58	J	0.970					
Chromium	mg/kg	538.00		1040		232.00		203.00		261.00					
Cobalt	mg/kg	18.30	J-	18.60		12.50	J-	9.90	J-	11.80					
Copper	mg/kg	281.00		190.00		140.00		171.00		187.00					
Lead	mg/kg	135.00	J-	60.60		51.40	J-	163.00	J-	107.00					
Nickel	mg/kg	268.00	J	504.00		163.00	J	71.30	J	143.00					
Selenium	mg/kg	0.71	J	2.20		0.74		1.20		1.50					
Silver	mg/kg	4.90		7.40		2.60		1.60		4.90					
Thallium	mg/kg	2.00	U	1.60	U	1.80	U	2.10	U	2.30	U				
Tin	mg/kg	240.00	J	289.00		66.20	J	172.00	J	231.00					
Vanadium	mg/kg	115.00	J	36.70		26.60	J	231.00	J	155.00					
Zinc	mg/kg	553.00	J	1,060.00		293.00	J	370.00	J	516.00					
Chromium, Hexavalent	mg/kg	1.40	U	1.50	UJ	1.30	U	1.60	U	1.40	UJ				
Mercury	mg/kg	0.39	J-	0.090	J	0.10	J-	0.13	J-	0.20					
PCB															
PCB-1016 (Aroclor 1016)	mg/kg										1.70	U	0.653	U	
PCB-1221 (Aroclor 1221)	mg/kg										1.70	U	0.653	U	
PCB-1232 (Aroclor 1232)	mg/kg										1.70	U	0.653	U	
PCB-1242 (Aroclor 1242)	mg/kg										1.70	U	0.653	U	
PCB-1248 (Aroclor 1248)	mg/kg										1.70	U	0.653	U	
PCB-1254 (Aroclor 1254)	mg/kg										0.614	J	0.653	U	
Cyanide															
Cyanide	mg/kg										4.8	J-	1.9		

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 3								
	TM-SD-11	TM-SD-12	TM-SD-13	TM-SD-14	TM-SD-14	TM-SD-15	TM-SD-15		
	4/15/2015	8/12/2015	4/16/2015	4/16/2015	8/12/2015	4/16/2015	8/12/2015		
	Discrete	Discrete	Discrete	Discrete	Discrete	Composite	Composite		
Units	South 0-12"	South 3-4'	North 0-12"	North 4-5'	North 3-4'	0-12"	3-4'		
SVOC									
1,2,4-Trichlorobenzene	ug/kg					25,000	U	22,700	U
1,2-Dichlorobenzene	ug/kg					25,000	U	22,700	U
1,3-Dichlorobenzene	ug/kg					25,000	UJ	22,700	U
1,4-Dichlorobenzene	ug/kg					25,000	U	22,700	U
2,4,5-Trichlorophenol	ug/kg					25,000	U	22,700	UL3
2,4,6-Trichlorophenol	ug/kg					25,000	U	22,700	UL3
2,4-Dichlorophenol	ug/kg					25,000	U	22,700	U
2,4-Dimethylphenol	ug/kg					25,000	U	22,700	U
2,4-Dinitrophenol	ug/kg					125,000	UJ	113,000	U
2,4-Dinitrotoluene	ug/kg					25,000	U	22,700	UJ
2,6-Dinitrotoluene	ug/kg					25,000	U	22,700	U
2-Chloronaphthalene	ug/kg					25,000	U	22,700	U
2-Chlorophenol	ug/kg					25,000	U	22,700	U
2-Methylnaphthalene	ug/kg					25,000	U	22,700	U
2-Methylphenol(o-Cresol)	ug/kg					25,000	U	22,700	U
2-Nitrophenol	ug/kg					25,000	UJ	22,700	U
3&4-Methylphenol(m&p Cresol)	ug/kg					25,000	U	22,700	UL3
3,3'-Dichlorobenzidine	ug/kg					125,000	U	113,000	U
3,3'-Dimethylbenzidine	ug/kg					250,000	U	227,000	U
4,6-Dinitro-2-methylphenol	ug/kg					49,900	UJ	45,400	U
4-Bromophenylphenyl ether	ug/kg					25,000	U	22,700	U
4-Chloro-3-methylphenol	ug/kg					49,900	U	45,400	U
4-Chlorophenylphenyl ether	ug/kg					25,000	U	22,700	U
4-Nitrophenol	ug/kg					125,000	U	113,000	UL3
Acenaphthene	ug/kg					25,000	U	22,700	U
Acenaphthylene	ug/kg					25,000	U	22,700	U
Anthracene	ug/kg					25,000	U	22,700	U
Benzo(a)anthracene	ug/kg					25,000	U	22,700	U
Benzo(a)pyrene	ug/kg					25,000	U	22,700	UJ
Benzo(b)fluoranthene	ug/kg					25,000	U	22,700	UL3
Benzo(g,h,i)perylene	ug/kg					25,000	U	22,700	UL3
Benzo(k)fluoranthene	ug/kg					25,000	U	22,700	UL3
Butylbenzylphthalate	ug/kg					25,000	U	22,700	UJ
Di-n-butylphthalate	ug/kg					25,000	U	22,700	UL3
Di-n-octylphthalate	ug/kg					25,000	U	22,700	UJ
Dibenz(a,h)anthracene	ug/kg					25,000	U	22,700	UL3
Diethylphthalate	ug/kg					25,000	U	22,700	U
Dimethylphthalate	ug/kg					25,000	U	22,700	U
Fluoranthene	ug/kg					25,000	U	22,700	U
Fluorene	ug/kg					25,000	U	22,700	U
Hexachloro-1,3-butadiene	ug/kg					25,000	U	22,700	U
Hexachlorobenzene	ug/kg					25,000	U	22,700	U
Hexachlorocyclopentadiene	ug/kg					25,000	UJ	22,700	U
Hexachloroethane	ug/kg					25,000	U	22,700	U
Indeno(1,2,3-cd)pyrene	ug/kg					25,000	U	22,700	UL3
Isophorone	ug/kg					25,000	U	22,700	U
Naphthalene	ug/kg					25,000	U	22,700	U
Nitrobenzene	ug/kg					25,000	U	22,700	U
Pentachloroethane	ug/kg					49,900	U	45,400	U
Pentachlorophenol	ug/kg					125,000	UJ	113,000	UJ
Phenanthrene	ug/kg					25,000	U	22,700	U
Phenol	ug/kg					25,000	U	22,700	U
Pyrene	ug/kg					25,000	U	22,700	UJ
Pyridine	ug/kg					25,000	U	22,700	U
bis(2-Chloroethoxy)methane	ug/kg					25,000	U	22,700	U
bis(2-Chloroethyl) ether	ug/kg					25,000	U	22,700	U
bis(2-Chloroisopropyl) ether	ug/kg					25,000	U	22,700	U
bis(2-Ethylhexyl)phthalate	ug/kg					25,000	U	22,700	U

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 4											
		TM-SD-16		TM-SD-17		TM-SD-18		TM-SD-19		TM-SD-20		TM-SD-20	
		4/16/2015		8/12/2015		4/16/2015		8/12/2015		4/16/2015		8/12/2015	
		Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 5-6'		North 0-12"		North 2-3'		0-12"		2-6'			
Compound	Units												
VOC													
1,1,1,2-Tetrachloroethane	ug/kg	324	U	314	U	307	U	421	U				
1,1,1-Trichloroethane	ug/kg	324	U	314	U	307	U	421	U				
1,1,2,2-Tetrachloroethane	ug/kg	324	U	314	U	307	U	421	U				
1,1,2-Trichloroethane	ug/kg	324	U	314	U	307	U	421	U				
1,1-Dichloroethane	ug/kg	324	U	314	U	307	U	421	U				
1,1-Dichloroethene	ug/kg	324	U	314	U	307	U	421	U				
1,2-Dichloroethane	ug/kg	324	U	314	U	307	U	421	U				
1,2-Dichloropropane	ug/kg	324	U	314	U	307	U	421	U				
2-Butanone (MEK)	ug/kg	647	U	628	U	614	U	842	U				
2-Hexanone	ug/kg	647	U	628	U	614	U	842	U				
4-Methyl-2-pentanone (MIBK)	ug/kg	647	U	628	U	614	U	842	U				
Acetone	ug/kg	1,030		628	U	529	J	842	U				
Benzene	ug/kg	324	U	314	U	307	U	421	U				
Bromoform	ug/kg	324	U	314	U	307	U	421	U				
Carbon disulfide	ug/kg	324	U	314	U	307	U	421	U				
Carbon tetrachloride	ug/kg	324	U	314	U	307	U	421	U				
Chlorobenzene	ug/kg	324	U	314	U	307	U	421	U				
Chloroethane	ug/kg	324	U	314	U	307	U	421	U				
Chloroform	ug/kg	324	U	314	U	307	U	421	U				
Ethylbenzene	ug/kg	324	U	314	U	307	U	421	U				
Methylene Chloride	ug/kg	324	U	314	U	307	U	421	U				
Tetrachloroethene	ug/kg	324	U	314	U	307	U	421	U				
Toluene	ug/kg	324	U	314	U	307	U	421	U				
Trichloroethene	ug/kg	324	U	314	U	307	U	421	U				
Vinyl chloride	ug/kg	324	U	314	U	307	U	421	U				
Xylene (Total)	ug/kg	971	U	943	U	921	U	1,260	U				
cis-1,3-Dichloropropene	ug/kg	324	U	314	U	307	U	421	U				
trans-1,2-Dichloroethene	ug/kg	324	U	314	U	307	U	421	U				
trans-1,3-Dichloropropene	ug/kg	324	U	314	U	307	U	421	U				
Metals													
Antimony	mg/kg	5.20	J-	1.70	J	11.20	J-	0.77	UJ				
Arsenic	mg/kg	6.50		35.00		14.00		23.10					
Barium	mg/kg	30.50	J	47.10		48.90	J	46.50					
Beryllium	mg/kg	0.12	B	0.160	B	0.12	B	0.056	B				
Cadmium	mg/kg	0.37	J	1.20		0.32	U	1.20					
Chromium	mg/kg	179.00		251.00		317.00		207.00					
Cobalt	mg/kg	7.60	J-	21.50		16.30	J-	23.30					
Copper	mg/kg	94.50		268.00		199.00		293.00					
Lead	mg/kg	38.30	J-	81.90		51.30	J-	121.00					
Nickel	mg/kg	95.40	J	156.00		163.00	J	161.00					
Selenium	mg/kg	1.20		1.40		0.98		1.70					
Silver	mg/kg	2.10		9.20		2.70		8.30					
Thallium	mg/kg	2.10	U	2.20	U	2.20	U	2.60	U				
Tin	mg/kg	120.00	J	329.00		166.00	J	208.00					
Vanadium	mg/kg	32.80	J	41.60		40.20	J	70.20					
Zinc	mg/kg	272.00	J	326.00		546.00	J	212.00					
Chromium, Hexavalent	mg/kg	1.40	U	1.60	UJ	1.50	U	1.90	UJ				
Mercury	mg/kg	0.14	J-	0.410		0.04	J-	0.28					
PCB													
PCB-1016 (Aroclor 1016)	mg/kg							1.55	U	1.07	U		
PCB-1221 (Aroclor 1221)	mg/kg							1.55	U	1.07	U		
PCB-1232 (Aroclor 1232)	mg/kg							1.55	U	1.07	U		
PCB-1242 (Aroclor 1242)	mg/kg							1.55	U	3.30			
PCB-1248 (Aroclor 1248)	mg/kg							1.55	U	1.07	U		
PCB-1254 (Aroclor 1254)	mg/kg							1.55	U	1.48			
Cyanide													
Cyanide	mg/kg							2.3	J-	4.9			

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TMC Sediment Sampling Work Plan Addendum

Table 1

		Transect 4					
Sample Identification		TM-SD-16	TM-SD-17	TM-SD-18	TM-SD-19	TM-SD-20	TM-SD-20
Sample Date		4/16/2015	8/12/2015	4/16/2015	8/12/2015	4/16/2015	8/12/2015
Sample Type		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth		South 0-12"	South 5-6'	North 0-12"	North 2-3'	0-12"	2-6'
Compound	Units						
<i>SVOC</i>							
1,2,4-Trichlorobenzene	ug/kg					21,600 U	7,190 U
1,2-Dichlorobenzene	ug/kg					21,600 U	7,190 U
1,3-Dichlorobenzene	ug/kg					21,600 UJ	7,190 U
1,4-Dichlorobenzene	ug/kg					21,600 U	7,190 U
2,4,5-Trichlorophenol	ug/kg					21,600 U	7,190 UJL3
2,4,6-Trichlorophenol	ug/kg					21,600 U	7,190 UJL3
2,4-Dichlorophenol	ug/kg					21,600 U	7,190 U
2,4-Dimethylphenol	ug/kg					21,600 U	7,190 U
2,4-Dinitrophenol	ug/kg					108,000 UJ	36,000 UJ
2,4-Dinitrotoluene	ug/kg					21,600 U	7,190 UJL3
2,6-Dinitrotoluene	ug/kg					21,600 U	7,190 U
2-Chloronaphthalene	ug/kg					21,600 U	7,190 U
2-Chlorophenol	ug/kg					21,600 U	7,190 U
2-Methylnaphthalene	ug/kg					21,600 U	7,190 U
2-Methylphenol(o-Cresol)	ug/kg					21,600 U	7,190 U
2-Nitrophenol	ug/kg					21,600 UJ	7,190 U
3&4-Methylphenol(m&p Cresol)	ug/kg					21,600 U	7,190 UJL3
3,3'-Dichlorobenzidine	ug/kg					108,000 U	1,840 J
3,3'-Dimethylbenzidine	ug/kg					216,000 U	71,900 U
4,6-Dinitro-2-methylphenol	ug/kg					43,300 UJ	14,400 U
4-Bromophenylphenyl ether	ug/kg					21,600 U	7,190 U
4-Chloro-3-methylphenol	ug/kg					43,300 U	14,400 U
4-Chlorophenylphenyl ether	ug/kg					21,600 U	7,190 U
4-Nitrophenol	ug/kg					108,000 U	6,550 B
Acenaphthene	ug/kg					21,600 U	7,190 U
Acenaphthylene	ug/kg					21,600 U	7,190 U
Anthracene	ug/kg					21,600 U	7,190 U
Benzo(a)anthracene	ug/kg					21,600 U	2,570 B
Benzo(a)pyrene	ug/kg					21,600 U	2,050 JL1
Benzo(b)fluoranthene	ug/kg					21,600 U	2,260 JL1
Benzo(g,h,i)perylene	ug/kg					21,600 U	7,190 UJL3
Benzo(k)fluoranthene	ug/kg					21,600 U	2,460 JL1
Butylbenzylphthalate	ug/kg					21,600 U	1,880 JL1
Di-n-butylphthalate	ug/kg					21,600 U	7,190 UJL3
Di-n-octylphthalate	ug/kg					21,600 U	4,600 J
Dibenz(a,h)anthracene	ug/kg					21,600 U	7,190 UJL3
Diethylphthalate	ug/kg					21,600 U	7,190 U
Dimethylphthalate	ug/kg					21,600 U	7,190 U
Fluoranthene	ug/kg					21,600 U	7,190 U
Fluorene	ug/kg					21,600 U	7,190 U
Hexachloro-1,3-butadiene	ug/kg					21,600 U	7,190 U
Hexachlorobenzene	ug/kg					21,600 U	7,190 U
Hexachlorocyclopentadiene	ug/kg					21,600 UJ	7,190 U
Hexachloroethane	ug/kg					21,600 U	7,190 U
Indeno(1,2,3-cd)pyrene	ug/kg					21,600 U	7,190 UJL3
Isophorone	ug/kg					21,600 U	7,190 U
Naphthalene	ug/kg					21,600 U	7,190 U
Nitrobenzene	ug/kg					21,600 U	7,190 U
Pentachloroethane	ug/kg					43,300 U	14,400 U
Pentachlorophenol	ug/kg					108,000 UJ	36,000 UJ
Phenanthrene	ug/kg					21,600 U	7,190 U
Phenol	ug/kg					21,600 U	7,190 U
Pyrene	ug/kg					21,600 U	7,190 UJ
Pyridine	ug/kg					21,600 U	7,190 U
bis(2-Chloroethoxy)methane	ug/kg					21,600 U	7,190 U
bis(2-Chloroethyl) ether	ug/kg					21,600 U	7,190 U
bis(2-Chloroisopropyl) ether	ug/kg					21,600 U	7,190 U
bis(2-Ethylhexyl)phthalate	ug/kg					21,600 U	3,160 J

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- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 5														
	TM-SD-21		TM-SD-22		TM-SD-22		TM-SD-23		TM-SD-24		TM-SD-25		TM-SD-25		
	4/16/2015		4/16/2015		8/12/2015		4/16/2015		8/12/2015		4/16/2015		8/12/2015		
	Discrete		Discrete		Discrete		Discrete		Discrete		Composite		Composite		
South 0-12"		South 4-5'		South 3-4'		North 0-12"		North 3.5-4.5'		0-12"		3-4.5'			
Compound	Units														
VOC															
1,1,1,2-Tetrachloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,1,1-Trichloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,1,2,2-Tetrachloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,1,2-Trichloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,1-Dichloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,1-Dichloroethene	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,2-Dichloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
1,2-Dichloropropane	ug/kg	243	U	226	U	238	U	356	U	331	U				
2-Butanone (MEK)	ug/kg	486	U	192	J	244	J	712	U	662	U				
2-Hexanone	ug/kg	486	U	453	U	476	U	712	U	662	U				
4-Methyl-2-pentanone (MIBK)	ug/kg	486	U	453	U	476	U	712	U	662	U				
Acetone	ug/kg	298	J	515	U	476	U	712	U	662	U				
Benzene	ug/kg	243	U	226	U	238	U	356	U	331	U				
Bromoform	ug/kg	243	U	226	U	238	U	356	U	331	U				
Carbon disulfide	ug/kg	243	U	226	U	238	U	356	U	331	U				
Carbon tetrachloride	ug/kg	243	U	226	U	238	U	356	U	331	U				
Chlorobenzene	ug/kg	243	U	226	U	238	U	356	U	331	U				
Chloroethane	ug/kg	243	U	226	U	238	U	356	U	331	U				
Chloroform	ug/kg	243	U	226	U	238	U	356	U	331	U				
Ethylbenzene	ug/kg	243	U	226	U	238	U	356	U	331	U				
Methylene Chloride	ug/kg	243	U	226	U	238	U	356	U	331	U				
Tetrachloroethene	ug/kg	243	U	226	U	238	U	356	U	331	U				
Toluene	ug/kg	243	U	226	U	8,840		5,930		331	U				
Trichloroethene	ug/kg	243	U	226	U	238	U	356	U	331	U				
Vinyl chloride	ug/kg	243	U	226	U	238	U	356	U	331	U				
Xylene (Total)	ug/kg	729	U	679	U	157	J	1,070	U	994	U				
cis-1,3-Dichloropropene	ug/kg	243	U	226	U	238	U	356	U	331	U				
trans-1,2-Dichloroethene	ug/kg	243	U	226	U	238	U	356	U	331	U				
trans-1,3-Dichloropropene	ug/kg	243	U	226	U	238	U	356	U	331	U				
Metals															
Antimony	mg/kg	4.10	J-	3.80	J-	0.55	UJ	3.00	J-	0.81	UJ				
Arsenic	mg/kg	13.10		10.70		22.30		12.20		31.50					
Barium	mg/kg	133.00	J	55.20	J	61.00		59.50	J	15.90					
Beryllium	mg/kg	0.23	J	0.14	B	0.27		0.05	B	0.27	U				
Cadmium	mg/kg	0.35	U	0.26	U	0.59		0.29	U	0.80					
Chromium	mg/kg	685.00		399.00		411.00		236.00		173.00					
Cobalt	mg/kg	14.70	J-	15.80	J-	17.50		12.30	J-	30.90					
Copper	mg/kg	187.00		157.00		201.00		152.00		271.00					
Lead	mg/kg	78.70	J-	48.60	J-	57.70		68.50	J-	53.70					
Nickel	mg/kg	131.00	J	128.00	J	153.00		97.70	J	168.00					
Selenium	mg/kg	1.60		1.40		1.60		0.99		2.10					
Silver	mg/kg	5.10		2.90		7.60		5.30		8.40					
Thallium	mg/kg	2.30	U	1.80	U	1.80	U	1.90	U	2.70	U				
Tin	mg/kg	192.00	J	180.00	J	100.00		52.50	J	48.20					
Vanadium	mg/kg	42.30	J	37.10	J	32.70		8.20	J	20.70					
Zinc	mg/kg	331.00	J	379.00	J	157.00		50.80	J	67.20					
Chromium, Hexavalent	mg/kg	1.40	U	1.30	U	1.30	UJ	1.30	U	1.50	UJ				
Mercury	mg/kg	0.42	J-	0.56	J-	0.33		0.23	J-	0.48					
PCB															
PCB-1016 (Aroclor 1016)	mg/kg											1.65	U	0.721	U
PCB-1221 (Aroclor 1221)	mg/kg											1.65	U	0.721	U
PCB-1232 (Aroclor 1232)	mg/kg											1.65	U	0.721	U
PCB-1242 (Aroclor 1242)	mg/kg											1.65	U	1.76	
PCB-1248 (Aroclor 1248)	mg/kg											1.65	U	0.721	U
PCB-1254 (Aroclor 1254)	mg/kg											1.65	U	0.762	
Cyanide															
Cyanide	mg/kg											1.4	J-	1.9	

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- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 5								
	TM-SD-21	TM-SD-22	TM-SD-22	TM-SD-23	TM-SD-24	TM-SD-25	TM-SD-25		
	4/16/2015	4/16/2015	8/12/2015	4/16/2015	8/12/2015	4/16/2015	8/12/2015		
	Discrete	Discrete	Discrete	Discrete	Discrete	Composite	Composite		
Units	South 0-12"	South 4-5'	South 3-4'	North 0-12"	North 3.5-4.5'	0-12"	3-4.5'		
Compound	ug/kg								
SVOC									
1,2,4-Trichlorobenzene	ug/kg					23,200	U	4,940	U
1,2-Dichlorobenzene	ug/kg					23,200	U	4,940	U
1,3-Dichlorobenzene	ug/kg					23,200	UJ	4,940	U
1,4-Dichlorobenzene	ug/kg					23,200	U	4,940	U
2,4,5-Trichlorophenol	ug/kg					23,200	U	4,940	UL3
2,4,6-Trichlorophenol	ug/kg					23,200	U	4,940	UL3
2,4-Dichlorophenol	ug/kg					23,200	U	4,940	U
2,4-Dimethylphenol	ug/kg					23,200	U	4,940	U
2,4-Dinitrophenol	ug/kg					116,000	UJ	24,700	U
2,4-Dinitrotoluene	ug/kg					23,200	U	4,940	UJ
2,6-Dinitrotoluene	ug/kg					23,200	U	4,940	U
2-Chloronaphthalene	ug/kg					23,200	U	4,940	U
2-Chlorophenol	ug/kg					23,200	U	4,940	U
2-Methylnaphthalene	ug/kg					23,200	U	4,940	U
2-Methylphenol(o-Cresol)	ug/kg					23,200	U	4,940	U
2-Nitrophenol	ug/kg					23,200	UJ	4,940	U
3&4-Methylphenol(m&p Cresol)	ug/kg					23,200	U	4,940	UL3
3,3'-Dichlorobenzidine	ug/kg					116,000	U	24,700	U
3,3'-Dimethylbenzidine	ug/kg					232,000	U	49,400	U
4,6-Dinitro-2-methylphenol	ug/kg					46,500	UJ	9,880	U
4-Bromophenylphenyl ether	ug/kg					23,200	U	4,940	U
4-Chloro-3-methylphenol	ug/kg					46,500	U	9,880	U
4-Chlorophenylphenyl ether	ug/kg					23,200	U	4,940	U
4-Nitrophenol	ug/kg					116,000	U	24,700	UL3
Acenaphthene	ug/kg					23,200	U	4,940	U
Acenaphthylene	ug/kg					23,200	U	4,940	U
Anthracene	ug/kg					23,200	U	4,940	U
Benzo(a)anthracene	ug/kg					23,200	U	4,940	U
Benzo(a)pyrene	ug/kg					23,200	U	4,940	UJ
Benzo(b)fluoranthene	ug/kg					23,200	U	1,040	JL1
Benzo(g,h,i)perylene	ug/kg					23,200	U	4,940	UL3
Benzo(k)fluoranthene	ug/kg					23,200	U	1,020	JL1
Butylbenzylphthalate	ug/kg					23,200	U	4,940	UL3
Di-n-butylphthalate	ug/kg					23,200	U	4,940	UL3
Di-n-octylphthalate	ug/kg					23,200	U	1,170	J
Dibenz(a,h)anthracene	ug/kg					23,200	U	4,940	UL3
Diethylphthalate	ug/kg					23,200	U	4,940	U
Dimethylphthalate	ug/kg					23,200	U	4,940	U
Fluoranthene	ug/kg					23,200	U	4,940	U
Fluorene	ug/kg					23,200	U	4,940	U
Hexachloro-1,3-butadiene	ug/kg					23,200	U	4,940	U
Hexachlorobenzene	ug/kg					23,200	U	4,940	U
Hexachlorocyclopentadiene	ug/kg					23,200	UJ	4,940	U
Hexachloroethane	ug/kg					23,200	U	4,940	U
Indeno(1,2,3-cd)pyrene	ug/kg					23,200	U	4,940	UL3
Isophorone	ug/kg					23,200	U	4,940	U
Naphthalene	ug/kg					23,200	U	4,940	U
Nitrobenzene	ug/kg					23,200	U	4,940	U
Pentachloroethane	ug/kg					46,500	U	9,880	U
Pentachlorophenol	ug/kg					116,000	UJ	24,700	UJ
Phenanthrene	ug/kg					23,200	U	4,940	U
Phenol	ug/kg					23,200	U	4,940	U
Pyrene	ug/kg					23,200	U	4,940	UJ
Pyridine	ug/kg					23,200	U	4,940	U
bis(2-Chloroethoxy)methane	ug/kg					23,200	U	4,940	U
bis(2-Chloroethyl) ether	ug/kg					23,200	U	4,940	U
bis(2-Chloroisopropyl) ether	ug/kg					23,200	U	4,940	U
bis(2-Ethylhexyl)phthalate	ug/kg					6,420	J	4,940	U

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 6											
		TM-SD-27		TM-SD-28		TM-SD-29		TM-SD-30		TM-SD-31		TM-SD-31	
		4/17/2015		8/12/2015		4/20/2015		8/12/2015		4/20/2015		8/12/2015	
		Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 3-4'		North 0-12"		North 2-3'		0-12"		2-4'			
Compound	Units												
VOC													
1,1,1,2-Tetrachloroethane	ug/kg	404	U	530	U	521	U	454	U				
1,1,1-Trichloroethane	ug/kg	404	U	530	U	521	U	454	U				
1,1,2,2-Tetrachloroethane	ug/kg	404	U	530	U	521	U	454	U				
1,1,2-Trichloroethane	ug/kg	404	U	530	U	521	U	454	U				
1,1-Dichloroethane	ug/kg	404	U	530	U	521	U	454	U				
1,1-Dichloroethene	ug/kg	404	U	530	U	521	U	454	U				
1,2-Dichloroethane	ug/kg	404	U	530	U	521	UJ	454	U				
1,2-Dichloropropane	ug/kg	404	U	530	U	521	U	454	U				
2-Butanone (MEK)	ug/kg	808	U	1,060	U	1,040	U	908	U				
2-Hexanone	ug/kg	808	UJ	1,060	U	1,040	U	908	U				
4-Methyl-2-pentanone (MIBK)	ug/kg	808	U	1,060	U	1,040	U	908	U				
Acetone	ug/kg	808	UJ	1,060	U	1,040	U	908	U				
Benzene	ug/kg	404	U	530	U	521	U	454	U				
Bromoform	ug/kg	404	U	530	U	521	U	454	U				
Carbon disulfide	ug/kg	404	U	530	U	521	U	454	U				
Carbon tetrachloride	ug/kg	404	U	530	UJ	521	U	454	UJ				
Chlorobenzene	ug/kg	404	U	530	U	521	U	454	U				
Chloroethane	ug/kg	404	U	530	U	521	U	454	U				
Chloroform	ug/kg	404	U	530	U	521	U	454	U				
Ethylbenzene	ug/kg	404	U	530	U	521	U	454	U				
Methylene Chloride	ug/kg	404	UJ	530	U	521	UJ	454	U				
Tetrachloroethene	ug/kg	404	U	530	U	521	U	454	U				
Toluene	ug/kg	73,100		8,010		521	U	454	U				
Trichloroethene	ug/kg	404	U	530	U	521	U	454	U				
Vinyl chloride	ug/kg	404	U	530	U	521	U	454	U				
Xylene (Total)	ug/kg	264	J	1,590	U	1,560	U	1,360	U				
cis-1,3-Dichloropropene	ug/kg	404	U	530	U	521	U	454	U				
trans-1,2-Dichloroethene	ug/kg	404	U	530	U	521	U	454	U				
trans-1,3-Dichloropropene	ug/kg	404	U	530	U	521	U	454	U				
Metals													
Antimony	mg/kg	1.10	UJ	1.10	UJ	0.89	UJ	0.52	UJ				
Arsenic	mg/kg	39.20		60.20		5.80		17.70					
Barium	mg/kg	78.00		65.90		99.00		58.70					
Beryllium	mg/kg	0.13	B	0.15	B	0.35		0.12	B				
Cadmium	mg/kg	1.20		1.50		0.74		0.96					
Chromium	mg/kg	713.00		569.00		524.00		303.00					
Cobalt	mg/kg	22.30		35.10		15.40		13.40					
Copper	mg/kg	457.00		744.00		234.00		570.00					
Lead	mg/kg	160.00	J+	166.00		90.10	J+	75.00					
Nickel	mg/kg	119.00		142.00		147.00		114.00					
Selenium	mg/kg	1.50		2.30		6.80		1.80					
Silver	mg/kg	13.70		15.40		9.20		5.40					
Thallium	mg/kg	1.90	U	3.60	U	3.00	U	1.70	U				
Tin	mg/kg	2,500.00	J+	3,550.00		265.00	J+	58.50					
Vanadium	mg/kg	54.90		85.10		448.00		45.90					
Zinc	mg/kg	454.00		345.00		1,030.00		133.00					
Chromium, Hexavalent	mg/kg	1.60	R	1.80	UJ	2.50	R	1.30	UJ				
Mercury	mg/kg	1.10		0.83		0.56		0.20					
PCB													
PCB-1016 (Aroclor 1016)	mg/kg							4.90	UJ	17.60	U		
PCB-1221 (Aroclor 1221)	mg/kg							4.90	UJ	17.60	U		
PCB-1232 (Aroclor 1232)	mg/kg							4.90	UJ	17.60	U		
PCB-1242 (Aroclor 1242)	mg/kg							4.90	UJ	233.00	U		
PCB-1248 (Aroclor 1248)	mg/kg							4.90	UJ	17.60	U		
PCB-1254 (Aroclor 1254)	mg/kg							4.90	UJ	17.60	U		
Cyanide													
Cyanide	mg/kg							0.88	J-	4.5			

Data Validation Qualifier Code

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- B - The compound/analyte was not detected substantially above the level of the associated method blank/preparation or field blank
- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

		Transect 6					
Sample Identification		TM-SD-27	TM-SD-28	TM-SD-29	TM-SD-30	TM-SD-31	TM-SD-31
Sample Date		4/17/2015	8/12/2015	4/20/2015	8/12/2015	4/20/2015	8/12/2015
Sample Type		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth		South 0-12"	South 3-4'	North 0-12"	North 2-3'	0-12"	2-4'
Compound	Units						
SVOC							
1,2,4-Trichlorobenzene	ug/kg					2,040,000 UJ	5,870 U
1,2-Dichlorobenzene	ug/kg					2,040,000 UJ	5,870 U
1,3-Dichlorobenzene	ug/kg					2,040,000 UJ	5,870 U
1,4-Dichlorobenzene	ug/kg					2,040,000 UJ	5,870 U
2,4,5-Trichlorophenol	ug/kg					2,040,000 UJ	5,870 U
2,4,6-Trichlorophenol	ug/kg					2,040,000 UJ	5,870 U
2,4-Dichlorophenol	ug/kg					2,040,000 UJ	5,870 U
2,4-Dimethylphenol	ug/kg					2,040,000 UJ	4,260 J
2,4-Dinitrophenol	ug/kg					10,200,000 UJ	29,300 U
2,4-Dinitrotoluene	ug/kg					2,040,000 UJ	5,870 UJ
2,6-Dinitrotoluene	ug/kg					2,040,000 UJ	5,870 U
2-Chloronaphthalene	ug/kg					2,040,000 UJ	5,870 U
2-Chlorophenol	ug/kg					2,040,000 UJ	5,870 U
2-Methylnaphthalene	ug/kg					2,040,000 UJ	5,870 U
2-Methylphenol(o-Cresol)	ug/kg					2,040,000 UJ	5,870 U
2-Nitrophenol	ug/kg					2,040,000 UJ	5,870 U
3&4-Methylphenol(m&p Cresol)	ug/kg					2,040,000 UJ	5,870 U
3,3'-Dichlorobenzidine	ug/kg					10,200,000 UJ	29,300 U
3,3'-Dimethylbenzidine	ug/kg					20,400,000 UJ	58,700 U
4,6-Dinitro-2-methylphenol	ug/kg					4,090,000 R	11,700 U
4-Bromophenylphenyl ether	ug/kg					2,040,000 UJ	5,870 U
4-Chloro-3-methylphenol	ug/kg					4,090,000 UJ	11,700 U
4-Chlorophenylphenyl ether	ug/kg					2,040,000 UJ	5,870 U
4-Nitrophenol	ug/kg					10,200,000 UJ	29,300 U
Acenaphthene	ug/kg					2,040,000 UJ	5,870 U
Acenaphthylene	ug/kg					2,040,000 UJ	5,870 U
Anthracene	ug/kg					2,040,000 UJ	5,870 U
Benzo(a)anthracene	ug/kg					2,040,000 UJ	5,870 U
Benzo(a)pyrene	ug/kg					2,040,000 UJ	5,870 U
Benzo(b)fluoranthene	ug/kg					2,040,000 UJ	1,140 J
Benzo(g,h,i)perylene	ug/kg					2,040,000 UJ	5,870 U
Benzo(k)fluoranthene	ug/kg					2,040,000 UJ	5,870 U
Butylbenzylphthalate	ug/kg					2,040,000 UJ	5,870 U
Di-n-butylphthalate	ug/kg					2,040,000 UJ	5,870 U
Di-n-octylphthalate	ug/kg					2,040,000 UJ	5,870 U
Dibenz(a,h)anthracene	ug/kg					2,040,000 UJ	5,870 U
Diethylphthalate	ug/kg					2,040,000 UJ	5,870 U
Dimethylphthalate	ug/kg					2,040,000 UJ	5,870 U
Fluoranthene	ug/kg					2,040,000 UJ	5,870 U
Fluorene	ug/kg					2,040,000 UJ	5,870 U
Hexachloro-1,3-butadiene	ug/kg					2,040,000 UJ	5,870 U
Hexachlorobenzene	ug/kg					2,040,000 UJ	5,870 U
Hexachlorocyclopentadiene	ug/kg					2,040,000 UJ	5,870 U
Hexachloroethane	ug/kg					2,040,000 UJ	5,870 U
Indeno(1,2,3-cd)pyrene	ug/kg					2,040,000 UJ	5,870 U
Isophorone	ug/kg					2,040,000 UJ	5,870 U
Naphthalene	ug/kg					2,040,000 UJ	5,870 U
Nitrobenzene	ug/kg					2,040,000 UJ	5,870 U
Pentachloroethane	ug/kg					4,090,000 UJ	11,700 U
Pentachlorophenol	ug/kg					10,200,000 UJ	29,300 U
Phenanthrene	ug/kg					2,040,000 UJ	1,750 J
Phenol	ug/kg					2,040,000 UJ	5,870 U
Pyrene	ug/kg					2,040,000 UJ	5,870 U
Pyridine	ug/kg					2,040,000 UJ	5,870 U
bis(2-Chloroethoxy)methane	ug/kg					2,040,000 UJ	5,870 U
bis(2-Chloroethyl) ether	ug/kg					2,040,000 UJ	5,870 U
bis(2-Chloroisopropyl) ether	ug/kg					2,040,000 UJ	5,870 U
bis(2-Ethylhexyl)phthalate	ug/kg					2,040,000 UJ	1,750 J

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 7												
	TM-SD-32	TM-SD-33	TM-SD-34	TM-SD-35	TM-SD-36	TM-SD-36							
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015							
	Discrete	Discrete	Discrete	Discrete	Composite	Composite							
Units		South 0-12"		No Recovery		North 0-12"		North 5.5-6.5"		0-12"		5.5-6.5"	
Compound	Units												
VOC													
1,1,1,2-Tetrachloroethane	ug/kg	408	U			427	U	383	U				
1,1,1-Trichloroethane	ug/kg	408	U			427	U	383	U				
1,1,2,2-Tetrachloroethane	ug/kg	408	U			427	U	383	U				
1,1,2-Trichloroethane	ug/kg	408	U			427	U	383	U				
1,1-Dichloroethane	ug/kg	408	U			427	U	383	U				
1,1-Dichloroethene	ug/kg	408	U			427	U	383	U				
1,2-Dichloroethane	ug/kg	408	UJ			427	UJ	383	U				
1,2-Dichloropropane	ug/kg	408	U			427	U	383	U				
2-Butanone (MEK)	ug/kg	816	U			853	U	486	J				
2-Hexanone	ug/kg	816	U			853	U	765	U				
4-Methyl-2-pentanone (MIBK)	ug/kg	816	U			853	U	765	U				
Acetone	ug/kg	816	U			853	U	378	J				
Benzene	ug/kg	408	U			427	U	383	U				
Bromoform	ug/kg	408	U			427	U	383	U				
Carbon disulfide	ug/kg	408	U			427	U	383	U				
Carbon tetrachloride	ug/kg	408	U			427	U	383	U				
Chlorobenzene	ug/kg	408	U			427	U	383	U				
Chloroethane	ug/kg	408	U			427	U	383	U				
Chloroform	ug/kg	408	U			427	U	383	U				
Ethylbenzene	ug/kg	408	U			427	U	160	J				
Methylene Chloride	ug/kg	408	UJ			427	UJ	383	U				
Tetrachloroethene	ug/kg	408	U			427	U	383	U				
Toluene	ug/kg	204	J			427	U	15,000					
Trichloroethene	ug/kg	408	U			427	U	383	U				
Vinyl chloride	ug/kg	408	U			427	U	383	U				
Xylene (Total)	ug/kg	1,220	U			1,280	U	680	J				
cis-1,3-Dichloropropene	ug/kg	408	U			427	U	383	U				
trans-1,2-Dichloroethene	ug/kg	408	U			427	U	383	U				
trans-1,3-Dichloropropene	ug/kg	408	U			427	U	383	U				
Metals													
Antimony	mg/kg	0.81	UJ			0.63	UJ	0.70	B				
Arsenic	mg/kg	31.90				8.60		19.90					
Barium	mg/kg	78.70				62.00		79.80					
Beryllium	mg/kg	0.26	B			0.29		0.18	B				
Cadmium	mg/kg	1.20				0.31	U	3.00	J				
Chromium	mg/kg	347.00				425.00		333.00	MI				
Cobalt	mg/kg	29.50				18.10		16.20					
Copper	mg/kg	509.00				170.00		586.00	J				
Lead	mg/kg	114.00	J+			40.30	J+	146.00	J				
Nickel	mg/kg	104.00				170.00		147.00	J				
Selenium	mg/kg	1.10				1.60		3.10	J				
Silver	mg/kg	9.10				9.20		9.20					
Thallium	mg/kg	2.70	U			2.10	U	2.70	U				
Tin	mg/kg	1,740.00	J+			98.10	J+	144.00	J				
Vanadium	mg/kg	102.00				49.00		28.60					
Zinc	mg/kg	559.00				315.00		281.00	J				
Chromium, Hexavalent	mg/kg	2.00	R			1.80	R	1.50	UJ				
Mercury	mg/kg	0.32				0.16	J	0.63					
PCB													
PCB-1016 (Aroclor 1016)	mg/kg									3.24	U	4.80	U
PCB-1221 (Aroclor 1221)	mg/kg									3.24	U	4.80	U
PCB-1232 (Aroclor 1232)	mg/kg									3.24	U	4.80	U
PCB-1242 (Aroclor 1242)	mg/kg									3.24	U	3.33	J
PCB-1248 (Aroclor 1248)	mg/kg									3.24	U	4.80	U
PCB-1254 (Aroclor 1254)	mg/kg									3.24	U	4.80	U
Cyanide													
Cyanide	mg/kg									0.44	J-	4.3	

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 7							
		TM-SD-32	TM-SD-33	TM-SD-34	TM-SD-35	TM-SD-36	TM-SD-36		
		4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015		
		Discrete	Discrete	Discrete	Discrete	Composite	Composite		
Sample Location and Depth		South 0-12"	No Recovery	North 0-12"	North 5.5-6.5"	0-12"	5.5-6.5"		
Compound	Units								
SVOC									
1,2,4-Trichlorobenzene	ug/kg					1,600,000	U	32,900	U
1,2-Dichlorobenzene	ug/kg					1,600,000	U	32,900	U
1,3-Dichlorobenzene	ug/kg					1,600,000	U	32,900	U
1,4-Dichlorobenzene	ug/kg					1,600,000	U	32,900	U
2,4,5-Trichlorophenol	ug/kg					1,600,000	U	32,900	UL3
2,4,6-Trichlorophenol	ug/kg					1,600,000	U	32,900	UL3
2,4-Dichlorophenol	ug/kg					1,600,000	U	32,900	U
2,4-Dimethylphenol	ug/kg					1,600,000	U	32,900	U
2,4-Dinitrophenol	ug/kg					8,010,000	UJ	164,000	U
2,4-Dinitrotoluene	ug/kg					1,600,000	U	32,900	UL3
2,6-Dinitrotoluene	ug/kg					1,600,000	U	32,900	U
2-Chloronaphthalene	ug/kg					1,600,000	U	32,900	U
2-Chlorophenol	ug/kg					1,600,000	U	32,900	U
2-Methylnaphthalene	ug/kg					1,600,000	U	32,900	U
2-Methylphenol(o-Cresol)	ug/kg					1,600,000	U	32,900	U
2-Nitrophenol	ug/kg					1,600,000	U	32,900	U
3&4-Methylphenol(m&p Cresol)	ug/kg					1,600,000	U	32,900	UL3
3,3'-Dichlorobenzidine	ug/kg					8,010,000	U	164,000	U
3,3'-Dimethylbenzidine	ug/kg					16,000,000	U	329,000	U
4,6-Dinitro-2-methylphenol	ug/kg					3,210,000	R	65,800	U
4-Bromophenylphenyl ether	ug/kg					1,600,000	U	32,900	U
4-Chloro-3-methylphenol	ug/kg					3,210,000	U	65,800	U
4-Chlorophenylphenyl ether	ug/kg					1,600,000	U	32,900	U
4-Nitrophenol	ug/kg					8,010,000	U	164,000	UL3
Acenaphthene	ug/kg					1,600,000	U	32,900	U
Acenaphthylene	ug/kg					1,600,000	U	32,900	U
Anthracene	ug/kg					1,600,000	U	32,900	U
Benzo(a)anthracene	ug/kg					1,600,000	U	32,900	U
Benzo(a)pyrene	ug/kg					1,600,000	U	32,900	UJ
Benzo(b)fluoranthene	ug/kg					1,600,000	U	32,900	UL3
Benzo(g,h,i)perylene	ug/kg					1,600,000	U	32,900	UL3
Benzo(k)fluoranthene	ug/kg					1,600,000	U	32,900	UL3
Butylbenzylphthalate	ug/kg					1,600,000	UJ	32,900	UJ
Di-n-butylphthalate	ug/kg					1,600,000	U	32,900	UL3
Di-n-octylphthalate	ug/kg					1,600,000	U	32,900	UJ
Dibenz(a,h)anthracene	ug/kg					1,600,000	U	32,900	UL3
Diethylphthalate	ug/kg					1,600,000	U	32,900	U
Dimethylphthalate	ug/kg					1,600,000	U	32,900	U
Fluoranthene	ug/kg					1,600,000	U	32,900	U
Fluorene	ug/kg					1,600,000	U	32,900	U
Hexachloro-1,3-butadiene	ug/kg					1,600,000	U	32,900	U
Hexachlorobenzene	ug/kg					1,600,000	U	32,900	U
Hexachlorocyclopentadiene	ug/kg					1,600,000	U	32,900	U
Hexachloroethane	ug/kg					1,600,000	U	32,900	U
Indeno(1,2,3-cd)pyrene	ug/kg					1,600,000	U	32,900	UL3
Isophorone	ug/kg					1,600,000	U	32,900	U
Naphthalene	ug/kg					1,600,000	U	32,900	U
Nitrobenzene	ug/kg					1,600,000	UJ	32,900	U
Pentachloroethane	ug/kg					3,210,000	U	65,800	U
Pentachlorophenol	ug/kg					8,010,000	UJ	164,000	UJ
Phenanthrene	ug/kg					1,600,000	U	8,820	J
Phenol	ug/kg					1,600,000	U	32,900	U
Pyrene	ug/kg					1,600,000	U	32,900	UJ
Pyridine	ug/kg					1,600,000	U	32,900	U
bis(2-Chloroethoxy)methane	ug/kg					1,600,000	U	32,900	U
bis(2-Chloroethyl) ether	ug/kg					1,600,000	U	32,900	U
bis(2-Chloroisopropyl) ether	ug/kg					1,600,000	U	32,900	U
bis(2-Ethylhexyl)phthalate	ug/kg					1,600,000	U	32,900	UJ

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 8					
		TM-SD-37	TM-SD-38	TM-SD-39	TM-SD-40	TM-SD-41	TM-SD-41
		4/20/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015
		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth		South 0-12"	No Recovery	North 0-12"	No Recovery	0-12"	No Recovery
Compound	Units						
VOC							
1,1,1,2-Tetrachloroethane	ug/kg	281	U		280	U	
1,1,1-Trichloroethane	ug/kg	281	U		280	U	
1,1,2,2-Tetrachloroethane	ug/kg	281	U		280	U	
1,1,2-Trichloroethane	ug/kg	281	U		280	U	
1,1-Dichloroethane	ug/kg	281	U		280	U	
1,1-Dichloroethene	ug/kg	281	U		280	U	
1,2-Dichloroethane	ug/kg	281	UJ		280	UJ	
1,2-Dichloropropane	ug/kg	281	U		280	U	
2-Butanone (MEK)	ug/kg	154	J		559	U	
2-Hexanone	ug/kg	562	U		559	U	
4-Methyl-2-pentanone (MIBK)	ug/kg	562	U		559	U	
Acetone	ug/kg	562	U		559	U	
Benzene	ug/kg	281	U		3,830		
Bromoform	ug/kg	281	U		280	U	
Carbon disulfide	ug/kg	281	U		280	U	
Carbon tetrachloride	ug/kg	281	U		280	U	
Chlorobenzene	ug/kg	281	U		6,000		
Chloroethane	ug/kg	281	U		280	U	
Chloroform	ug/kg	281	U		280	U	
Ethylbenzene	ug/kg	281	U		280	U	
Methylene Chloride	ug/kg	281	UJ		280	UJ	
Tetrachloroethene	ug/kg	281	U		280	U	
Toluene	ug/kg	281	U		101	J	
Trichloroethene	ug/kg	281	U		280	U	
Vinyl chloride	ug/kg	281	U		280	U	
Xylene (Total)	ug/kg	842	U		257	J	
cis-1,3-Dichloropropene	ug/kg	281	U		280	U	
trans-1,2-Dichloroethene	ug/kg	281	U		280	U	
trans-1,3-Dichloropropene	ug/kg	281	U		280	U	
Metals							
Antimony	mg/kg	3.60	J-		0.83	J-	
Arsenic	mg/kg	14.50			15.70		
Barium	mg/kg	51.10			161.00		
Beryllium	mg/kg	0.15	B		0.13	B	
Cadmium	mg/kg	0.36	U		1.00		
Chromium	mg/kg	366.00			389.00		
Cobalt	mg/kg	15.50			14.70		
Copper	mg/kg	189.00			428.00		
Lead	mg/kg	48.60	J+		200.00	J+	
Nickel	mg/kg	158.00			260.00		
Selenium	mg/kg	1.80			2.00		
Silver	mg/kg	8.80			7.80		
Thallium	mg/kg	2.40	U		2.00	U	
Tin	mg/kg	434.00	J+		92.70	J+	
Vanadium	mg/kg	64.70			23.30		
Zinc	mg/kg	364.00			321.00		
Chromium, Hexavalent	mg/kg	1.70	R		1.30	R	
Mercury	mg/kg	0.23			0.10	J	
PCB							
PCB-1016 (Aroclor 1016)	mg/kg						3.20 U
PCB-1221 (Aroclor 1221)	mg/kg						3.20 U
PCB-1232 (Aroclor 1232)	mg/kg						3.20 U
PCB-1242 (Aroclor 1242)	mg/kg						3.20 U
PCB-1248 (Aroclor 1248)	mg/kg						3.20 U
PCB-1254 (Aroclor 1254)	mg/kg						3.20 U
Cyanide							
Cyanide	mg/kg						0.45 J-

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TMC Sediment Sampling Work Plan Addendum

Table 1

		Transect 8					
Sample Identification		TM-SD-37	TM-SD-38	TM-SD-39	TM-SD-40	TM-SD-41	TM-SD-41
Sample Date		4/20/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015
Sample Type		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth		South 0-12"	No Recovery	North 0-12"	No Recovery	0-12"	No Recovery
Compound	Units						
SVOC							
1,2,4-Trichlorobenzene	ug/kg					1,490,000	U
1,2-Dichlorobenzene	ug/kg					1,490,000	U
1,3-Dichlorobenzene	ug/kg					1,490,000	U
1,4-Dichlorobenzene	ug/kg					1,490,000	U
2,4,5-Trichlorophenol	ug/kg					1,490,000	U
2,4,6-Trichlorophenol	ug/kg					1,490,000	U
2,4-Dichlorophenol	ug/kg					1,490,000	U
2,4-Dimethylphenol	ug/kg					1,490,000	U
2,4-Dinitrophenol	ug/kg					7,440,000	UJ
2,4-Dinitrotoluene	ug/kg					1,490,000	U
2,6-Dinitrotoluene	ug/kg					1,490,000	U
2-Chloronaphthalene	ug/kg					1,490,000	U
2-Chlorophenol	ug/kg					1,490,000	U
2-Methylnaphthalene	ug/kg					1,490,000	U
2-Methylphenol(o-Cresol)	ug/kg					1,490,000	U
2-Nitrophenol	ug/kg					1,490,000	U
3&4-Methylphenol(m&p Cresol)	ug/kg					1,490,000	U
3,3'-Dichlorobenzidine	ug/kg					7,440,000	U
3,3'-Dimethylbenzidine	ug/kg					14,900,000	U
4,6-Dinitro-2-methylphenol	ug/kg					2,980,000	R
4-Bromophenylphenyl ether	ug/kg					1,490,000	U
4-Chloro-3-methylphenol	ug/kg					2,980,000	U
4-Chlorophenylphenyl ether	ug/kg					1,490,000	U
4-Nitrophenol	ug/kg					7,440,000	U
Acenaphthene	ug/kg					1,490,000	U
Acenaphthylene	ug/kg					1,490,000	U
Anthracene	ug/kg					1,490,000	U
Benzo(a)anthracene	ug/kg					1,490,000	U
Benzo(a)pyrene	ug/kg					1,490,000	U
Benzo(b)fluoranthene	ug/kg					1,490,000	U
Benzo(g,h,i)perylene	ug/kg					1,490,000	U
Benzo(k)fluoranthene	ug/kg					1,490,000	U
Butylbenzylphthalate	ug/kg					1,490,000	UJ
Di-n-butylphthalate	ug/kg					1,490,000	U
Di-n-octylphthalate	ug/kg					1,490,000	U
Dibenz(a,h)anthracene	ug/kg					1,490,000	U
Diethylphthalate	ug/kg					1,490,000	U
Dimethylphthalate	ug/kg					1,490,000	U
Fluoranthene	ug/kg					1,490,000	U
Fluorene	ug/kg					1,490,000	U
Hexachloro-1,3-butadiene	ug/kg					1,490,000	U
Hexachlorobenzene	ug/kg					1,490,000	U
Hexachlorocyclopentadiene	ug/kg					1,490,000	U
Hexachloroethane	ug/kg					1,490,000	U
Indeno(1,2,3-cd)pyrene	ug/kg					1,490,000	U
Isophorone	ug/kg					1,490,000	U
Naphthalene	ug/kg					1,490,000	U
Nitrobenzene	ug/kg					1,490,000	UJ
Pentachloroethane	ug/kg					2,980,000	U
Pentachlorophenol	ug/kg					7,440,000	UJ
Phenanthrene	ug/kg					1,490,000	U
Phenol	ug/kg					1,490,000	U
Pyrene	ug/kg					1,490,000	U
Pyridine	ug/kg					1,490,000	U
bis(2-Chloroethoxy)methane	ug/kg					1,490,000	U
bis(2-Chloroethyl) ether	ug/kg					1,490,000	U
bis(2-Chloroisopropyl) ether	ug/kg					1,490,000	U
bis(2-Ethylhexyl)phthalate	ug/kg					1,490,000	U

Data Validation Qualifier Code

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- J- - The positive result reported for this analyte is a quantitative estimate, but may be biased low.
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- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 9											
		TM-SD-42		TM-SD-43		TM-SD-44		TM-SD-45		TM-SD-46		TM-SD-46	
		4/17/2015		8/13/2015		4/20/2015		8/13/2015		4/20/2015		8/13/2015	
		Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 6-7"		North 0-12"		No Recovery		0-12"		6-7"			
Compound	Units												
VOC													
1,1,1,2-Tetrachloroethane	ug/kg	439	U	307	U	339	U						
1,1,1-Trichloroethane	ug/kg	439	U	307	U	339	U						
1,1,2,2-Tetrachloroethane	ug/kg	439	U	307	U	339	U						
1,1,2-Trichloroethane	ug/kg	439	U	307	U	339	U						
1,1-Dichloroethane	ug/kg	439	U	307	U	339	U						
1,1-Dichloroethene	ug/kg	439	U	307	U	339	U						
1,2-Dichloroethane	ug/kg	439	UJ	307	U	339	UJ						
1,2-Dichloropropane	ug/kg	439	U	307	U	339	U						
2-Butanone (MEK)	ug/kg	248	J	614	U	679	U						
2-Hexanone	ug/kg	877	U	614	U	679	U						
4-Methyl-2-pentanone (MIBK)	ug/kg	877	U	614	U	679	U						
Acetone	ug/kg	877	U	614	U	679	U						
Benzene	ug/kg	439	U	558		339	U						
Bromoform	ug/kg	439	U	307	U	339	U						
Carbon disulfide	ug/kg	439	U	307	U	339	U						
Carbon tetrachloride	ug/kg	439	U	307	U	339	U						
Chlorobenzene	ug/kg	439	U	307	U	339	U						
Chloroethane	ug/kg	439	U	307	U	339	U						
Chloroform	ug/kg	439	U	307	U	339	U						
Ethylbenzene	ug/kg	439	U	2,450		339	U						
Methylene Chloride	ug/kg	439	UJ	307	U	339	UJ						
Tetrachloroethene	ug/kg	439	U	307	U	339	U						
Toluene	ug/kg	439	U	3,730		339	U						
Trichloroethene	ug/kg	439	U	307	U	339	U						
Vinyl chloride	ug/kg	439	U	307	U	339	U						
Xylene (Total)	ug/kg	696	J	9,370		1,020	U						
cis-1,3-Dichloropropene	ug/kg	439	U	307	U	339	U						
trans-1,2-Dichloroethene	ug/kg	439	U	307	U	339	U						
trans-1,3-Dichloropropene	ug/kg	439	U	307	U	339	U						
Metals													
Antimony	mg/kg	4.60	J-	4.80	UJ	10.90							
Arsenic	mg/kg	14.10		26.10		10.10							
Barium	mg/kg	43.20		173.00		40.20							
Beryllium	mg/kg	0.07	B	0.099	B	0.08	B						
Cadmium	mg/kg	0.34	U	2.10	J	0.30							
Chromium	mg/kg	591.00		1,930.00		330.00							
Cobalt	mg/kg	15.30		10.90		13.40							
Copper	mg/kg	205.00		390.00	J	212.00							
Lead	mg/kg	44.80	J+	113.00	J	80.60							
Nickel	mg/kg	147.00		155.00	J	123.00							
Selenium	mg/kg	1.70		1.80	J	1.80							
Silver	mg/kg	9.30		9.90		6.20							
Thallium	mg/kg	2.20	U	1.60	U	2.00	U						
Tin	mg/kg	1,940.00	J+	1,770.00	J	389.00							
Vanadium	mg/kg	26.20		17.10		31.30							
Zinc	mg/kg	310.00		259.00	J	809.00							
Chromium, Hexavalent	mg/kg	1.80	R	1.50	UJ	1.30	R						
Mercury	mg/kg	0.20		0.28		0.19							
PCB													
PCB-1016 (Aroclor 1016)	mg/kg							3.67	U	4.07	UD3		
PCB-1221 (Aroclor 1221)	mg/kg							3.67	U	4.07	UD3		
PCB-1232 (Aroclor 1232)	mg/kg							3.67	U	4.07	UD3		
PCB-1242 (Aroclor 1242)	mg/kg							3.67	U	4.07	UD3		
PCB-1248 (Aroclor 1248)	mg/kg							3.67	U	4.07	UD3		
PCB-1254 (Aroclor 1254)	mg/kg							3.67	U	4.07	UD3		
Cyanide													
Cyanide	mg/kg							3.6	J-	12.5			

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Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 9					
	TM-SD-42	TM-SD-43	TM-SD-44	TM-SD-45	TM-SD-46	TM-SD-46
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Units	South 0-12"	South 6-7"	North 0-12"	No Recovery	0-12"	6-7"
Compound	ug/kg					
SVOC						
1,2,4-Trichlorobenzene	ug/kg				1,570,000 U	28,200 U
1,2-Dichlorobenzene	ug/kg				1,570,000 U	28,200 U
1,3-Dichlorobenzene	ug/kg				1,570,000 U	28,200 U
1,4-Dichlorobenzene	ug/kg				1,570,000 U	28,200 U
2,4,5-Trichlorophenol	ug/kg				1,570,000 U	28,200 U
2,4,6-Trichlorophenol	ug/kg				1,570,000 U	28,200 U
2,4-Dichlorophenol	ug/kg				1,570,000 U	28,200 U
2,4-Dimethylphenol	ug/kg				1,570,000 U	28,200 U
2,4-Dinitrophenol	ug/kg				7,860,000 UJ	141,000 U
2,4-Dinitrotoluene	ug/kg				1,570,000 U	28,200 U
2,6-Dinitrotoluene	ug/kg				1,570,000 U	28,200 U
2-Chloronaphthalene	ug/kg				1,570,000 U	28,200 U
2-Chlorophenol	ug/kg				1,570,000 U	28,200 U
2-Methylnaphthalene	ug/kg				1,570,000 U	7,010 J
2-Methylphenol(o-Cresol)	ug/kg				1,570,000 U	28,200 U
2-Nitrophenol	ug/kg				1,570,000 U	28,200 U
3&4-Methylphenol(m&p Cresol)	ug/kg				1,570,000 U	28,200 U
3,3'-Dichlorobenzidine	ug/kg				7,860,000 U	141,000 U
3,3'-Dimethylbenzidine	ug/kg				15,700,000 U	282,000 U
4,6-Dinitro-2-methylphenol	ug/kg				3,140,000 R	56,400 U
4-Bromophenylphenyl ether	ug/kg				1,570,000 U	28,200 U
4-Chloro-3-methylphenol	ug/kg				3,140,000 U	56,400 U
4-Chlorophenylphenyl ether	ug/kg				1,570,000 U	28,200 U
4-Nitrophenol	ug/kg				7,860,000 U	141,000 U
Acenaphthene	ug/kg				1,570,000 U	28,200 U
Acenaphthylene	ug/kg				1,570,000 U	28,200 U
Anthracene	ug/kg				1,570,000 U	28,200 U
Benzo(a)anthracene	ug/kg				1,570,000 U	28,200 U
Benzo(a)pyrene	ug/kg				1,570,000 U	28,200 U
Benzo(b)fluoranthene	ug/kg				1,570,000 U	28,200 U
Benzo(g,h,i)perylene	ug/kg				1,570,000 U	28,200 U
Benzo(k)fluoranthene	ug/kg				1,570,000 U	28,200 U
Butylbenzylphthalate	ug/kg				1,570,000 UJ	28,200 UJ
Di-n-butylphthalate	ug/kg				1,570,000 U	28,200 U
Di-n-octylphthalate	ug/kg				1,570,000 U	28,200 U
Dibenz(a,h)anthracene	ug/kg				1,570,000 U	28,200 U
Diethylphthalate	ug/kg				1,570,000 U	28,200 U
Dimethylphthalate	ug/kg				1,570,000 U	28,200 U
Fluoranthene	ug/kg				1,570,000 U	28,200 U
Fluorene	ug/kg				1,570,000 U	28,200 U
Hexachloro-1,3-butadiene	ug/kg				1,570,000 U	28,200 U
Hexachlorobenzene	ug/kg				1,570,000 U	28,200 U
Hexachlorocyclopentadiene	ug/kg				1,570,000 U	28,200 U
Hexachloroethane	ug/kg				1,570,000 U	28,200 U
Indeno(1,2,3-cd)pyrene	ug/kg				1,570,000 U	28,200 U
Isophorone	ug/kg				1,570,000 U	28,200 U
Naphthalene	ug/kg				1,570,000 U	8,530 J
Nitrobenzene	ug/kg				1,570,000 UJ	28,200 U
Pentachloroethane	ug/kg				3,140,000 U	56,400 U
Pentachlorophenol	ug/kg				7,860,000 UJ	141,000 UJ
Phenanthrene	ug/kg				1,570,000 U	4,930 J
Phenol	ug/kg				1,570,000 U	28,200 U
Pyrene	ug/kg				1,570,000 U	28,200 U
Pyridine	ug/kg				1,570,000 U	28,200 U
bis(2-Chloroethoxy)methane	ug/kg				1,570,000 U	28,200 U
bis(2-Chloroethyl) ether	ug/kg				1,570,000 U	28,200 U
bis(2-Chloroisopropyl) ether	ug/kg				1,570,000 U	28,200 U
bis(2-Ethylhexyl)phthalate	ug/kg				1,570,000 U	11,100 J

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 10											
	TM-SD-47		TM-SD-48		TM-SD-49		TM-SD-50		TM-SD-51		TM-SD-51	
	4/17/2015		8/13/2015		4/20/2015		8/13/2015		4/20/2015		8/13/2015	
	Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 5.5-6.5"		North 0-12"		North 1.5-2.5"		0-12"		1.5-6.5"		
Compound	Units											
VOC												
1,1,1,2-Tetrachloroethane	ug/kg	811	U	848	U	423	U	696	U			
1,1,1-Trichloroethane	ug/kg	811	U	848	U	423	U	696	U			
1,1,2,2-Tetrachloroethane	ug/kg	811	U	848	U	423	U	696	U			
1,1,2-Trichloroethane	ug/kg	811	U	848	U	423	U	696	U			
1,1-Dichloroethane	ug/kg	811	U	848	U	423	U	696	U			
1,1-Dichloroethene	ug/kg	811	U	848	U	423	U	696	U			
1,2-Dichloroethane	ug/kg	811	UJ	848	U	423	UJ	696	U			
1,2-Dichloropropane	ug/kg	811	U	848	U	423	U	696	U			
2-Butanone (MEK)	ug/kg	1,620	U	1,700	U	846	U	1,390	U			
2-Hexanone	ug/kg	1,620	U	1,700	U	846	U	1,390	U			
4-Methyl-2-pentanone (MIBK)	ug/kg	1,620	U	1,700	U	846	U	1,390	U			
Acetone	ug/kg	1,620	U	1,700	U	640	J	1,390	U			
Benzene	ug/kg	811	U	696	J	423	U	477	J			
Bromoform	ug/kg	811	U	848	U	423	U	696	U			
Carbon disulfide	ug/kg	811	U	848	U	423	U	696	U			
Carbon tetrachloride	ug/kg	811	U	848	U	423	U	696	U			
Chlorobenzene	ug/kg	811	U	848	U	8,440	U	696	U			
Chloroethane	ug/kg	811	U	848	U	423	U	696	U			
Chloroform	ug/kg	811	U	848	U	423	U	696	U			
Ethylbenzene	ug/kg	811	U	728	J	423	U	1,860				
Methylene Chloride	ug/kg	811	UJ	848	U	423	UJ	696	U			
Tetrachloroethene	ug/kg	811	U	848	U	423	U	696	U			
Toluene	ug/kg	811	U	848	U	146	J	229	J			
Trichloroethene	ug/kg	811	U	848	U	423	U	696	U			
Vinyl chloride	ug/kg	811	U	848	U	423	U	696	U			
Xylene (Total)	ug/kg	2,430	U	9,590	U	540	J	13,800				
cis-1,3-Dichloropropene	ug/kg	811	U	848	U	423	U	696	U			
trans-1,2-Dichloroethene	ug/kg	811	U	848	U	423	U	696	U			
trans-1,3-Dichloropropene	ug/kg	811	U	848	U	423	U	696	U			
Metals												
Antimony	mg/kg	0.72	B	13.00	UJ	10.40		10.60	UJ			
Arsenic	mg/kg	16.10		28.80		11.70		26.50				
Barium	mg/kg	81.30		291.00		43.00		204.00				
Beryllium	mg/kg	0.24	B	0.18	B	0.07	B	0.10	B			
Cadmium	mg/kg	0.30	B	4.70	J	1.40		3.30	J			
Chromium	mg/kg	1,950.00		4,130.00		371.00		3,470.00				
Cobalt	mg/kg	17.70		14.30		13.20		11.70				
Copper	mg/kg	328.00		620.00	J	161.00		509.00	J			
Lead	mg/kg	91.10	J+	222.00	J	30.20		172.00	J			
Nickel	mg/kg	178.00		195.00	J	138.00		167.00	J			
Selenium	mg/kg	1.70		3.40	J	2.20		2.70	J			
Silver	mg/kg	9.30		11.40		5.90		12.00				
Thallium	mg/kg	3.70	U	4.30	U	2.50	U	3.50	U			
Tin	mg/kg	7,680.00	J+	3,750.00	J	828.00		3,430.00	J			
Vanadium	mg/kg	60.00		37.70		22.20		26.50				
Zinc	mg/kg	601.00		709.00	J	284.00		497.00	J			
Chromium, Hexavalent	mg/kg	2.50	R	2.30	UJ	1.50	R	2.00	UJ			
Mercury	mg/kg	0.16	J	0.39		0.05	J	0.43				
PCB												
PCB-1016 (Aroclor 1016)	mg/kg							3.62	U	4.71	U	
PCB-1221 (Aroclor 1221)	mg/kg							3.62	U	4.71	U	
PCB-1232 (Aroclor 1232)	mg/kg							3.62	U	4.71	U	
PCB-1242 (Aroclor 1242)	mg/kg							3.62	U	4.71	U	
PCB-1248 (Aroclor 1248)	mg/kg							3.62	U	4.71	U	
PCB-1254 (Aroclor 1254)	mg/kg							3.62	U	3.82	J	
Cyanide												
Cyanide	mg/kg							3.4	J-	3.2		

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Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 10					
	TM-SD-47	TM-SD-48	TM-SD-49	TM-SD-50	TM-SD-51	TM-SD-51
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Units	South 0-12"	South 5.5-6.5'	North 0-12"	North 1.5-2.5'	0-12"	1.5-6.5'
Compound	ug/kg					
SVOC						
1,2,4-Trichlorobenzene	ug/kg				1,560,000 U	31,300 U
1,2-Dichlorobenzene	ug/kg				1,560,000 U	31,300 U
1,3-Dichlorobenzene	ug/kg				1,560,000 U	31,300 U
1,4-Dichlorobenzene	ug/kg				1,560,000 U	31,300 U
2,4,5-Trichlorophenol	ug/kg				1,560,000 U	31,300 U
2,4,6-Trichlorophenol	ug/kg				1,560,000 U	31,300 U
2,4-Dichlorophenol	ug/kg				1,560,000 U	31,300 U
2,4-Dimethylphenol	ug/kg				1,560,000 U	31,300 U
2,4-Dinitrophenol	ug/kg				7,820,000 UJ	157,000 U
2,4-Dinitrotoluene	ug/kg				1,560,000 U	31,300 U
2,6-Dinitrotoluene	ug/kg				1,560,000 U	31,300 U
2-Chloronaphthalene	ug/kg				1,560,000 U	31,300 U
2-Chlorophenol	ug/kg				1,560,000 U	31,300 U
2-Methylnaphthalene	ug/kg				1,560,000 U	31,300 U
2-Methylphenol(o-Cresol)	ug/kg				1,560,000 U	31,300 U
2-Nitrophenol	ug/kg				1,560,000 U	31,300 U
3&4-Methylphenol(m&p Cresol)	ug/kg				1,560,000 U	31,300 U
3,3'-Dichlorobenzidine	ug/kg				7,820,000 U	157,000 U
3,3'-Dimethylbenzidine	ug/kg				15,600,000 U	313,000 U
4,6-Dinitro-2-methylphenol	ug/kg				3,130,000 U	62,600 U
4-Bromophenylphenyl ether	ug/kg				1,560,000 U	31,300 U
4-Chloro-3-methylphenol	ug/kg				3,130,000 U	62,600 U
4-Chlorophenylphenyl ether	ug/kg				1,560,000 U	31,300 U
4-Nitrophenol	ug/kg				7,820,000 U	157,000 U
Acenaphthene	ug/kg				1,560,000 U	31,300 U
Acenaphthylene	ug/kg				1,560,000 U	31,300 U
Anthracene	ug/kg				1,560,000 U	31,300 U
Benzo(a)anthracene	ug/kg				1,560,000 U	31,300 U
Benzo(a)pyrene	ug/kg				1,560,000 U	31,300 U
Benzo(b)fluoranthene	ug/kg				1,560,000 U	31,300 U
Benzo(g,h,i)perylene	ug/kg				1,560,000 U	31,300 U
Benzo(k)fluoranthene	ug/kg				1,560,000 U	31,300 U
Butylbenzylphthalate	ug/kg				1,560,000 U	31,300 U
Di-n-butylphthalate	ug/kg				1,560,000 U	31,300 U
Di-n-octylphthalate	ug/kg				1,560,000 U	31,300 U
Dibenz(a,h)anthracene	ug/kg				1,560,000 U	31,300 U
Diethylphthalate	ug/kg				1,560,000 U	31,300 U
Dimethylphthalate	ug/kg				1,560,000 U	31,300 U
Fluoranthene	ug/kg				1,560,000 U	31,300 U
Fluorene	ug/kg				1,560,000 U	31,300 U
Hexachloro-1,3-butadiene	ug/kg				1,560,000 U	31,300 U
Hexachlorobenzene	ug/kg				1,560,000 U	31,300 U
Hexachlorocyclopentadiene	ug/kg				1,560,000 U	31,300 U
Hexachloroethane	ug/kg				1,560,000 U	31,300 U
Indeno(1,2,3-cd)pyrene	ug/kg				1,560,000 U	31,300 U
Isophorone	ug/kg				1,560,000 U	31,300 U
Naphthalene	ug/kg				1,560,000 U	31,300 U
Nitrobenzene	ug/kg				1,560,000 U	31,300 U
Pentachloroethane	ug/kg				3,130,000 U	62,600 U
Pentachlorophenol	ug/kg				7,820,000 U	157,000 U
Phenanthrene	ug/kg				1,560,000 U	31,300 U
Phenol	ug/kg				1,560,000 UJ	31,300 UJ
Pyrene	ug/kg				1,560,000 UJ	31,300 U
Pyridine	ug/kg				1,560,000 U	31,300 U
bis(2-Chloroethoxy)methane	ug/kg				1,560,000 U	31,300 U
bis(2-Chloroethyl) ether	ug/kg				1,560,000 U	31,300 U
bis(2-Chloroisopropyl) ether	ug/kg				1,560,000 U	31,300 U
bis(2-Ethylhexyl)phthalate	ug/kg				1,560,000 UJ	31,300 UJ

Data Validation Qualifier Code

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- U - This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
- UJ - This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
- NJ - This analyte has been "tentatively" identified. The numeric value represents its approximate concentration.
- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 11						
	TM-SD-53	TM-SD-54	TM-SD-55	TM-SD-56	TM-SD-57	TM-SD-57	
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015	
	Discrete	Discrete	Discrete	Discrete	Composite	Composite	
Compound	Units	South 0-12"	Inaccessible	North 0-12"	Inaccessible	0-12"	Inaccessible
VOC							
1,1,1,2-Tetrachloroethane	ug/kg	583	U		410	U	
1,1,1-Trichloroethane	ug/kg	583	U		410	U	
1,1,2,2-Tetrachloroethane	ug/kg	583	U		410	U	
1,1,2-Trichloroethane	ug/kg	583	U		410	U	
1,1-Dichloroethane	ug/kg	583	U		410	U	
1,1-Dichloroethene	ug/kg	583	U		410	U	
1,2-Dichloroethane	ug/kg	583	UJ		410	UJ	
1,2-Dichloropropane	ug/kg	583	U		410	U	
2-Butanone (MEK)	ug/kg	1,170	U		820	U	
2-Hexanone	ug/kg	1,170	U		820	U	
4-Methyl-2-pentanone (MIBK)	ug/kg	1,170	U		820	U	
Acetone	ug/kg	849	J		820	U	
Benzene	ug/kg	583	U		410	U	
Bromoform	ug/kg	583	U		410	U	
Carbon disulfide	ug/kg	583	U		410	U	
Carbon tetrachloride	ug/kg	583	U		410	U	
Chlorobenzene	ug/kg	2,410			410	U	
Chloroethane	ug/kg	583	U		410	U	
Chloroform	ug/kg	583	U		410	U	
Ethylbenzene	ug/kg	583	U		410	U	
Methylene Chloride	ug/kg	583	UJ		410	UJ	
Tetrachloroethene	ug/kg	583	U		410	U	
Toluene	ug/kg	583	U		410	U	
Trichloroethene	ug/kg	583	U		410	U	
Vinyl chloride	ug/kg	583	U		410	U	
Xylene (Total)	ug/kg	1,120	J		1,230	U	
cis-1,3-Dichloropropene	ug/kg	583	U		410	U	
trans-1,2-Dichloroethene	ug/kg	583	U		410	U	
trans-1,3-Dichloropropene	ug/kg	583	U		410	U	
Metals							
Antimony	mg/kg	2.00	UJ		19.70		
Arsenic	mg/kg	26.90			9.10		
Barium	mg/kg	195.00			47.50		
Beryllium	mg/kg	0.08	B		0.12	B	
Cadmium	mg/kg	1.70			0.84		
Chromium	mg/kg	2,350.00			286.00		
Cobalt	mg/kg	12.70			8.50		
Copper	mg/kg	366.00			186.00		
Lead	mg/kg	145.00	J+		59.00		
Nickel	mg/kg	159.00			101.00		
Selenium	mg/kg	3.10			1.90		
Silver	mg/kg	12.70			3.60		
Thallium	mg/kg	3.30	U		1.70	U	
Tin	mg/kg	3,510.00	J+		1,090.00		
Vanadium	mg/kg	21.70			45.10		
Zinc	mg/kg	403.00			790.00		
Chromium, Hexavalent	mg/kg	1.90	R		1.40	R	
Mercury	mg/kg	0.43			0.02	J	
PCB							
PCB-1016 (Aroclor 1016)	mg/kg						3.21 U
PCB-1221 (Aroclor 1221)	mg/kg						3.21 U
PCB-1232 (Aroclor 1232)	mg/kg						3.21 U
PCB-1242 (Aroclor 1242)	mg/kg						3.21 U
PCB-1248 (Aroclor 1248)	mg/kg						3.21 U
PCB-1254 (Aroclor 1254)	mg/kg						3.21 U
Cyanide							
Cyanide	mg/kg						1.1 J-

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 11					
	TM-SD-53	TM-SD-54	TM-SD-55	TM-SD-56	TM-SD-57	TM-SD-57
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Units	South 0-12"	Inaccessible	North 0-12"	Inaccessible	0-12"	Inaccessible
Compound	ug/kg					
SVOC						
1,2,4-Trichlorobenzene	ug/kg				1,300,000	U
1,2-Dichlorobenzene	ug/kg				1,300,000	U
1,3-Dichlorobenzene	ug/kg				1,300,000	U
1,4-Dichlorobenzene	ug/kg				1,300,000	U
2,4,5-Trichlorophenol	ug/kg				1,300,000	U
2,4,6-Trichlorophenol	ug/kg				1,300,000	U
2,4-Dichlorophenol	ug/kg				1,300,000	U
2,4-Dimethylphenol	ug/kg				1,300,000	U
2,4-Dinitrophenol	ug/kg				6,500,000	UJ
2,4-Dinitrotoluene	ug/kg				1,300,000	U
2,6-Dinitrotoluene	ug/kg				1,300,000	U
2-Chloronaphthalene	ug/kg				1,300,000	U
2-Chlorophenol	ug/kg				1,300,000	U
2-Methylnaphthalene	ug/kg				1,300,000	U
2-Methylphenol(o-Cresol)	ug/kg				1,300,000	U
2-Nitrophenol	ug/kg				1,300,000	U
3&4-Methylphenol(m&p Cresol)	ug/kg				1,300,000	U
3,3'-Dichlorobenzidine	ug/kg				6,500,000	U
3,3'-Dimethylbenzidine	ug/kg				13,000,000	U
4,6-Dinitro-2-methylphenol	ug/kg				2,600,000	U
4-Bromophenylphenyl ether	ug/kg				1,300,000	U
4-Chloro-3-methylphenol	ug/kg				2,600,000	U
4-Chlorophenylphenyl ether	ug/kg				1,300,000	U
4-Nitrophenol	ug/kg				6,500,000	U
Acenaphthene	ug/kg				1,300,000	U
Acenaphthylene	ug/kg				1,300,000	U
Anthracene	ug/kg				1,300,000	U
Benzo(a)anthracene	ug/kg				1,300,000	U
Benzo(a)pyrene	ug/kg				1,300,000	U
Benzo(b)fluoranthene	ug/kg				1,300,000	U
Benzo(g,h,i)perylene	ug/kg				1,300,000	U
Benzo(k)fluoranthene	ug/kg				1,300,000	U
Butylbenzylphthalate	ug/kg				1,300,000	U
Di-n-butylphthalate	ug/kg				1,300,000	U
Di-n-octylphthalate	ug/kg				1,300,000	U
Dibenz(a,h)anthracene	ug/kg				1,300,000	U
Diethylphthalate	ug/kg				1,300,000	U
Dimethylphthalate	ug/kg				1,300,000	U
Fluoranthene	ug/kg				1,300,000	U
Fluorene	ug/kg				1,300,000	U
Hexachloro-1,3-butadiene	ug/kg				1,300,000	U
Hexachlorobenzene	ug/kg				1,300,000	U
Hexachlorocyclopentadiene	ug/kg				1,300,000	U
Hexachloroethane	ug/kg				1,300,000	U
Indeno(1,2,3-cd)pyrene	ug/kg				1,300,000	U
Isophorone	ug/kg				1,300,000	U
Naphthalene	ug/kg				1,300,000	U
Nitrobenzene	ug/kg				1,300,000	U
Pentachloroethane	ug/kg				2,600,000	U
Pentachlorophenol	ug/kg				6,500,000	U
Phenanthrene	ug/kg				1,300,000	U
Phenol	ug/kg				1,300,000	UJ
Pyrene	ug/kg				1,300,000	UJ
Pyridine	ug/kg				1,300,000	U
bis(2-Chloroethoxy)methane	ug/kg				1,300,000	U
bis(2-Chloroethyl) ether	ug/kg				1,300,000	U
bis(2-Chloroisopropyl) ether	ug/kg				1,300,000	U
bis(2-Ethylhexyl)phthalate	ug/kg				1,300,000	UJ

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 12											
	TM-SD-58		TM-SD-59		TM-SD-60		TM-SD-61		TM-SD-62		TM-SD-62	
	4/17/2015		8/13/2015		4/20/2015		8/13/2015		4/20/2015		8/13/2015	
	Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		Inaccessible		North 0-12"		North 3.5-4.5'		0-12"		3.5-4.5'		
Compound	Units											
VOC												
1,1,1,2-Tetrachloroethane	ug/kg	406	U			436	U	878	U			
1,1,1-Trichloroethane	ug/kg	406	U			436	U	878	U			
1,1,2,2-Tetrachloroethane	ug/kg	406	U			436	U	878	U			
1,1,2-Trichloroethane	ug/kg	406	U			436	U	878	U			
1,1-Dichloroethane	ug/kg	406	U			436	U	878	U			
1,1-Dichloroethene	ug/kg	406	U			436	U	878	U			
1,2-Dichloroethane	ug/kg	406	U			436	UJ	878	U			
1,2-Dichloropropane	ug/kg	406	U			436	U	878	U			
2-Butanone (MEK)	ug/kg	812	U			871	U	1,760	U			
2-Hexanone	ug/kg	812	UJ			871	U	1,760	U			
4-Methyl-2-pentanone (MIBK)	ug/kg	812	U			871	U	1,760	U			
Acetone	ug/kg	812	UJ			589	J	1,760	U			
Benzene	ug/kg	406	U			436	U	840	J			
Bromoform	ug/kg	406	U			436	U	878	U			
Carbon disulfide	ug/kg	406	U			436	U	878	U			
Carbon tetrachloride	ug/kg	406	U			436	U	878	U			
Chlorobenzene	ug/kg	406	U			834		5,690				
Chloroethane	ug/kg	406	U			436	U	878	U			
Chloroform	ug/kg	406	U			436	U	878	U			
Ethylbenzene	ug/kg	406	U			436	U	878	U			
Methylene Chloride	ug/kg	406	UJ			436	UJ	878	U			
Tetrachloroethene	ug/kg	406	U			436	U	878	U			
Toluene	ug/kg	406	U			436	U	309	J			
Trichloroethene	ug/kg	406	U			436	U	878	U			
Vinyl chloride	ug/kg	406	U			436	U	878	U			
Xylene (Total)	ug/kg	1,220	U			1,200	J	3,340				
cis-1,3-Dichloropropene	ug/kg	406	U			436	U	878	U			
trans-1,2-Dichloroethene	ug/kg	406	U			436	U	878	U			
trans-1,3-Dichloropropene	ug/kg	406	U			436	U	878	U			
Metals												
Antimony	mg/kg	1.20	UJ			5.40		12.40	UJ			
Arsenic	mg/kg	18.00				12.40		30.70				
Barium	mg/kg	114.00				59.90		172.00				
Beryllium	mg/kg	0.30				0.14	B	0.12	B			
Cadmium	mg/kg	5.30				0.43		8.70	J			
Chromium	mg/kg	1,690.00				590.00		3,620.00				
Cobalt	mg/kg	9.00				10.60		13.60				
Copper	mg/kg	331.00				248.00		562.00	J			
Lead	mg/kg	224.00	J+			55.20		240.00	J			
Nickel	mg/kg	96.20				111.00		192.00	J			
Selenium	mg/kg	2.30				1.50		3.20	J			
Silver	mg/kg	7.40				6.00		12.00				
Thallium	mg/kg	2.00	U			2.20	U	4.10	U			
Tin	mg/kg	1,340.00	J+			1,520.00		2,640.00	J			
Vanadium	mg/kg	73.60				37.50		23.70				
Zinc	mg/kg	1,280.00				332.00		1,110.00	J			
Chromium, Hexavalent	mg/kg	1.70	R			1.70	R	2.30	UJ			
Mercury	mg/kg	0.24				0.34		0.41				
PCB												
PCB-1016 (Aroclor 1016)	mg/kg								3.75	U	5.06	U
PCB-1221 (Aroclor 1221)	mg/kg								3.75	U	5.06	U
PCB-1232 (Aroclor 1232)	mg/kg								3.75	U	5.06	U
PCB-1242 (Aroclor 1242)	mg/kg								3.75	U	5.06	U
PCB-1248 (Aroclor 1248)	mg/kg								3.75	U	5.06	U
PCB-1254 (Aroclor 1254)	mg/kg								3.75	U	3.70	J
Cyanide												
Cyanide	mg/kg								6.9	J-	18.7	

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 12					
	TM-SD-58	TM-SD-59	TM-SD-60	TM-SD-61	TM-SD-62	TM-SD-62
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Units	South 0-12"	Inaccessible	North 0-12"	North 3.5-4.5'	0-12"	3.5-4.5'
Compound	ug/kg					
SVOC						
1,2,4-Trichlorobenzene	ug/kg				1,620,000 U	35,200 U
1,2-Dichlorobenzene	ug/kg				1,620,000 U	35,200 U
1,3-Dichlorobenzene	ug/kg				1,620,000 U	35,200 U
1,4-Dichlorobenzene	ug/kg				1,620,000 U	35,200 U
2,4,5-Trichlorophenol	ug/kg				1,620,000 U	35,200 U
2,4,6-Trichlorophenol	ug/kg				1,620,000 U	35,200 U
2,4-Dichlorophenol	ug/kg				1,620,000 U	35,200 U
2,4-Dimethylphenol	ug/kg				1,620,000 U	35,200 U
2,4-Dinitrophenol	ug/kg				8,080,000 UJ	176,000 U
2,4-Dinitrotoluene	ug/kg				1,620,000 U	35,200 U
2,6-Dinitrotoluene	ug/kg				1,620,000 U	35,200 U
2-Chloronaphthalene	ug/kg				1,620,000 U	35,200 U
2-Chlorophenol	ug/kg				1,620,000 U	35,200 U
2-Methylnaphthalene	ug/kg				1,620,000 U	35,200 U
2-Methylphenol(o-Cresol)	ug/kg				1,620,000 U	35,200 U
2-Nitrophenol	ug/kg				1,620,000 U	35,200 U
3&4-Methylphenol(m&p Cresol)	ug/kg				1,620,000 U	35,200 U
3,3'-Dichlorobenzidine	ug/kg				8,080,000 U	176,000 U
3,3'-Dimethylbenzidine	ug/kg				16,200,000 U	352,000 U
4,6-Dinitro-2-methylphenol	ug/kg				3,230,000 U	70,300 U
4-Bromophenylphenyl ether	ug/kg				1,620,000 U	35,200 U
4-Chloro-3-methylphenol	ug/kg				3,230,000 U	70,300 U
4-Chlorophenylphenyl ether	ug/kg				1,620,000 U	35,200 U
4-Nitrophenol	ug/kg				8,080,000 U	176,000 U
Acenaphthene	ug/kg				1,620,000 U	35,200 U
Acenaphthylene	ug/kg				1,620,000 U	35,200 U
Anthracene	ug/kg				1,620,000 U	35,200 U
Benzo(a)anthracene	ug/kg				1,620,000 U	35,200 U
Benzo(a)pyrene	ug/kg				1,620,000 U	35,200 U
Benzo(b)fluoranthene	ug/kg				1,620,000 U	35,200 U
Benzo(g,h,i)perylene	ug/kg				1,620,000 U	35,200 U
Benzo(k)fluoranthene	ug/kg				1,620,000 U	35,200 U
Butylbenzylphthalate	ug/kg				1,620,000 U	35,200 U
Di-n-butylphthalate	ug/kg				1,620,000 U	35,200 U
Di-n-octylphthalate	ug/kg				1,620,000 U	35,200 U
Dibenz(a,h)anthracene	ug/kg				1,620,000 U	35,200 U
Diethylphthalate	ug/kg				1,620,000 U	35,200 U
Dimethylphthalate	ug/kg				1,620,000 U	35,200 U
Fluoranthene	ug/kg				1,620,000 U	35,200 U
Fluorene	ug/kg				1,620,000 U	35,200 U
Hexachloro-1,3-butadiene	ug/kg				1,620,000 U	35,200 U
Hexachlorobenzene	ug/kg				1,620,000 U	35,200 U
Hexachlorocyclopentadiene	ug/kg				1,620,000 U	35,200 U
Hexachloroethane	ug/kg				1,620,000 U	35,200 U
Indeno(1,2,3-cd)pyrene	ug/kg				1,620,000 U	35,200 U
Isophorone	ug/kg				1,620,000 U	35,200 U
Naphthalene	ug/kg				1,620,000 U	35,200 U
Nitrobenzene	ug/kg				1,620,000 U	35,200 U
Pentachloroethane	ug/kg				3,230,000 U	70,300 U
Pentachlorophenol	ug/kg				8,080,000 U	176,000 U
Phenanthrene	ug/kg				1,620,000 U	35,200 U
Phenol	ug/kg				1,620,000 UJ	35,200 U
Pyrene	ug/kg				1,620,000 UJ	35,200 U
Pyridine	ug/kg				1,620,000 U	35,200 U
bis(2-Chloroethoxy)methane	ug/kg				1,620,000 U	35,200 U
bis(2-Chloroethyl) ether	ug/kg				1,620,000 U	35,200 U
bis(2-Chloroisopropyl) ether	ug/kg				1,620,000 U	35,200 U
bis(2-Ethylhexyl)phthalate	ug/kg				1,620,000 UJ	35,200 U

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 13											
	TM-SD-63		TM-SD-64		TM-SD-65		TM-SD-66		TM-SD-67		TM-SD-67	
	4/17/2015		8/13/2015		4/20/2015		8/13/2015		4/20/2015		8/13/2015	
	Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 5-6"		North 0-12"		North 6-7"		0-12"		5-7"		
Compound	Units											
VOC												
1,1,1,2-Tetrachloroethane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
1,1,1-Trichloroethane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
1,1,2,2-Tetrachloroethane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
1,1,2-Trichloroethane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
1,1-Dichloroethane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
1,1-Dichloroethene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
1,2-Dichloroethane	ug/kg	569	U	1,440	UJ	671	UJ	1,030	U			
1,2-Dichloropropane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
2-Butanone (MEK)	ug/kg	1,140	U	2,870	UJ	1,340	U	2,060	U			
2-Hexanone	ug/kg	1,140	UJ	2,870	UJ	1,340	U	2,060	U			
4-Methyl-2-pentanone (MIBK)	ug/kg	1,140	U	2,870	UJ	1,340	U	2,060	U			
Acetone	ug/kg	1,140	UJ	2,870	UJ	1,340	U	2,060	U			
Benzene	ug/kg	569	U	1,440	UJ	671	U	346	J			
Bromoform	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Carbon disulfide	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Carbon tetrachloride	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Chlorobenzene	ug/kg	3,300	UJ	2,210	J	671	U	2,300				
Chloroethane	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Chloroform	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Ethylbenzene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Methylene Chloride	ug/kg	569	UJ	1,440	UJ	671	UJ	1,030	U			
Tetrachloroethene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Toluene	ug/kg	569	U	831	J	671	U	1,030	U			
Trichloroethene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Vinyl chloride	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Xylene (Total)	ug/kg	2,080		4,910	J	2,010	U	908	J			
cis-1,3-Dichloropropene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
trans-1,2-Dichloroethene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
trans-1,3-Dichloropropene	ug/kg	569	U	1,440	UJ	671	U	1,030	U			
Metals												
Antimony	mg/kg	0.52	UJ	24.00	UJ	1.40	U	11.90	UJ			
Arsenic	mg/kg	24.60		132.00	J	9.60		20.70				
Barium	mg/kg	166.00		783.00	J	36.60		98.50				
Beryllium	mg/kg	0.08	B	0.15	B	0.10	B	0.07	B			
Cadmium	mg/kg	0.16	B	3.40	J	0.58	J	3.30	J			
Chromium	mg/kg	3,190.00		15,000.00	J	1,240.00		3,720.00				
Cobalt	mg/kg	12.10		9.00	J	14.80		14.50				
Copper	mg/kg	263.00		604.00	J	220.00		351.00	J			
Lead	mg/kg	59.10	J+	364.00	J	53.90		108.00	J			
Nickel	mg/kg	141.00		132.00	J	150.00		170.00	J			
Selenium	mg/kg	1.90		5.00	J	1.80	U	3.40	J			
Silver	mg/kg	8.90		20.90	J	7.60		8.80				
Thallium	mg/kg	1.70	U	8.00	UJ	4.60	U	4.00	U			
Tin	mg/kg	2,880.00	J+	39,400.00	J	1,120.00		3,620.00	J			
Vanadium	mg/kg	31.80		64.80		35.80		28.20				
Zinc	mg/kg	284.00		709.00	J	635.00		915.00	J			
Chromium, Hexavalent	mg/kg	1.60	R	4.90	UJ	3.10	R	2.20	UJ			
Mercury	mg/kg	0.30	J-	0.97	J	0.29	J	0.37				
PCB												
PCB-1016 (Aroclor 1016)	mg/kg							5.13	UJ	5.00	U	
PCB-1221 (Aroclor 1221)	mg/kg							5.13	UJ	5.00	U	
PCB-1232 (Aroclor 1232)	mg/kg							5.13	UJ	5.00	U	
PCB-1242 (Aroclor 1242)	mg/kg							5.13	UJ	5.00	U	
PCB-1248 (Aroclor 1248)	mg/kg							5.13	UJ	5.00	U	
PCB-1254 (Aroclor 1254)	mg/kg							5.13	UJ	2.96	J	
Cyanide												
Cyanide	mg/kg							4.9	J-	9.1		

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 13						
	TM-SD-63	TM-SD-64	TM-SD-65	TM-SD-66	TM-SD-67	TM-SD-67	
	4/17/2015	8/13/2015	4/20/2015	8/13/2015	4/20/2015	8/13/2015	
	Discrete	Discrete	Discrete	Discrete	Composite	Composite	
Compound	Units	South 0-12"	South 5-6"	North 0-12"	North 6-7"	0-12"	5-7"
SVOC							
1,2,4-Trichlorobenzene	ug/kg					2,250,000	UJ 34,700 U
1,2-Dichlorobenzene	ug/kg					2,250,000	UJ 34,700 U
1,3-Dichlorobenzene	ug/kg					2,250,000	UJ 34,700 U
1,4-Dichlorobenzene	ug/kg					2,250,000	UJ 34,700 U
2,4,5-Trichlorophenol	ug/kg					2,250,000	UJ 34,700 U
2,4,6-Trichlorophenol	ug/kg					2,250,000	UJ 34,700 U
2,4-Dichlorophenol	ug/kg					2,250,000	UJ 34,700 U
2,4-Dimethylphenol	ug/kg					2,250,000	UJ 34,700 U
2,4-Dinitrophenol	ug/kg					11,200,000	UJ 173,000 U
2,4-Dinitrotoluene	ug/kg					2,250,000	UJ 34,700 U
2,6-Dinitrotoluene	ug/kg					2,250,000	UJ 34,700 U
2-Chloronaphthalene	ug/kg					2,250,000	UJ 34,700 U
2-Chlorophenol	ug/kg					2,250,000	UJ 34,700 U
2-Methylnaphthalene	ug/kg					2,250,000	UJ 34,700 U
2-Methylphenol(o-Cresol)	ug/kg					2,250,000	UJ 34,700 U
2-Nitrophenol	ug/kg					2,250,000	UJ 34,700 U
3&4-Methylphenol(m&p Cresol)	ug/kg					2,250,000	UJ 34,700 U
3,3'-Dichlorobenzidine	ug/kg					11,200,000	UJ 173,000 U
3,3'-Dimethylbenzidine	ug/kg					22,500,000	UJ 347,000 U
4,6-Dinitro-2-methylphenol	ug/kg					4,500,000	UJ 69,300 U
4-Bromophenylphenyl ether	ug/kg					2,250,000	UJ 34,700 U
4-Chloro-3-methylphenol	ug/kg					4,500,000	UJ 69,300 U
4-Chlorophenylphenyl ether	ug/kg					2,250,000	UJ 34,700 U
4-Nitrophenol	ug/kg					11,200,000	UJ 173,000 U
Acenaphthene	ug/kg					2,250,000	UJ 34,700 U
Acenaphthylene	ug/kg					2,250,000	UJ 34,700 U
Anthracene	ug/kg					2,250,000	UJ 34,700 U
Benzo(a)anthracene	ug/kg					2,250,000	UJ 34,700 U
Benzo(a)pyrene	ug/kg					2,250,000	UJ 34,700 U
Benzo(b)fluoranthene	ug/kg					2,250,000	UJ 34,700 U
Benzo(g,h,i)perylene	ug/kg					2,250,000	UJ 34,700 U
Benzo(k)fluoranthene	ug/kg					2,250,000	UJ 34,700 U
Butylbenzylphthalate	ug/kg					2,250,000	UJ 34,700 U
Di-n-butylphthalate	ug/kg					2,250,000	UJ 34,700 U
Di-n-octylphthalate	ug/kg					2,250,000	UJ 34,700 U
Dibenz(a,h)anthracene	ug/kg					2,250,000	UJ 34,700 U
Diethylphthalate	ug/kg					2,250,000	UJ 34,700 U
Dimethylphthalate	ug/kg					2,250,000	UJ 34,700 U
Fluoranthene	ug/kg					2,250,000	UJ 34,700 U
Fluorene	ug/kg					2,250,000	UJ 34,700 U
Hexachloro-1,3-butadiene	ug/kg					2,250,000	UJ 34,700 U
Hexachlorobenzene	ug/kg					2,250,000	UJ 34,700 U
Hexachlorocyclopentadiene	ug/kg					2,250,000	UJ 34,700 U
Hexachloroethane	ug/kg					2,250,000	UJ 34,700 U
Indeno(1,2,3-cd)pyrene	ug/kg					2,250,000	UJ 34,700 U
Isophorone	ug/kg					2,250,000	UJ 34,700 U
Naphthalene	ug/kg					2,250,000	UJ 34,700 U
Nitrobenzene	ug/kg					2,250,000	UJ 34,700 U
Pentachloroethane	ug/kg					4,500,000	UJ 69,300 U
Pentachlorophenol	ug/kg					11,200,000	UJ 173,000 U
Phenanthrene	ug/kg					2,250,000	UJ 34,700 U
Phenol	ug/kg					2,250,000	UJ 34,700 U
Pyrene	ug/kg					2,250,000	UJ 34,700 U
Pyridine	ug/kg					2,250,000	UJ 34,700 U
bis(2-Chloroethoxy)methane	ug/kg					2,250,000	UJ 34,700 U
bis(2-Chloroethyl) ether	ug/kg					2,250,000	UJ 34,700 U
bis(2-Chloroisopropyl) ether	ug/kg					2,250,000	UJ 34,700 U
bis(2-Ethylhexyl)phthalate	ug/kg					2,250,000	UJ 34,700 U

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 14											
	TM-SD-68		TM-SD-69		TM-SD-70		TM-SD-71		TM-SD-72		TM-SD-72	
	4/17/2015		8/13/2015		4/17/2015		8/13/2015		4/17/2015		8/13/2015	
	Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 5-6"		North 0-12"		Inaccessible		0-12"		5-6"		
Compound	Units											
VOC												
1,1,1,2-Tetrachloroethane	ug/kg	861	U	614	U	570	U					
1,1,1-Trichloroethane	ug/kg	861	U	614	U	570	U					
1,1,2,2-Tetrachloroethane	ug/kg	861	U	614	U	570	U					
1,1,2-Trichloroethane	ug/kg	861	U	614	U	570	U					
1,1-Dichloroethane	ug/kg	861	U	614	U	570	U					
1,1-Dichloroethene	ug/kg	861	U	614	U	570	U					
1,2-Dichloroethane	ug/kg	861	UJ	614	U	570	U					
1,2-Dichloropropane	ug/kg	861	U	614	U	570	U					
2-Butanone (MEK)	ug/kg	1,720	U	1,230	U	1,140	U					
2-Hexanone	ug/kg	1,720	U	1,230	U	1,140	UJ					
4-Methyl-2-pentanone (MIBK)	ug/kg	1,720	U	1,230	U	1,140	U					
Acetone	ug/kg	1,720	U	1,230	U	1,140	UJ					
Benzene	ug/kg	861	U	318	J	4,590						
Bromoform	ug/kg	861	U	614	U	570	U					
Carbon disulfide	ug/kg	861	U	614	U	570	U					
Carbon tetrachloride	ug/kg	861	U	614	U	570	U					
Chlorobenzene	ug/kg	861	U	236	J	570	U					
Chloroethane	ug/kg	861	U	614	U	570	U					
Chloroform	ug/kg	861	U	614	U	570	U					
Ethylbenzene	ug/kg	861	U	217	J	1,430						
Methylene Chloride	ug/kg	861	UJ	614	U	570	UJ					
Tetrachloroethene	ug/kg	861	U	614	U	570	U					
Toluene	ug/kg	861	U	614	U	570	U					
Trichloroethene	ug/kg	861	U	614	U	570	U					
Vinyl chloride	ug/kg	861	U	614	U	570	U					
Xylene (Total)	ug/kg	2,580	U	826	J	1,340	J					
cis-1,3-Dichloropropene	ug/kg	861	U	614	U	570	U					
trans-1,2-Dichloroethene	ug/kg	861	U	614	U	570	U					
trans-1,3-Dichloropropene	ug/kg	861	U	614	U	570	U					
Metals												
Antimony	mg/kg	1.40	UJ	1.00	UJ	0.79	UJ					
Arsenic	mg/kg	18.10		26.60		6.00						
Barium	mg/kg	80.50		145.00		34.80						
Beryllium	mg/kg	0.47	U	0.35	U	0.08	B					
Cadmium	mg/kg	0.93		1.10	J	0.64						
Chromium	mg/kg	1,940.00		2,460.00		617.00						
Cobalt	mg/kg	9.40		6.90		11.20						
Copper	mg/kg	235.00		193.00	J	198.00						
Lead	mg/kg	99.10	J+	90.70	J	66.30	J+					
Nickel	mg/kg	108.00		73.40	J	113.00						
Selenium	mg/kg	1.90	U	2.50	J	1.30						
Silver	mg/kg	7.00		5.90		6.00						
Thallium	mg/kg	4.70	U	3.50	U	2.60	U					
Tin	mg/kg	2,830.00	J+	6,280.00	J	1,070.00	J+					
Vanadium	mg/kg	53.60		29.70		34.20						
Zinc	mg/kg	1,270.00		342.00	J	1,030.00						
Chromium, Hexavalent	mg/kg	2.90	R	1.70	UJ	2.00	R					
Mercury	mg/kg	0.51	J-	0.04	J	0.25	J-					
PCB												
PCB-1016 (Aroclor 1016)	mg/kg							5.59	UJ	7.45	UD3	
PCB-1221 (Aroclor 1221)	mg/kg							5.59	UJ	7.45	UD3	
PCB-1232 (Aroclor 1232)	mg/kg							5.59	UJ	7.45	UD3	
PCB-1242 (Aroclor 1242)	mg/kg							5.59	UJ	7.45	UD3	
PCB-1248 (Aroclor 1248)	mg/kg							5.59	UJ	7.45	UD3	
PCB-1254 (Aroclor 1254)	mg/kg							5.59	UJ	7.45	UD3	
Cyanide												
Cyanide	mg/kg							1.8	J-	4.1		

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 14					
	TM-SD-68	TM-SD-69	TM-SD-70	TM-SD-71	TM-SD-72	TM-SD-72
	4/17/2015	8/13/2015	4/17/2015	8/13/2015	4/17/2015	8/13/2015
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Units	South 0-12"	South 5-6"	North 0-12"	Inaccessible	0-12"	5-6"
Compound	ug/kg					
SVOC						
1,2,4-Trichlorobenzene	ug/kg				2,570,000	UJ 26,000 U
1,2-Dichlorobenzene	ug/kg				2,570,000	UJ 26,000 U
1,3-Dichlorobenzene	ug/kg				2,570,000	UJ 26,000 U
1,4-Dichlorobenzene	ug/kg				2,570,000	UJ 26,000 U
2,4,5-Trichlorophenol	ug/kg				2,570,000	UJ 26,000 U
2,4,6-Trichlorophenol	ug/kg				2,570,000	UJ 26,000 U
2,4-Dichlorophenol	ug/kg				2,570,000	UJ 26,000 U
2,4-Dimethylphenol	ug/kg				2,570,000	UJ 26,000 U
2,4-Dinitrophenol	ug/kg				12,900,000	UJ 130,000 U
2,4-Dinitrotoluene	ug/kg				2,570,000	UJ 26,000 U
2,6-Dinitrotoluene	ug/kg				2,570,000	UJ 26,000 U
2-Chloronaphthalene	ug/kg				2,570,000	UJ 26,000 U
2-Chlorophenol	ug/kg				2,570,000	UJ 26,000 U
2-Methylnaphthalene	ug/kg				2,570,000	UJ 26,000 U
2-Methylphenol(o-Cresol)	ug/kg				2,570,000	UJ 26,000 U
2-Nitrophenol	ug/kg				2,570,000	UJ 26,000 U
3&4-Methylphenol(m&p Cresol)	ug/kg				2,570,000	UJ 26,000 U
3,3'-Dichlorobenzidine	ug/kg				12,900,000	UJ 130,000 U
3,3'-Dimethylbenzidine	ug/kg				25,700,000	UJ 260,000 U
4,6-Dinitro-2-methylphenol	ug/kg				5,150,000	R 52,100 U
4-Bromophenylphenyl ether	ug/kg				2,570,000	UJ 26,000 U
4-Chloro-3-methylphenol	ug/kg				5,150,000	UJ 52,100 U
4-Chlorophenylphenyl ether	ug/kg				2,570,000	UJ 26,000 U
4-Nitrophenol	ug/kg				12,900,000	UJ 130,000 U
Acenaphthene	ug/kg				2,570,000	UJ 26,000 U
Acenaphthylene	ug/kg				2,570,000	UJ 26,000 U
Anthracene	ug/kg				2,570,000	UJ 26,000 U
Benzo(a)anthracene	ug/kg				2,570,000	UJ 26,000 U
Benzo(a)pyrene	ug/kg				2,570,000	UJ 26,000 U
Benzo(b)fluoranthene	ug/kg				2,570,000	UJ 26,000 U
Benzo(g,h,i)perylene	ug/kg				2,570,000	UJ 26,000 U
Benzo(k)fluoranthene	ug/kg				2,570,000	UJ 26,000 U
Butylbenzylphthalate	ug/kg				2,570,000	UJ 26,000 U
Di-n-butylphthalate	ug/kg				2,570,000	UJ 26,000 U
Di-n-octylphthalate	ug/kg				2,570,000	UJ 26,000 U
Dibenz(a,h)anthracene	ug/kg				2,570,000	UJ 26,000 U
Diethylphthalate	ug/kg				2,570,000	UJ 26,000 U
Dimethylphthalate	ug/kg				2,570,000	UJ 26,000 U
Fluoranthene	ug/kg				2,570,000	UJ 26,000 U
Fluorene	ug/kg				2,570,000	UJ 26,000 U
Hexachloro-1,3-butadiene	ug/kg				2,570,000	UJ 26,000 U
Hexachlorobenzene	ug/kg				2,570,000	UJ 26,000 U
Hexachlorocyclopentadiene	ug/kg				2,570,000	UJ 26,000 U
Hexachloroethane	ug/kg				2,570,000	UJ 26,000 U
Indeno(1,2,3-cd)pyrene	ug/kg				2,570,000	UJ 26,000 U
Isophorone	ug/kg				2,570,000	UJ 26,000 U
Naphthalene	ug/kg				2,570,000	UJ 26,000 U
Nitrobenzene	ug/kg				2,570,000	UJ 26,000 U
Pentachloroethane	ug/kg				5,150,000	UJ 52,100 U
Pentachlorophenol	ug/kg				12,900,000	UJ 130,000 U
Phenanthrene	ug/kg				2,570,000	UJ 26,000 U
Phenol	ug/kg				2,570,000	UJ 26,000 U
Pyrene	ug/kg				2,570,000	UJ 26,000 U
Pyridine	ug/kg				2,570,000	UJ 26,000 U
bis(2-Chloroethoxy)methane	ug/kg				2,570,000	UJ 26,000 U
bis(2-Chloroethyl) ether	ug/kg				2,570,000	UJ 26,000 U
bis(2-Chloroisopropyl) ether	ug/kg				2,570,000	UJ 26,000 U
bis(2-Ethylhexyl)phthalate	ug/kg				2,570,000	UJ 26,000 U

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- Y - This analyte coelutes with another target compound on the two chromatographic columns used for analysis.
- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 15											
		TM-SD-73		TM-SD-74		TM-SD-75		TM-SD-76		TM-SD-77		TM-SD-77	
		4/17/2015		8/14/2015		4/17/2015		8/14/2015		4/17/2015		8/14/2015	
		Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 5-6"		North 0-12"		North 3-4'		0-12"		3-6'			
Compound	Units												
VOC													
1,1,1,2-Tetrachloroethane	ug/kg	393	U	562	U	410	U	328	U				
1,1,1-Trichloroethane	ug/kg	393	U	562	U	410	U	328	U				
1,1,2,2-Tetrachloroethane	ug/kg	393	U	562	U	410	U	328	U				
1,1,2-Trichloroethane	ug/kg	393	U	562	U	410	U	328	U				
1,1-Dichloroethane	ug/kg	393	U	562	U	410	U	328	U				
1,1-Dichloroethene	ug/kg	393	U	562	U	410	U	328	U				
1,2-Dichloroethane	ug/kg	393	U	562	U	410	U	328	U				
1,2-Dichloropropane	ug/kg	393	U	562	U	410	U	328	U				
2-Butanone (MEK)	ug/kg	786	U	1,120	R	820	U	657	R				
2-Hexanone	ug/kg	786	UJ	1,120	UJ	820	UJ	657	UJ				
4-Methyl-2-pentanone (MIBK)	ug/kg	786	U	1,120	UJ	820	U	657	UJ				
Acetone	ug/kg	786	UJ	1,120	U	820	UJ	657	U				
Benzene	ug/kg	393	U	562	U	410	U	328	U				
Bromoform	ug/kg	393	U	562	U	410	U	328	U				
Carbon disulfide	ug/kg	393	U	562	U	410	U	328	U				
Carbon tetrachloride	ug/kg	393	U	562	U	410	U	328	U				
Chlorobenzene	ug/kg	1,960	U	562	U	410	U	328	U				
Chloroethane	ug/kg	393	U	562	U	410	U	328	U				
Chloroform	ug/kg	393	U	562	U	410	U	328	U				
Ethylbenzene	ug/kg	393	U	562	U	410	U	328	U				
Methylene Chloride	ug/kg	393	UJ	562	UJ	410	UJ	328	UJ				
Tetrachloroethene	ug/kg	393	U	562	U	410	U	328	U				
Toluene	ug/kg	393	U	756	U	410	U	328	U				
Trichloroethene	ug/kg	393	U	562	U	410	U	328	U				
Vinyl chloride	ug/kg	393	U	562	U	410	U	328	U				
Xylene (Total)	ug/kg	1,180	U	3,260	U	1,230	U	985	U				
cis-1,3-Dichloropropene	ug/kg	393	U	562	U	410	U	328	U				
trans-1,2-Dichloroethene	ug/kg	393	U	562	U	410	U	328	U				
trans-1,3-Dichloropropene	ug/kg	393	U	562	U	410	U	328	U				
Metals													
Antimony	mg/kg	0.67	UJ	1.40	U	7.90	J-	11.40	U				
Arsenic	mg/kg	10.80		24.10		8.80		27.60					
Barium	mg/kg	44.40		266.00		35.60		182.00					
Beryllium	mg/kg	0.10	B	0.21	J	0.09	B	0.73					
Cadmium	mg/kg	0.69		2.20		0.95		4.50					
Chromium	mg/kg	898.00		7,120.00	MI	901.00		1,990.00					
Cobalt	mg/kg	13.90		9.60		12.10		16.00					
Copper	mg/kg	250.00		382.00		203.00		293.00					
Lead	mg/kg	88.80	J+	268.00	J	81.40	J+	475.00	J				
Nickel	mg/kg	133.00		124.00		123.00		59.20					
Selenium	mg/kg	1.70		4.60		1.70		3.40					
Silver	mg/kg	8.00		12.70		2.40		7.10					
Thallium	mg/kg	2.20	U	4.50	U	2.70	U	3.80	U				
Tin	mg/kg	1,230.00	J+	4,560.00	MI	1,500.00	J+	5,260.00					
Vanadium	mg/kg	47.10		49.50		46.20		133.00					
Zinc	mg/kg	1,060.00		858.00	MI	1,270.00		1,480.00					
Chromium, Hexavalent	mg/kg	1.60	R	2.70	UJ	1.80	R	2.20	UJ				
Mercury	mg/kg	0.18	J-	0.72	J-	0.25	J-	0.50	J-				
PCB													
PCB-1016 (Aroclor 1016)	mg/kg							3.21	U	2.39	U		
PCB-1221 (Aroclor 1221)	mg/kg							3.21	U	2.39	U		
PCB-1232 (Aroclor 1232)	mg/kg							3.21	U	2.39	U		
PCB-1242 (Aroclor 1242)	mg/kg							3.21	U	3.29			
PCB-1248 (Aroclor 1248)	mg/kg							3.21	U	2.39	U		
PCB-1254 (Aroclor 1254)	mg/kg							3.21	U	2.79			
Cyanide													
Cyanide	mg/kg							2.9	J-	4.5	J		

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TMC Sediment Sampling Work Plan Addendum

Table 1

		Transect 15					
Sample Identification		TM-SD-73	TM-SD-74	TM-SD-75	TM-SD-76	TM-SD-77	TM-SD-77
Sample Date		4/17/2015	8/14/2015	4/17/2015	8/14/2015	4/17/2015	8/14/2015
Sample Type		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth		South 0-12"	South 5-6'	North 0-12"	North 3-4'	0-12"	3-6'
Compound	Units						
SVOC							
1,2,4-Trichlorobenzene	ug/kg					158,000 U	3,300 U
1,2-Dichlorobenzene	ug/kg					158,000 U	3,300 U
1,3-Dichlorobenzene	ug/kg					158,000 U	3,300 UJ
1,4-Dichlorobenzene	ug/kg					158,000 U	3,300 U
2,4,5-Trichlorophenol	ug/kg					158,000 U	3,300 U
2,4,6-Trichlorophenol	ug/kg					158,000 UJ	3,300 U
2,4-Dichlorophenol	ug/kg					158,000 U	3,300 U
2,4-Dimethylphenol	ug/kg					158,000 U	3,300 U
2,4-Dinitrophenol	ug/kg					789,000 U	16,500 U
2,4-Dinitrotoluene	ug/kg					158,000 U	3,300 U
2,6-Dinitrotoluene	ug/kg					158,000 UJ	3,300 U
2-Chloronaphthalene	ug/kg					158,000 U	3,300 U
2-Chlorophenol	ug/kg					158,000 U	3,300 U
2-Methylnaphthalene	ug/kg					158,000 U	3,300 U
2-Methylphenol(o-Cresol)	ug/kg					158,000 U	3,300 U
2-Nitrophenol	ug/kg					158,000 UJ	3,300 U
3&4-Methylphenol(m&p Cresol)	ug/kg					158,000 U	3,300 U
3,3'-Dichlorobenzidine	ug/kg					789,000 U	16,500 U
3,3'-Dimethylbenzidine	ug/kg					1,580,000 U	33,000 U
4,6-Dinitro-2-methylphenol	ug/kg					315,000 R	6,600 U
4-Bromophenylphenyl ether	ug/kg					158,000 U	3,300 U
4-Chloro-3-methylphenol	ug/kg					315,000 U	6,600 U
4-Chlorophenylphenyl ether	ug/kg					158,000 U	3,300 U
4-Nitrophenol	ug/kg					789,000 UJ	16,500 U
Acenaphthene	ug/kg					158,000 U	3,300 U
Acenaphthylene	ug/kg					158,000 U	3,300 U
Anthracene	ug/kg					158,000 U	3,300 U
Benzo(a)anthracene	ug/kg					158,000 U	3,300 U
Benzo(a)pyrene	ug/kg					158,000 U	3,300 U
Benzo(b)fluoranthene	ug/kg					158,000 U	3,300 U
Benzo(g,h,i)perylene	ug/kg					158,000 U	3,300 U
Benzo(k)fluoranthene	ug/kg					158,000 U	3,300 U
Butylbenzylphthalate	ug/kg					158,000 UJ	3,300 U
Di-n-butylphthalate	ug/kg					158,000 U	3,300 U
Di-n-octylphthalate	ug/kg					158,000 U	3,300 U
Dibenz(a,h)anthracene	ug/kg					158,000 U	3,300 U
Diethylphthalate	ug/kg					158,000 U	3,300 U
Dimethylphthalate	ug/kg					158,000 U	3,300 U
Fluoranthene	ug/kg					158,000 U	3,300 U
Fluorene	ug/kg					158,000 U	3,300 U
Hexachloro-1,3-butadiene	ug/kg					158,000 U	3,300 UJ
Hexachlorobenzene	ug/kg					158,000 U	3,300 U
Hexachlorocyclopentadiene	ug/kg					158,000 UJ	3,300 UJ
Hexachloroethane	ug/kg					158,000 U	3,300 U
Indeno(1,2,3-cd)pyrene	ug/kg					158,000 U	3,300 U
Isophorone	ug/kg					158,000 U	3,300 U
Naphthalene	ug/kg					158,000 U	3,300 U
Nitrobenzene	ug/kg					158,000 U	3,300 U
Pentachloroethane	ug/kg					315,000 U	6,600 U
Pentachlorophenol	ug/kg					789,000 UJ	16,500 U
Phenanthrene	ug/kg					158,000 U	910 J
Phenol	ug/kg					158,000 U	3,300 U
Pyrene	ug/kg					158,000 U	3,300 U
Pyridine	ug/kg					158,000 U	3,300 U
bis(2-Chloroethoxy)methane	ug/kg					158,000 U	3,300 U
bis(2-Chloroethyl) ether	ug/kg					158,000 U	3,300 U
bis(2-Chloroisopropyl) ether	ug/kg					158,000 U	3,300 U
bis(2-Ethylhexyl)phthalate	ug/kg					158,000 U	3,300 U

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 16											
	TM-SD-79		TM-SD-80		TM-SD-81		TM-SD-82		TM-SD-83		TM-SD-83	
	4/17/2015		8/14/2015		4/17/2015		8/14/2015		4/17/2015		8/14/2015	
	Discrete		Discrete		Discrete		Discrete		Composite		Composite	
South 0-12"		South 5.5-6.5"		North 0-12"		North 5-6"		0-12"		5-6.5"		
Compound	Units											
VOC												
1,1,1,2-Tetrachloroethane	ug/kg	488	U	342	U	300	U	337	U			
1,1,1-Trichloroethane	ug/kg	488	U	342	U	300	U	337	U			
1,1,2,2-Tetrachloroethane	ug/kg	488	U	342	U	300	U	337	U			
1,1,2-Trichloroethane	ug/kg	488	U	342	U	300	U	337	U			
1,1-Dichloroethane	ug/kg	488	U	342	UJ	300	U	337	U			
1,1-Dichloroethene	ug/kg	488	U	342	U	300	U	337	U			
1,2-Dichloroethane	ug/kg	488	U	342	U	300	UJ	337	U			
1,2-Dichloropropane	ug/kg	488	U	342	U	300	U	337	U			
2-Butanone (MEK)	ug/kg	976	U	684	R	600	U	673	R			
2-Hexanone	ug/kg	976	UJ	684	UJ	600	U	673	UJ			
4-Methyl-2-pentanone (MIBK)	ug/kg	976	U	684	UJ	600	U	673	UJ			
Acetone	ug/kg	976	UJ	684	UJ	600	U	673	U			
Benzene	ug/kg	488	U	342	U	300	U	337	U			
Bromoform	ug/kg	488	U	342	U	300	U	337	U			
Carbon disulfide	ug/kg	488	U	342	UJ	300	U	337	U			
Carbon tetrachloride	ug/kg	488	U	342	U	300	U	337	U			
Chlorobenzene	ug/kg	488	U	342	U	300	U	337	U			
Chloroethane	ug/kg	488	U	342	UJ	300	U	337	U			
Chloroform	ug/kg	488	U	342	U	300	U	337	U			
Ethylbenzene	ug/kg	488	U	342	U	300	U	337	U			
Methylene Chloride	ug/kg	488	UJ	342	UJ	300	UJ	337	UJ			
Tetrachloroethene	ug/kg	488	U	342	U	300	U	337	U			
Toluene	ug/kg	488	U	21,800		300	U	721				
Trichloroethene	ug/kg	488	U	342	U	300	U	337	U			
Vinyl chloride	ug/kg	488	U	342	U	300	U	337	U			
Xylene (Total)	ug/kg	1,460	U	1,030	U	899	U	1,010	U			
cis-1,3-Dichloropropene	ug/kg	488	U	342	U	300	U	337	U			
trans-1,2-Dichloroethene	ug/kg	488	U	342	UJ	300	U	337	U			
trans-1,3-Dichloropropene	ug/kg	488	U	342	U	300	U	337	U			
Metals												
Antimony	mg/kg	0.65	UJ	8.10	U	1.10	UJ	5.10	U			
Arsenic	mg/kg	12.00		22.90		8.60		14.10				
Barium	mg/kg	112.00		55.00		83.70		17.50				
Beryllium	mg/kg	0.13	B	0.09	B	0.32		0.07	B			
Cadmium	mg/kg	5.00		2.40		2.40		2.00				
Chromium	mg/kg	384.00		5,980.00		615.00		5,280.00				
Cobalt	mg/kg	12.60		16.90		7.80		19.10				
Copper	mg/kg	188.00		239.00		119.00		214.00				
Lead	mg/kg	260.00	J+	148.00	J	122.00	J+	113.00	J			
Nickel	mg/kg	122.00		508.00		67.00		322.00				
Selenium	mg/kg	1.50		2.50		1.60		2.80				
Silver	mg/kg	8.00		11.00		4.20		6.10				
Thallium	mg/kg	2.20	U	2.70	U	1.90	U	1.70	U			
Tin	mg/kg	478.00	J+	2,740.00		303.00	J+	309.00				
Vanadium	mg/kg	62.40		41.20		175.00		69.10				
Zinc	mg/kg	5,080.00	R	2,530.00		2,310.00		1,040.00				
Chromium, Hexavalent	mg/kg	1.70	R	1.50	UJ	1.50	R	1.50	UJ			
Mercury	mg/kg	0.21	J-	0.25	J-	0.15		0.07	J-			
PCB												
PCB-1016 (Aroclor 1016)	mg/kg							4.02	U	1.61	U	
PCB-1221 (Aroclor 1221)	mg/kg							4.02	U	1.61	U	
PCB-1232 (Aroclor 1232)	mg/kg							4.02	U	1.61	U	
PCB-1242 (Aroclor 1242)	mg/kg							4.02	U	2.80	U	
PCB-1248 (Aroclor 1248)	mg/kg							4.02	U	1.61	U	
PCB-1254 (Aroclor 1254)	mg/kg							4.02	U	1.20	J	
Cyanide												
Cyanide	mg/kg							2.5	J-	5.0	J	

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Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 16							
	TM-SD-79	TM-SD-80	TM-SD-81	TM-SD-82	TM-SD-83	TM-SD-83		
	4/17/2015	8/14/2015	4/17/2015	8/14/2015	4/17/2015	8/14/2015		
	Discrete	Discrete	Discrete	Discrete	Composite	Composite		
Units	South 0-12"	South 5.5-6.5'	North 0-12"	North 5-6'	0-12"	5-6.5'		
Compound								
SVOC								
1,2,4-Trichlorobenzene	ug/kg				166,000	U	3,300	U
1,2-Dichlorobenzene	ug/kg				166,000	U	3,300	U
1,3-Dichlorobenzene	ug/kg				166,000	U	3,300	UJ
1,4-Dichlorobenzene	ug/kg				166,000	U	3,300	U
2,4,5-Trichlorophenol	ug/kg				166,000	U	3,300	U
2,4,6-Trichlorophenol	ug/kg				166,000	UJ	3,300	U
2,4-Dichlorophenol	ug/kg				166,000	U	3,300	U
2,4-Dimethylphenol	ug/kg				166,000	U	3,300	U
2,4-Dinitrophenol	ug/kg				830,000	U	16,500	U
2,4-Dinitrotoluene	ug/kg				166,000	U	3,300	U
2,6-Dinitrotoluene	ug/kg				166,000	UJ	3,300	U
2-Chloronaphthalene	ug/kg				166,000	U	3,300	U
2-Chlorophenol	ug/kg				166,000	U	3,300	U
2-Methylnaphthalene	ug/kg				166,000	U	3,300	U
2-Methylphenol (o-Cresol)	ug/kg				166,000	U	3,300	U
2-Nitrophenol	ug/kg				166,000	UJ	3,300	U
3&4-Methylphenol(m&p Cresol)	ug/kg				166,000	U	3,300	U
3,3'-Dichlorobenzidine	ug/kg				830,000	U	16,500	U
3,3'-Dimethylbenzidine	ug/kg				1,660,000	U	33,000	U
4,6-Dinitro-2-methylphenol	ug/kg				332,000	R	6,600	U
4-Bromophenylphenyl ether	ug/kg				166,000	U	3,300	U
4-Chloro-3-methylphenol	ug/kg				332,000	U	6,600	U
4-Chlorophenylphenyl ether	ug/kg				166,000	U	3,300	U
4-Nitrophenol	ug/kg				830,000	UJ	16,500	U
Acenaphthene	ug/kg				166,000	U	3,300	U
Acenaphthylene	ug/kg				166,000	U	3,300	U
Anthracene	ug/kg				166,000	U	3,300	U
Benzo(a)anthracene	ug/kg				166,000	U	3,300	U
Benzo(a)pyrene	ug/kg				166,000	U	3,300	U
Benzo(b)fluoranthene	ug/kg				166,000	U	3,300	U
Benzo(g,h,i)perylene	ug/kg				166,000	U	3,300	U
Benzo(k)fluoranthene	ug/kg				166,000	U	3,300	U
Butylbenzylphthalate	ug/kg				166,000	UJ	3,300	U
Di-n-butylphthalate	ug/kg				166,000	U	3,300	U
Di-n-octylphthalate	ug/kg				166,000	U	3,300	U
Dibenz(a,h)anthracene	ug/kg				166,000	U	3,300	U
Diethylphthalate	ug/kg				166,000	U	3,300	U
Dimethylphthalate	ug/kg				166,000	U	3,300	U
Fluoranthene	ug/kg				166,000	U	3,300	U
Fluorene	ug/kg				166,000	U	3,300	U
Hexachloro-1,3-butadiene	ug/kg				166,000	U	3,300	U
Hexachlorobenzene	ug/kg				166,000	U	3,300	U
Hexachlorocyclopentadiene	ug/kg				166,000	UJ	3,300	UJ
Hexachloroethane	ug/kg				166,000	U	3,300	U
Indeno(1,2,3-cd)pyrene	ug/kg				166,000	U	3,300	U
Isophorone	ug/kg				166,000	U	3,300	U
Naphthalene	ug/kg				166,000	U	3,300	U
Nitrobenzene	ug/kg				166,000	U	3,300	U
Pentachloroethane	ug/kg				332,000	U	6,600	U
Pentachlorophenol	ug/kg				830,000	UJ	16,500	U
Phenanthrene	ug/kg				166,000	U	3,300	U
Phenol	ug/kg				166,000	U	3,300	U
Pyrene	ug/kg				166,000	U	3,300	U
Pyridine	ug/kg				166,000	U	3,300	U
bis(2-Chloroethoxy)methane	ug/kg				166,000	U	3,300	U
bis(2-Chloroethyl) ether	ug/kg				166,000	U	3,300	U
bis(2-Chloroisopropyl) ether	ug/kg				166,000	U	3,300	U
bis(2-Ethylhexyl)phthalate	ug/kg				166,000	U	3,300	U

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- R - The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this compound/analyte in the sample.

TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth		Transect 17					
		TM-SD-84	TM-SD-85	TM-SD-86	TM-SD-87	TM-SD-88	TM-SD-88
		4/20/2015	XX/XX/XXXX	4/20/2015	XX/XX/XXXX	4/20/2015	XX/XX/XXXX
		Discrete	Discrete	Discrete	Discrete	Composite	Composite
Sample Location and Depth		South 0-12"	-----	North 0-12"	-----	0-12"	-----
Compound	Units						
VOC							
1,1,1,2-Tetrachloroethane	ug/kg	383	U		440	U	
1,1,1-Trichloroethane	ug/kg	383	U		440	U	
1,1,2,2-Tetrachloroethane	ug/kg	383	U		440	U	
1,1,2-Trichloroethane	ug/kg	383	U		440	U	
1,1-Dichloroethane	ug/kg	383	U		440	U	
1,1-Dichloroethene	ug/kg	383	U		440	U	
1,2-Dichloroethane	ug/kg	383	U		440	UJ	
1,2-Dichloropropane	ug/kg	383	U		440	U	
2-Butanone (MEK)	ug/kg	765	U		880	U	
2-Hexanone	ug/kg	765	UJ		880	U	
4-Methyl-2-pentanone (MIBK)	ug/kg	765	U		880	U	
Acetone	ug/kg	765	UJ		880	U	
Benzene	ug/kg	383	U		440	U	
Bromoform	ug/kg	383	U		440	U	
Carbon disulfide	ug/kg	383	U		506		
Carbon tetrachloride	ug/kg	383	U		440	U	
Chlorobenzene	ug/kg	383	U		440	U	
Chloroethane	ug/kg	383	U		440	U	
Chloroform	ug/kg	383	U		440	U	
Ethylbenzene	ug/kg	383	U		440	U	
Methylene Chloride	ug/kg	383	UJ		440	UJ	
Tetrachloroethene	ug/kg	383	U		440	U	
Toluene	ug/kg	383	U		440	U	
Trichloroethene	ug/kg	383	U		440	U	
Vinyl chloride	ug/kg	383	U		440	U	
Xylene (Total)	ug/kg	1,740			578	J	
cis-1,3-Dichloropropene	ug/kg	383	U		440	U	
trans-1,2-Dichloroethene	ug/kg	383	U		440	U	
trans-1,3-Dichloropropene	ug/kg	383	U		440	U	
Metals							
Antimony	mg/kg	0.59	UJ		9.90	J-	
Arsenic	mg/kg	17.50			38.50		
Barium	mg/kg	173.00			661.00		
Beryllium	mg/kg	0.73			0.44		
Cadmium	mg/kg	4.30			9.50		
Chromium	mg/kg	1,000.00			588.00		
Cobalt	mg/kg	12.50			27.30		
Copper	mg/kg	205.00			529.00		
Lead	mg/kg	311.00	J+		946.00	J+	
Nickel	mg/kg	337.00			264.00		
Selenium	mg/kg	3.10			2.10		
Silver	mg/kg	3.20			2.80		
Thallium	mg/kg	1.10	J		2.00	U	
Tin	mg/kg	480.00	J+		2,420.00	J+	
Vanadium	mg/kg	133.00			109.00		
Zinc	mg/kg	3,500.00			7,870.00		
Chromium, Hexavalent	mg/kg	1.60	R		1.50	R	
Mercury	mg/kg	0.43			0.23		
PCB							
PCB-1016 (Aroclor 1016)	mg/kg						3.57 U
PCB-1221 (Aroclor 1221)	mg/kg						3.57 U
PCB-1232 (Aroclor 1232)	mg/kg						3.57 U
PCB-1242 (Aroclor 1242)	mg/kg						3.57 U
PCB-1248 (Aroclor 1248)	mg/kg						3.57 U
PCB-1254 (Aroclor 1254)	mg/kg						3.57 U
Cyanide							
Cyanide	mg/kg						1.2 J-

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TMC Sediment Sampling Work Plan Addendum

Table 1

Sample Identification Sample Date Sample Type Sample Location and Depth	Transect 17					
	TM-SD-84	TM-SD-85	TM-SD-86	TM-SD-87	TM-SD-88	TM-SD-88
	4/20/2015	XX/XX/XXXX	4/20/2015	XX/XX/XXXX	4/20/2015	XX/XX/XXXX
	Discrete	Discrete	Discrete	Discrete	Composite	Composite
Compound	Units	South 0-12"	-----	North 0-12"	-----	-----
SVOC						
1,2,4-Trichlorobenzene	ug/kg				1,540,000	U
1,2-Dichlorobenzene	ug/kg				1,540,000	U
1,3-Dichlorobenzene	ug/kg				1,540,000	U
1,4-Dichlorobenzene	ug/kg				1,540,000	U
2,4,5-Trichlorophenol	ug/kg				1,540,000	U
2,4,6-Trichlorophenol	ug/kg				1,540,000	U
2,4-Dichlorophenol	ug/kg				1,540,000	U
2,4-Dimethylphenol	ug/kg				1,540,000	U
2,4-Dinitrophenol	ug/kg				7,720,000	UJ
2,4-Dinitrotoluene	ug/kg				1,540,000	U
2,6-Dinitrotoluene	ug/kg				1,540,000	U
2-Chloronaphthalene	ug/kg				1,540,000	U
2-Chlorophenol	ug/kg				1,540,000	U
2-Methylnaphthalene	ug/kg				1,540,000	U
2-Methylphenol(o-Cresol)	ug/kg				1,540,000	U
2-Nitrophenol	ug/kg				1,540,000	U
3&4-Methylphenol(m&p Cresol)	ug/kg				1,540,000	U
3,3'-Dichlorobenzidine	ug/kg				7,720,000	U
3,3'-Dimethylbenzidine	ug/kg				15,400,000	U
4,6-Dinitro-2-methylphenol	ug/kg				3,090,000	R
4-Bromophenylphenyl ether	ug/kg				1,540,000	U
4-Chloro-3-methylphenol	ug/kg				3,090,000	U
4-Chlorophenylphenyl ether	ug/kg				1,540,000	U
4-Nitrophenol	ug/kg				7,720,000	U
Acenaphthene	ug/kg				1,540,000	U
Acenaphthylene	ug/kg				1,540,000	U
Anthracene	ug/kg				1,540,000	U
Benzo(a)anthracene	ug/kg				1,540,000	U
Benzo(a)pyrene	ug/kg				1,540,000	U
Benzo(b)fluoranthene	ug/kg				1,540,000	U
Benzo(g,h,i)perylene	ug/kg				1,540,000	U
Benzo(k)fluoranthene	ug/kg				1,540,000	U
Butylbenzylphthalate	ug/kg				1,540,000	UJ
Di-n-butylphthalate	ug/kg				1,540,000	U
Di-n-octylphthalate	ug/kg				1,540,000	U
Dibenz(a,h)anthracene	ug/kg				1,540,000	U
Diethylphthalate	ug/kg				1,540,000	U
Dimethylphthalate	ug/kg				1,540,000	U
Fluoranthene	ug/kg				1,540,000	U
Fluorene	ug/kg				1,540,000	U
Hexachloro-1,3-butadiene	ug/kg				1,540,000	U
Hexachlorobenzene	ug/kg				1,540,000	U
Hexachlorocyclopentadiene	ug/kg				1,540,000	U
Hexachloroethane	ug/kg				1,540,000	U
Indeno(1,2,3-cd)pyrene	ug/kg				1,540,000	U
Isophorone	ug/kg				1,540,000	U
Naphthalene	ug/kg				1,540,000	U
Nitrobenzene	ug/kg				1,540,000	UJ
Pentachloroethane	ug/kg				3,090,000	U
Pentachlorophenol	ug/kg				7,720,000	UJ
Phenanthrene	ug/kg				1,540,000	U
Phenol	ug/kg				1,540,000	U
Pyrene	ug/kg				1,540,000	U
Pyridine	ug/kg				1,540,000	U
bis(2-Chloroethoxy)methane	ug/kg				1,540,000	U
bis(2-Chloroethyl) ether	ug/kg				1,540,000	U
bis(2-Chloroisopropyl) ether	ug/kg				1,540,000	U
bis(2-Ethylhexyl)phthalate	ug/kg				1,540,000	U

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TMC Sediment Sampling Work Plan Addendum

Table 2

Sample Designation	Sample Location	Sample Type	Sample Depth	Analysis				
				VOC	SVOC	Metals	PCB	Cyanide
TM-SD-31	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-36	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-41	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-46	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-51	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-57	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-62	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-67	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-72	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-77	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-83	North and South	Composite	Bottom 12" Sediment		X			
TM-SD-88	North and South	Composite	Bottom 12" Sediment		X			

TM-SD-54	South	Discrete	Bottom 12" Sediment	X		X		
TM-SD-56	North	Discrete	Bottom 12" Sediment	X		X		
TM-SD-57	North and South	Composite	Bottom 12" Sediment		X		X	X
TM-SD-59	South	Discrete	Bottom 12" Sediment	X		X		
TM-SD-71	North	Discrete	Bottom 12" Sediment	X		X		

TM-SD-89	Center	Discrete	Top 12" Sediment				X	
TM-SD-90	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-91	Center	Discrete	Top 12" Sediment				X	
TM-SD-92	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-93	Center	Discrete	Top 12" Sediment				X	
TM-SD-94	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-95	Center	Discrete	Top 12" Sediment				X	
TM-SD-96	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-97	Center	Discrete	Top 12" Sediment				X	
TM-SD-98	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-99	Center	Discrete	Top 12" Sediment				X	
TM-SD-100	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-101	Center	Discrete	Top 12" Sediment				X	
TM-SD-102	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-103	Center	Discrete	Top 12" Sediment				X	
TM-SD-104	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-105	Center	Discrete	Top 12" Sediment				X	
TM-SD-106	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-107	Center	Discrete	Top 12" Sediment				X	
TM-SD-108	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-109	Center	Discrete	Top 12" Sediment				X	
TM-SD-110	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-111	Center	Discrete	Top 12" Sediment				X	
TM-SD-112	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-113	Center	Discrete	Top 12" Sediment				X	
TM-SD-114	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-115	Center	Discrete	Top 12" Sediment				X	
TM-SD-116	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-117	Center	Discrete	Top 12" Sediment				X	
TM-SD-118	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-119	Center	Discrete	Top 12" Sediment				X	
TM-SD-120	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-121	Center	Discrete	Top 12" Sediment				X	
TM-SD-122	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-123	Center	Discrete	Top 12" Sediment				X	
TM-SD-124	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-125	Center	Discrete	Top 12" Sediment				X	
TM-SD-126	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-127	Center	Discrete	Top 12" Sediment				X	
TM-SD-128	Center	Discrete	Bottom 12" Sediment				X	
TM-SD-129	Center	Discrete	Top 12" Sediment				X	
TM-SD-130	Center	Discrete	Bottom 12" Sediment				X	

Table 2

Analytical Parameter Lists for Tin Mill Canal Sediment Sampling and Analysis Program

Modified Appendix IX Parameters COPI List

Volatiles (SW846-8260B)	Semivolatiles (SW846-8270)	PCBs (SW846-8082)
1,1,1,2-Tetrachloroethane	1,2,4-Trichlorobenzene	Aroclor 1016
1,1,1-Trichloroethane	1,2-Dichlorobenzene	Aroclor 1221
1,1,2,2-Tetrachloroethane	1,3-Dichlorobenzene	Aroclor 1232
1,1,2-Trichloroethane	1,4-Dichlorobenzene	Aroclor 1242
1,1-Dichloroethane	2,4,5-Trichlorophenol	Aroclor 1248
1,1-Dichloroethene	2,4,6-Trichlorophenol	Aroclor 1254
1,2-Dichloroethane	2,4-Dichlorophenol	Aroclor 1260
1,2-Dichloropropane	2,4-Dimethylphenol	RCRA metals (SW846-6010B) [except as noted]
2-Butanone (Methyl ethyl ketone)	2,4-Dinitrophenol	Antimony (Sb)
2-Hexanone	2,4-Dinitrotoluene	Arsenic (As)
4-Methyl-2-pentanone (MIBK)	2,6-Dinitrotoluene	Barium (Ba)
Acetone	2-Chloronaphthalene	Beryllium (Be)
Benzene	2-Chlorophenol	Cadmium (Cd)
Bromoform	2-Methylnaphthalene	Chromium (Cr)
Carbon disulfide	2-Methylphenol (o-cresol)	Hexavalent Chromium (3060A)
Carbon tetrachloride	2-Nitrophenol	Cobalt (Co)
Chlorobenzene	3,3'-Dichlorobenzidine	Copper (Cu)
Chloroethane	3,3-Dimethylbenzidine	Lead (Pb)
Chloroform	3-Methylphenol	Mercury (Hg) (7470A/7471A)
cis-1,3-Dichloropropene	4 Methylphenol (p cresol)	Nickel (Ni)
Ethylbenzene	4,6-Dinitro-2-methylphenol	Selenium (Se)
Methylene chloride	4-Bromophenyl phenyl ether	Silver (Ag)
Tetrachloroethene	4-Chloro-3-methylphenol	Thallium (Tl)
Toluene	4-Chlorophenyl phenyl ether	Tin (Sn)
trans-1,2-Dichloroethene	4-Nitrophenol	Vanadium (V)
trans-1,3-Dichloropropene	Acenaphthene	Zinc (Zn)
Trichloroethene	Acenaphthylene	Other
Vinyl chloride	Anthracene	Cyanide (SW846-9014)
Xylenes (total)	Benzo(a)anthracene	
	Benzo(a)pyrene	
	Benzo(b)fluoranthene	
	Benzo(ghi)perylene	
	Benzo(k)fluoranthene	
	Bis(2-chloroethoxy)methane	
	Bis(2-chloroethyl)ether	
	Bis(2-chloroisopropyl)ether	
	Bis(2-ethylhexyl)phthalate	
	Butyl benzyl phthalate	
	Dibenz(a,h)anthracene	
	Diethyl phthalate	
	Dimethyl phthalate	
	Di-n-butyl phthalate	
	Di-n-octyl phthalate	
	Fluoranthene	
	Fluorene	
	Hexachlorobenzene	
	Hexachlorobutadiene	
	Hexachlorocyclopentadiene	
	Hexachloroethane	
	Indeno(1,2,3-cd)pyrene	
	Isophorone	
	Naphthalene	
	Nitrobenzene	
	Pentachloroethane	
	Pentachlorophenol	
	Phenanthrene	
	Phenol	
	Pyrene	
	Pyridine	

Figures



EnviroAnalytics
Group
Environmental Engineers

1 inch = 500 feet

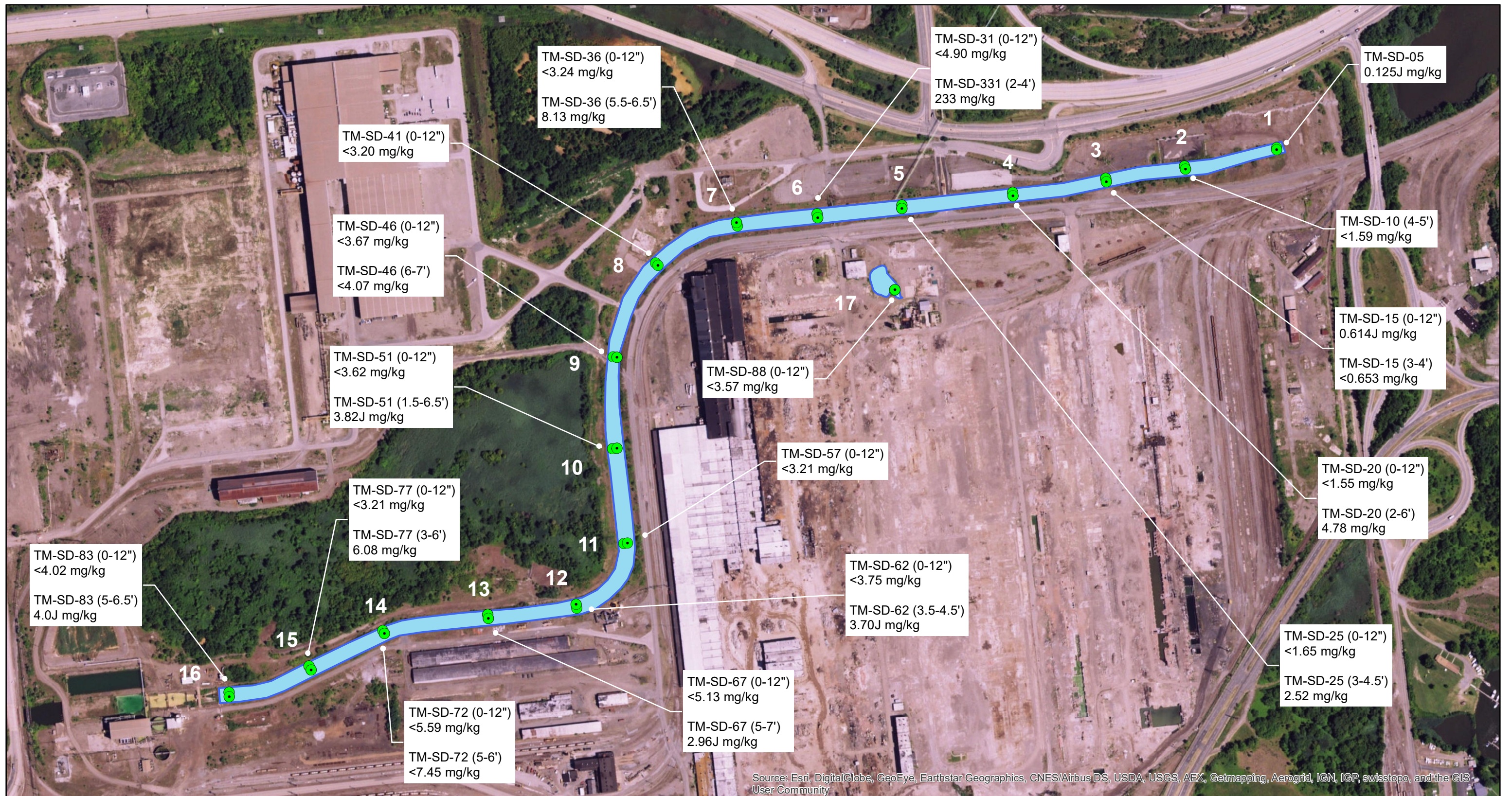
0 250 500 750 1,000
Feet

Tin Mill Canal Transect Location Map

Legend

- Sediment Sampling Locations (Previously Sampled)
- Tin Mill Canal Extent

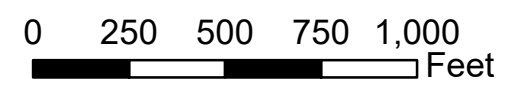
Figure
1



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



1 inch = 500 feet

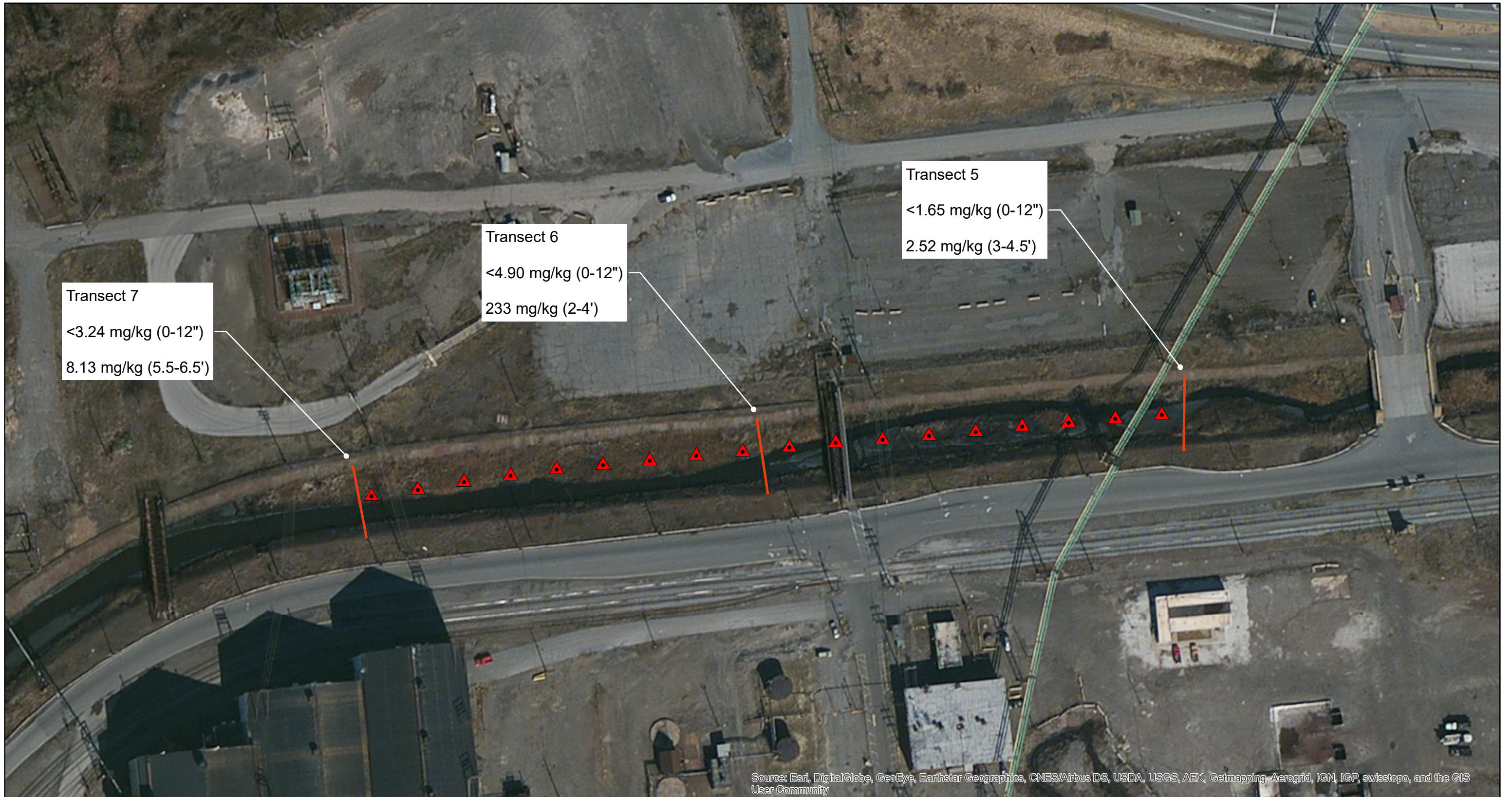


Tin Mill Canal Sediment Sampling Total PCB Results

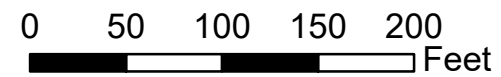
Legend

- Sediment Sampling Locations (Previously Sampled)
- Tin Mill Canal Extent

Figure
2



1 inch = 100 feet



Tin Mill Canal PCB Delineation Proposed Sample Locations

Legend

- ▲ PCB Delineation Sample Locations
- Sampling Transects

PCB results referenced are Total PCB from previous sampling event