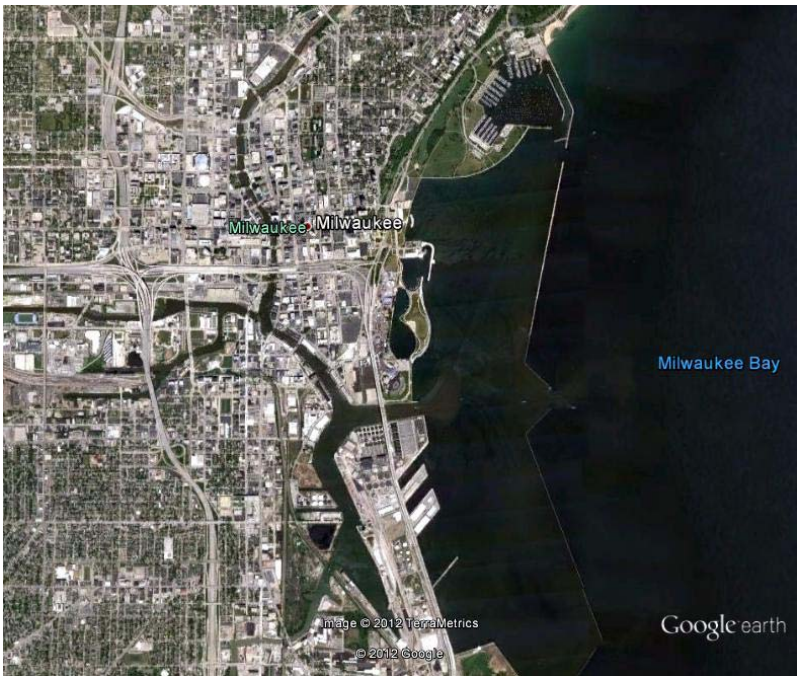
Milwaukee Sediment Sampling and Analysis Report
Milwaukee, WI

August 2011

Contract No. W911XK-11-D-0005
Task Order # 0001



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- RTI Harbor Sediment Grain Size Analysis Report (WO 1108A20)

1.0 INTRODUCTION

The U.S. Army Corps of Engineers, Detroit District (USACE) retained RTI Laboratories. Inc. (RTI) as a contractor to provide sediment sampling analytical services for samples collected from within the Federal Navigation Channel in Milwaukee, Wisconsin **(Appendix A)**. The purpose of this project was to characterize sediments located in the Federal Navigation Channel. This information will be used by the District to select the proper site specific removal and disposal practices. RTI and its subcontractor, GLEC, provided sediment sampling services, including sediment logging. RTI, provided the project management along with the chemical and geotechnical analytical services.

The Sampling team mobilized and assembled in Milwaukee on Tuesday 23 August 2011. Sampling was performed from Wednesday 24 August through Friday 26 August 2011. The sampling crew (RTI Team) consisted of three (3) people: Matthew Tuynman from RTI, and David Rosier and Dave Johns from Great Lakes Environmental Center (GLEC). GLEC was retained by RTI to provide and operate sediment sampling equipment (pontoon boat, Vibracore sampler and ponar sampler).

Sampling, sample handling, and analytical procedures were conducted in accordance with the Scope of Work (SOW) and specifications of the current USACE Contract No. W911XK-11-D-0005 Task Order # 0001 in addition to "Methods for Evaluating Solid Waste", 3rd ED, U.S. EPA No. SW-846 and "Description of Soils (Visual-Manual Procedure)", ASTM D 2488-69.

A total of 23 sediment and native water samples for the elutriate sample preparation were collected during three (3) days of sampling. The water for the elutriate preparation was collected from each sample location, approximately half way between the water surface and the bottom surface. The background water was collected close to sample location MW-11-01. Seven (7) samples from seven (7) locations were collected using a ponar sampler. The other 16 samples from 13 locations were collected using the vibracore sampling equipment. Three locations produced sample cores of the soft sediment, collected using the vibracore equipment, that were

long enough to be split into an upper and lower sample. These are sample locations MW-11-14+15, MW-11-17+18 and MW-11-20+21.

- Sample locations MW-11-1, 4, 5, 8, 10, 11 and 12 were collected using the ponar sampler.
- Sample locations MW-11-02, 3, 6, 7, 9, and 13 through 23 were collected using vibracore sampling equipment.

This report provides documentation of the field survey and describes the field activities that occurred, the samples collected, and the conditions encountered during the survey. This report also includes the laboratory's reports. **Appendix B – Tables 1 through 3** presents the chemical analytical results summary tables and sediment grain size analysis summary table respectively for the sediment samples collected as well as the elutriate procedure data.

RTI Team maintained a field logbook for this project. A typed copy of the field logbook form is included as **Appendix C**. Sediment boring logs, including photos, are included in **Appendix D.** Supplemental station photographs are included in **Appendix E.**

Appendix F contains the RTI Analytical Report, with chain-of-custody forms and the Grain Size Analysis Report.

All related bench notebooks and data are retained for this Task Order. The raw data, bench sheets and narratives, along with the detailed review of the data are presented as a supplement to this report and a complete data package with associated quality control data and quality assurance summary.

2.0 SITE DESCRIPTION

Milwaukee Harbor is located on the east coast of Wisconsin on the shore of Lake Michigan, approximately 40 miles north of the Illinois-Wisconsin State line **(Appendix A)**. The harbor is

protected by a set of long break walls, with one major opening at the river channel egress and smaller openings for flow relief. There are a number of hotels, marinas, Event Centers, many commercial facilities, and medium to heavy industrial use buildings supporting the local economy along the Federal Navigation Channel and within the break walls.

3.0 SAMPLE COLLECTION – HARBOR SEDIMENT SAMPLES

The field survey and sampling activities were conducted according to the SOW for the Milwaukee Harbor, as prepared and refined based on discussions with the USACE Detroit District Project Coordinator, Ms. Pam Horner.

3.1 Survey Preparation

The SOW developed by the USACE required sediment sampling at 20 stations located within the Federal Navigation Channel of the Milwaukee Harbor. Three (3) of these samples, collected from deeper shoaling area, were to be were to be split into upper and lower core samples. The native water used for the elutriate procedure would be collected from the river channel, close to the mouth of the river and within the breakwall protected harbor. The samples were to be collected from and area described in **Appendix A**, Figures 3. In order to organize the sampling effort and prepare the sample containers, RTI developed a sampling plan based on the SOW.

The sampling plan summarized the channel dredge depth elevation, estimated amount of sediment and native water required for analysis; sampling equipment, sample locations, analysis parameters, containers required, sampling preservation requirements, chain-of-custody, health and safety plans, and shipment of the samples. Sampling involved the collection of approximately four (4) liters of sediment for each sample. All samples were handled as discreet samples, well mixed, decanted and placed into sample containers on the boat.

Proposed analytical parameters for sediment samples included: chlorinated pesticides, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), elutriate procedure, organic indicators kit, metals kit, nutrients kit, and physical kit including grain size analysis (sieve

analysis w/o hydrometer) (Appendix F). The four (4) one-liter containers of sediment were used for the chemical, elutriate and physical tests.

RTI Team mobilized on Tuesday August 23, 2011 with all equipment and materials required for collecting and processing custody samples. RTI personnel confirmed with the utility companies the locations of any underground utilities crossing the proposed sample locations in the harbor.

3.2 Field Documentation

Field conditions, activities, and field data were documented in a field logbook. Information recorded in the logbook includes:

- Station identification number
- Sample collection date, and names of the sampling team
- Depth at each sampling location
- Thickness of each core retrieved
- A description, measurement and identification of the material of each core retrieved according to ASTM D 2488-69, "Description of Soils (Visual Manual Procedure)"
- Types of sampling equipment used
- Latitude and Longitude of station locations
- Time of sample collection
- Identification number of the sample photograph

Prior to collecting sediment samples, sample coordinates were determined by using a Global Positioning System (GPS) unit. The water depth was measured by using a depth finder recording the nearest one tenth foot increment. Reference water level data (in feet) were obtained from the NOAA/NOS Web site to correct for subsurface levels. The nearest NOAA water level reference station for the Milwaukee Harbor area is Milwaukee, WI (# 9087057).

Digital, color photographs (Appendix E) were taken of all sediment samples, prior to mixing them, to indicate color, texture and homogeneity. These photographs are included in the RTI core logs.

3.3 Weather/Climatic Conditions

The air temperature during the three-day period of sampling activities (24-26 August 2011) was an average of 80°F on 24 August 2011 and 69°F on both 25 & 26 August 2011. The sky condition was predominantly cloudy and windy on Wednesday and Friday, 24 & 26 August 2011, and partly cloudy with lights winds on Thursday, 25 August 2011. The high winds on Wednesday slowed some of the initial sampling efforts. The water turbidity in Lake Huron is low and water clarity was good, with visibility of five feet (5 ft) or more. The sky condition on Thursday, June 25, 2009 was overcast, raining, with lightning and thunder. The water turbidity level was high in the harbor and water clarity was poor, with visibility of two feet (2 ft) or less.

The maximum wind speed on Wednesday 24 August 2011 was 32 mph, while the wind speed for the next tow days decreased to a maximum of 17 and 14 mph, respectively.

The Low Water Datum (LWD) of Lake Michigan was listed as 577.5 feet from the International Great Lakes Datum 1985 (IGLD 1985). The corrected bottom surface elevation is presented on the core logs for each site.

Data obtained from National Ocean-Atmosphere Administration's (NOAA) website stated:

- Station 9087057 Milwaukee WI recorded that water levels fluctuated between 577.89 ft to 578.33 ft from 24-26 August 2011. Similar observances were obtained for the individual days.

3.4 Sample Locations

Sampling activity was initiated by navigating to the coordinates of the predetermined sample location. Sample locations were determined at the site based on areas of likely shoaling. Once the sampling vessel was located, time, depth, and GPS location were recorded.

3.5 Sample Collection

The samples were collected over three (3) days. The harbor samples were collected on 24-26 August 2011 using either a ponar dredge or a deck mounted vibracore unit. The samples were collected from a pontoon boat with all the sampling equipment, locating anchors, and sample splitting compositing materials.

3.5.1 Sampling Procedures

The Ponar was lowered in a controlled fashion to the sediment to obtain the samples that presented more densely compacted sediment. The pin holding the Ponar open was released by upward pressure on the sample line. The Ponar was then winched back to the boat. The Ponar collects surface sediment samples up to six inches (6 in) thick. Approximately three to four drops were required to collect enough sample for the required analysis. Samples MW-11-1, 4, 5, 8, 10, 11 and 12 were collected using the ponar sampler.

Sample locations MW-11-02, 3, 6, 7, 9, and 13 through 23 were collected using vibracore sampling equipment. A solid rod was used to determine the soft sediment thickness by pushing the rod into the sediment. The Vibracore sampling equipment was then used to collect an adequate sample volume for the required analysis.

Water samples for the elutriate procedure were collected at each site prior to disturbing the surface of the sediment. Approximately 2.5 gallons of water were collected from each location using a peristaltic pump with a weighted strainer. The sample depth was approximately half way between the water level and the surface of the sediment.

Sampling equipment was decontaminated after each sample was processed using alconox, followed by a water rinse. The decontamination procedure included scrubbing and rinsing sampling equipment with site water and using new gloves for each sample location. New CAP tubing was used for each boring collected with the vibracore equipment.

3.5.2 Field Logbook

The field forms and the logbook were filled out completely, recording each sample before leaving each sample location. The NOAA reference water levels were confirmed upon return to the office. The typed field form is included in **Appendix C**. Typed sediment boring logs are included in **Appendix D**.

3.5.3 Photographic Log

At least one (1) digital color photograph was taken for each aggregate sample, prior to homogenizing the material in the mixing pan. The photographic procedures are as follows. The pan was oriented so as to minimize shadows and glare on the wet sample. One of the photographs is included on each core log **(Appendix D)**.

3.5.4 Sample Containers and Sample Preservation

All samples were collected and stored in laboratory supplied HDPE or glass containers with tight fitting closures. All sample containers were cooled using ice stored in zip lock bags to 4°C, and stored in darkness, except transiently during handling operations. Chain-of-custody was maintained during sampling activities. Based upon the proposed analysis parameters, none of the samples required additional chemical or physical preservation other than ice. Samples were kept on ice overnight and shipped the following morning. These samples were processed by the laboratory each morning that they were received. Samples collected on Friday, 26 August 2011 were kept on ice and delivered to the lab Friday evening and placed in one of the coolers for processing on Saturday morning.

3.5.5 Sample Custody

Chain-of-custody over samples was maintained at all times **(Appendix F)**. Procedures for sample packaging, shipping, and chain-of-custody followed the guidelines as listed in the U.S Army

Corps of Engineers Sample Handling Protocol for Low, Medium and High Concentration Samples of Hazardous Waste, dated October 1986. Samples for this project were considered to be low level / environmental samples for safety, packaging and shipping purposes.

Sample containers were carefully packed to prevent breakage. The samples were placed in sturdy leak-proof coolers with ice stored in zip lock bags. Each signed chain-of-custody was stored in a zip lock bag and place inside each cooler. The coolers were then sealed with signed chain-of-custody seals. The coolers were shipped, insured by FedEx to the appropriate laboratory for chemical and physical analysis.

4.0 SEDIMENT AND ELUTRIATE ANALYTICAL RESULTS

The Milwaukee Harbor sediment samples were sent under chain-of-custody to RTI in Livonia, Michigan. RTI analyzed the sediment samples for organochlorine pesticides, PCBs, semi-volatile organic compounds (SVOA), metals kit, organic indicators kit, physical kit and nutrients kit. Laboratory analytical results are summarized in **Table 1 (Appendix B)** for the chemical analytical results of the harbor sediment samples. An elutriate procedure and subsequent filtering of the water was completed for each sediment sample. The background water was also tested for the same parameters and the elutriate samples. These elutriate samples were analyzed by RTI for organochlorine pesticides, PCBs, (SVOA), metals kit, organic indicators kit and nutrients kit. Laboratory analytical results are summarized in **Table 2 (Appendix B)** for the chemical analytical results of the elutriate samples. The harbor sediment samples were also analyzed by RTI for grain size as part of the physical indicators kit. The laboratory analytical results for the grain size are summarized in **Table 3 (Appendix B)**. The detailed laboratory analytical report and chain-of-custody documentation for all these tests are included in **Appendix F**.

4.1 Quality Assurance / Quality Control

Data quality refers to the level of uncertainty associated with a particular data point. All of the elements of the sampling event, from the sampling design through the laboratory analysis and

reporting, affect the quality of the data. Data quality associated with environmental measurement is a function of the sampling plan rationale and procedures used to collect and homogenize the samples, as well as, the analytical methods and instrumentation used in procuring the measurements. Uncertainty cannot be eliminated from environmental data. However, quality assurance programs effective in measuring uncertainty in data are employed to monitor and control deviations from the desired data quality objectives.

Sources of uncertainty that can be traced to the sampling component include poor sampling plan design, incorrect sample handling, faulty sample transportation, and inconsistent use of standard operating procedures. The most common sources of uncertainty that can be traced to the analytical component of the total measurement system are problems associated with calibration, non target matrix interference, and external contamination.

Laboratory terms concerning quality control include:

- BLK – Method Blank (prepared with batch of samples)
- CCV - Continuing calibration verification (ongoing calibration standard)
- CCB - Continuing calibration blank (ongoing blank verification)
- LCS – Laboratory Control Sample (prepared with batch of samples)
- LCSD – Laboratory Control Sample Duplicate (prepared with batch of samples)
- MS – Matrix Spike (only applies to the spiked sample and its parent)
- MSD – Matrix Spike Duplicate (only applies to the spiked sample and its parent)
- % R - % Recovery (a measure of accuracy or known recovery)
- RPD – Relative Percent Difference (a measure of precision between samples)

For a spiked QC sample (LCS, LCSD, MS, MSD), the sample or blank material is spiked with a known concentration prior to extraction. This is a test of accuracy based on the recovery of the known spike concentration. The percent recovery equals the amount of the spiked concentration detected divided by the amount added or spiked. If any of the analyte added or spiked in the QC samples is found in the unspiked sample, that concentration is taken into account. The Relative Percent Difference ((RPD) is used as a measure of precision between duplicate samples

(or LCS/LCSD, MS/MSD pairs of samples). This is usually determined as the difference between the MS and the MSD or possibly as LCS and LCSD. The RPD is the absolute value of the difference between the LCS and the LCSD, divided by the average of the LCS and LCSD, presented as a percentage number.

Quality is assured by the laboratory setting limits for the Accuracy and Precision data generated. Any concerns or data that is not compliant based on the guidelines of the DoD QSM version 4.2 will be narrated in the final Level 4 data package.

4.2 Data Qualifiers

A case narrative is presented as part of the entire laboratory report, and is summarized below. The detailed laboratory Quality Control Results are documented on the QC Summary Report for each of the RTI workorders presented in Appendix D.

- There were no laboratory data qualifiers with the batch quality control analytical results associated with this project.
- There were no laboratory data qualifiers with the sample specific matrix spike or matrix spike duplicate quality control analytical results associated with this project.
- There were no laboratory data qualifiers with the individual sample and calibration verification quality control analytical results associated with this project.
- The laboratory results are accurate as provided within the scope of the method and the DoD QSM version 4.2.

4.4 Quality Assurance/Quality Control Review

RTI performed a QA review regarding the laboratory QC data and the reports. These Case Narratives are documented in **Appendix E**.

In summary:

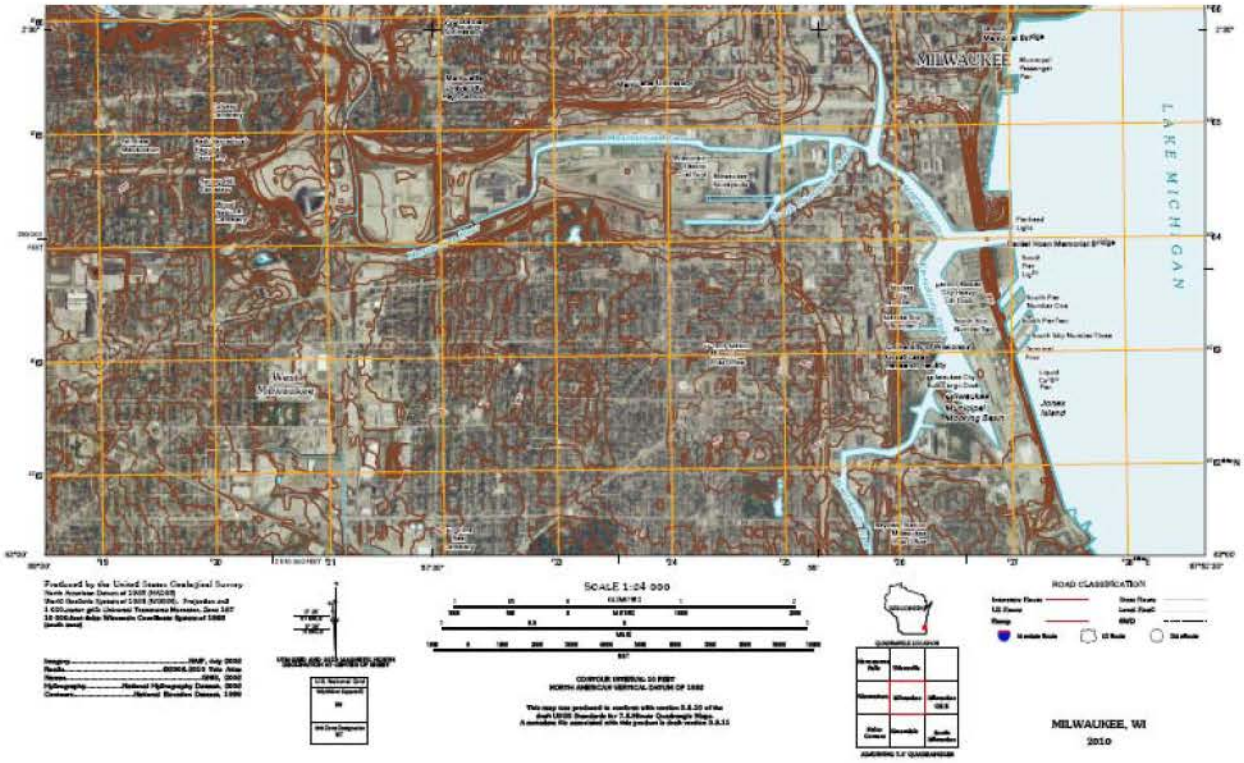
- Some of the analytes for the SVOCs had to be manually integrated. This is sometimes required due to non target compound interference in lake/river bottom sediment samples. Reasons for the manual integration are detailed in the level 4 data package

- Some SVOC compounds had to be re-analyzed after the holding time expired. This was due to findings during a Quality Assurance audit of this laboratory work order. This typically affected one or two compounds on a few of the samples. The "H" qualifiers in the data report (Appendix F) indicate an analyte that is analyzed past the EPA recommended holding time.

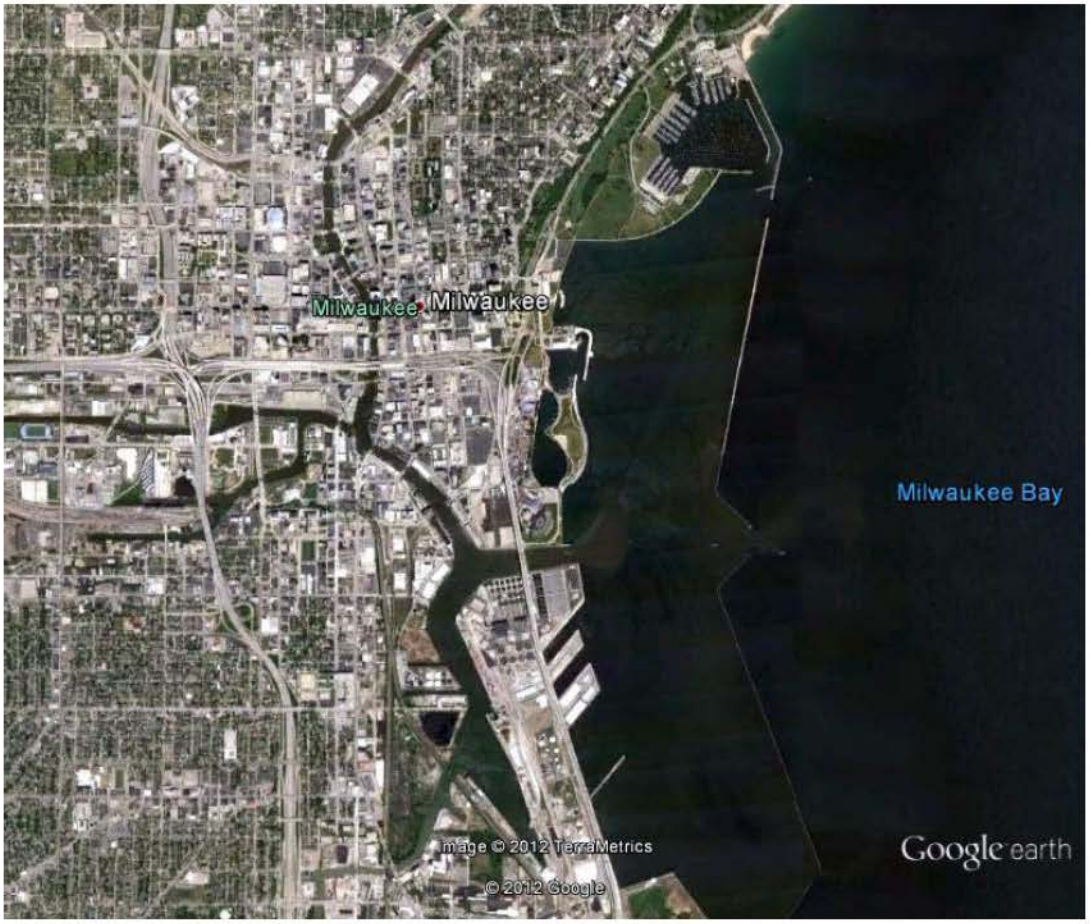
  There were no other exceptions or potential indicators that negatively affected any of the data for this Task Order.

Appendix A

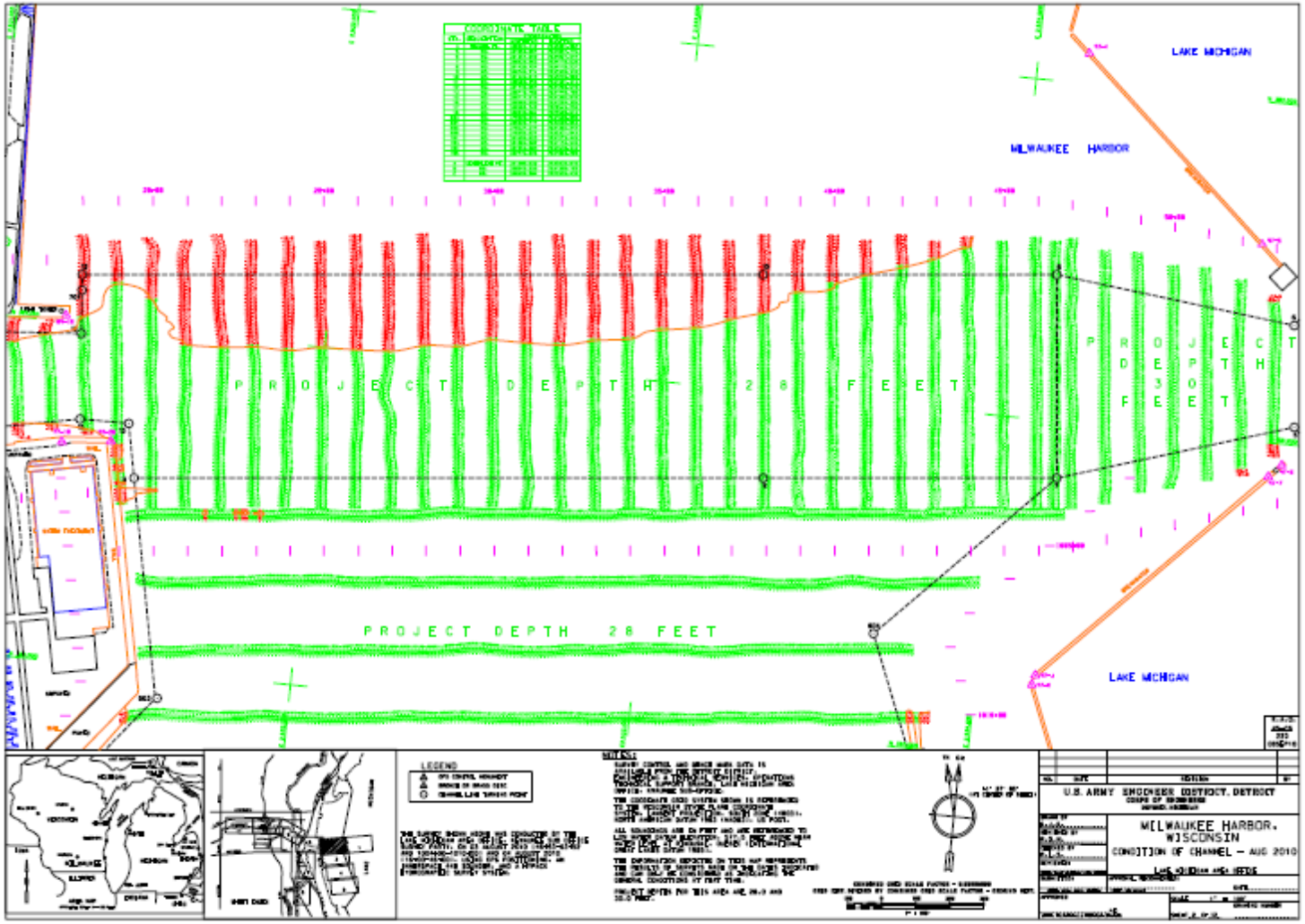
Figure 1, Milwaukee Topographical Map



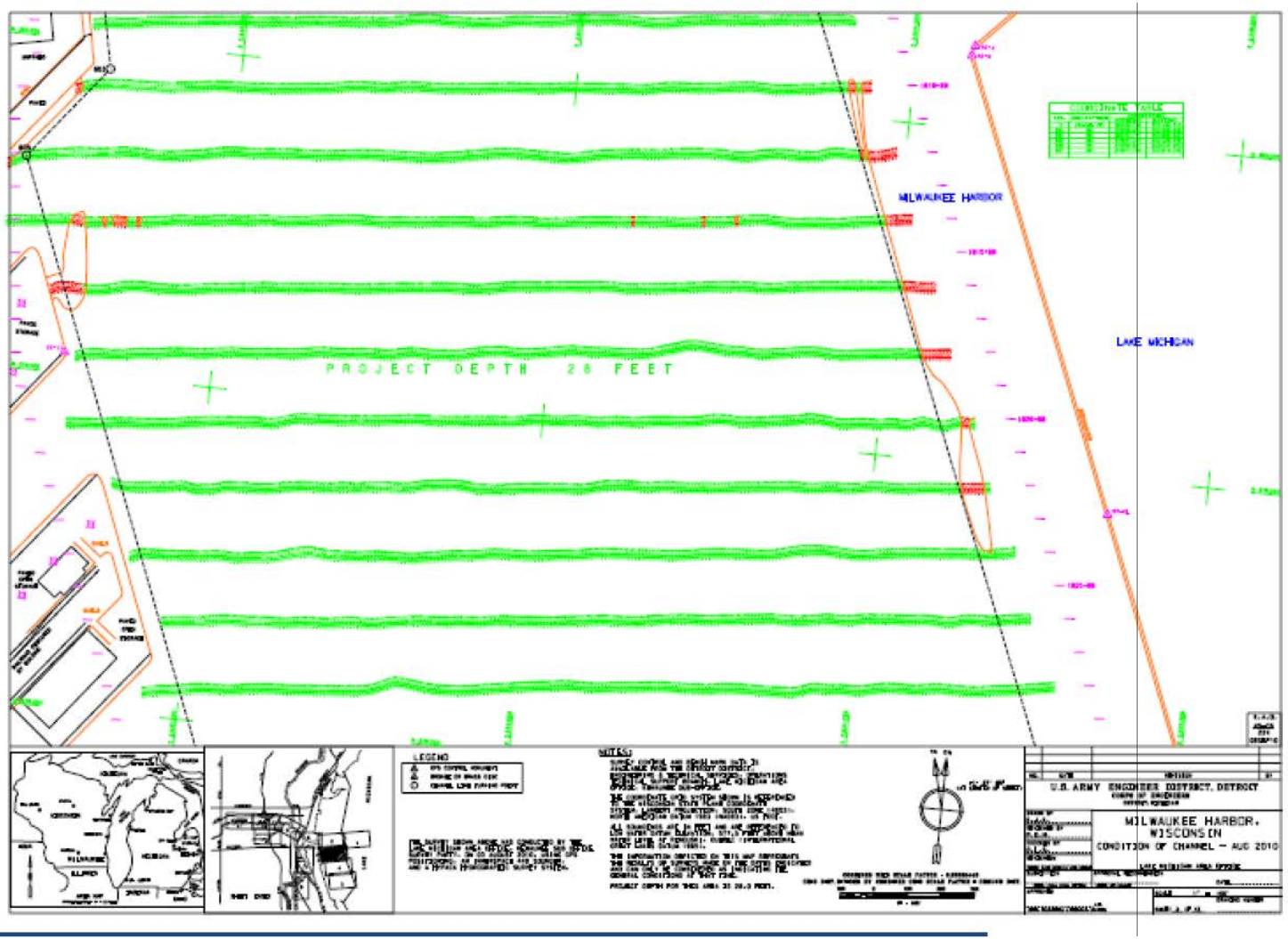
Appendix A
Figure 2



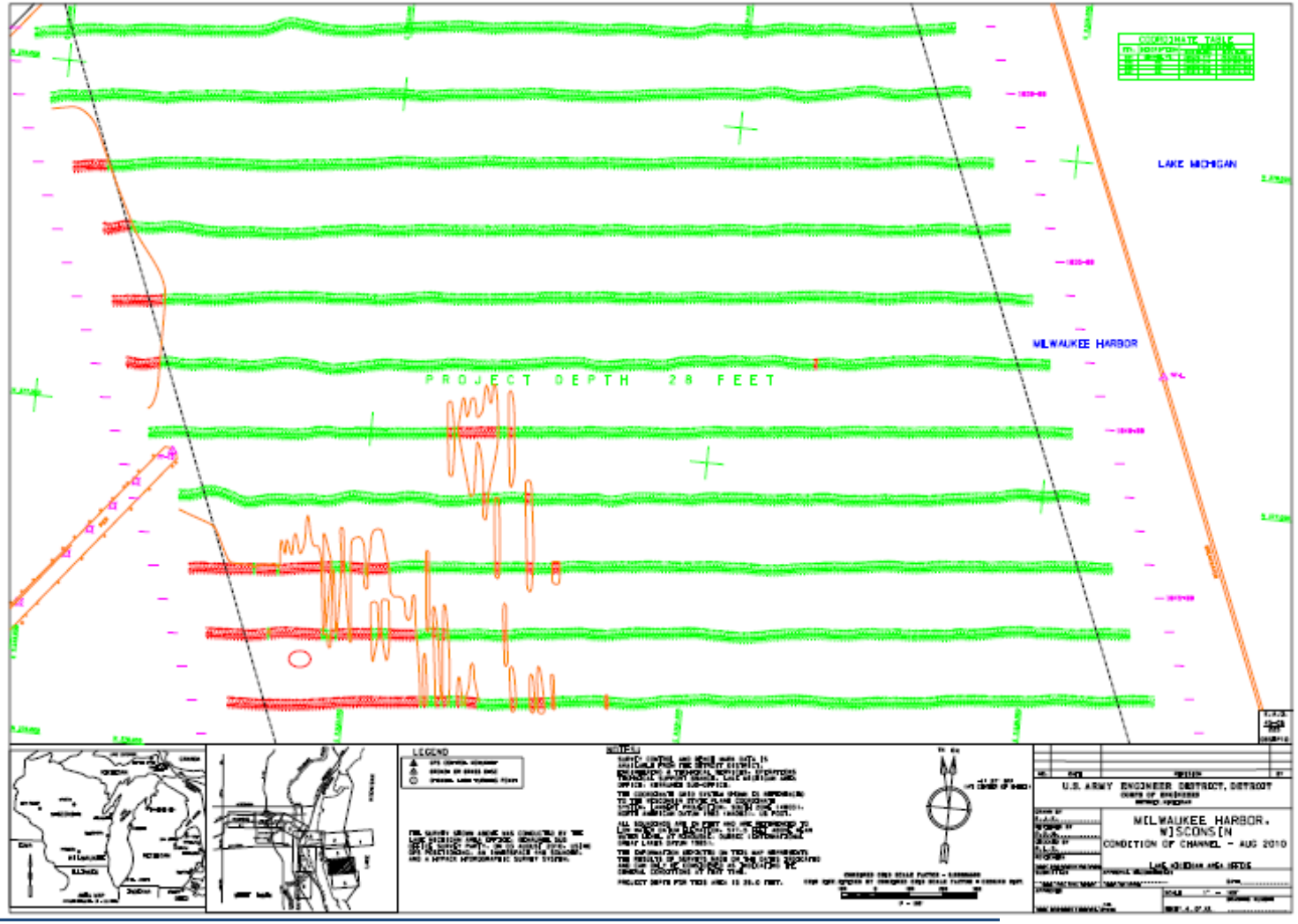
Appendix A
Figure 3a



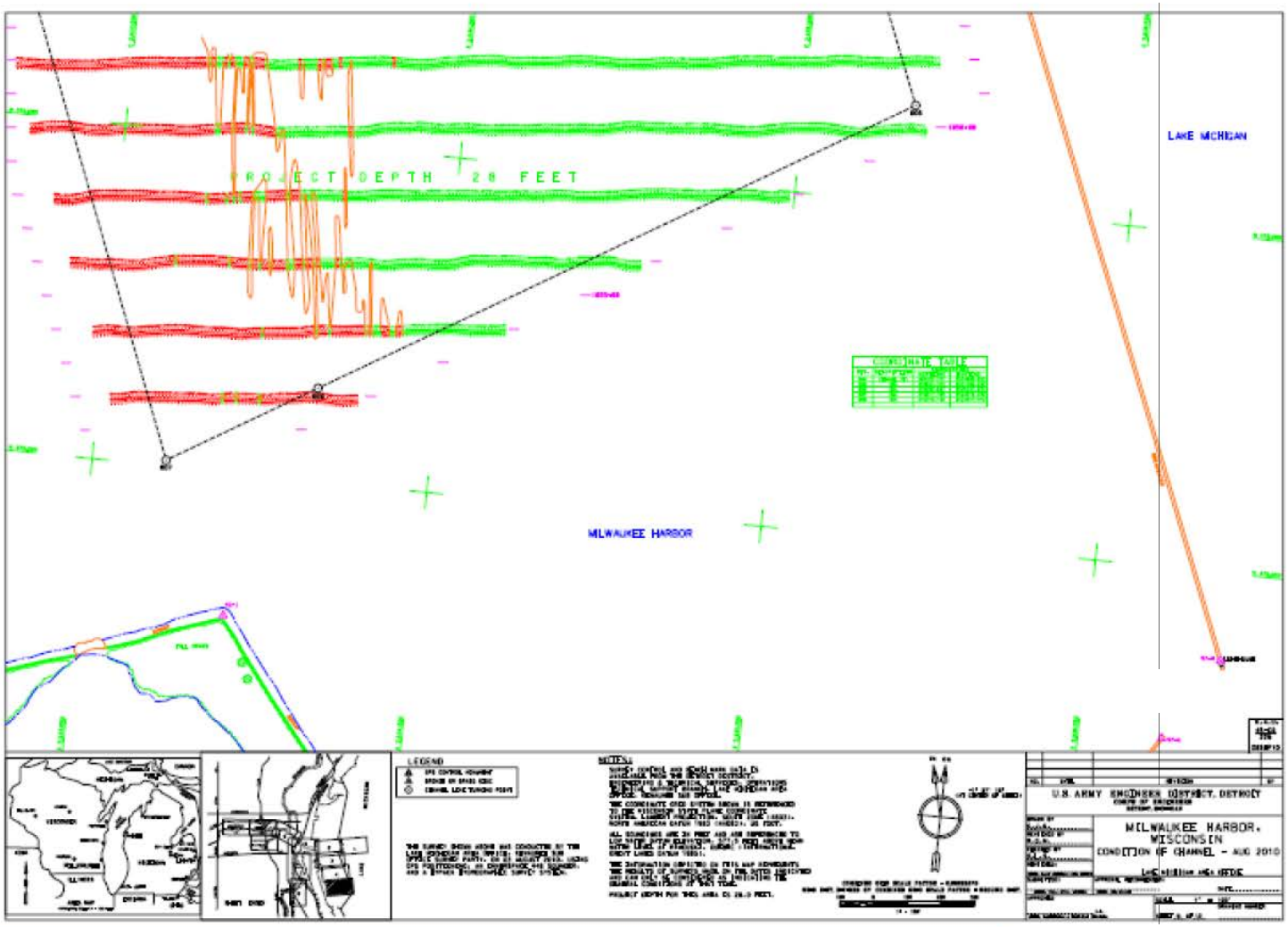
Appendix A
Figure 3b



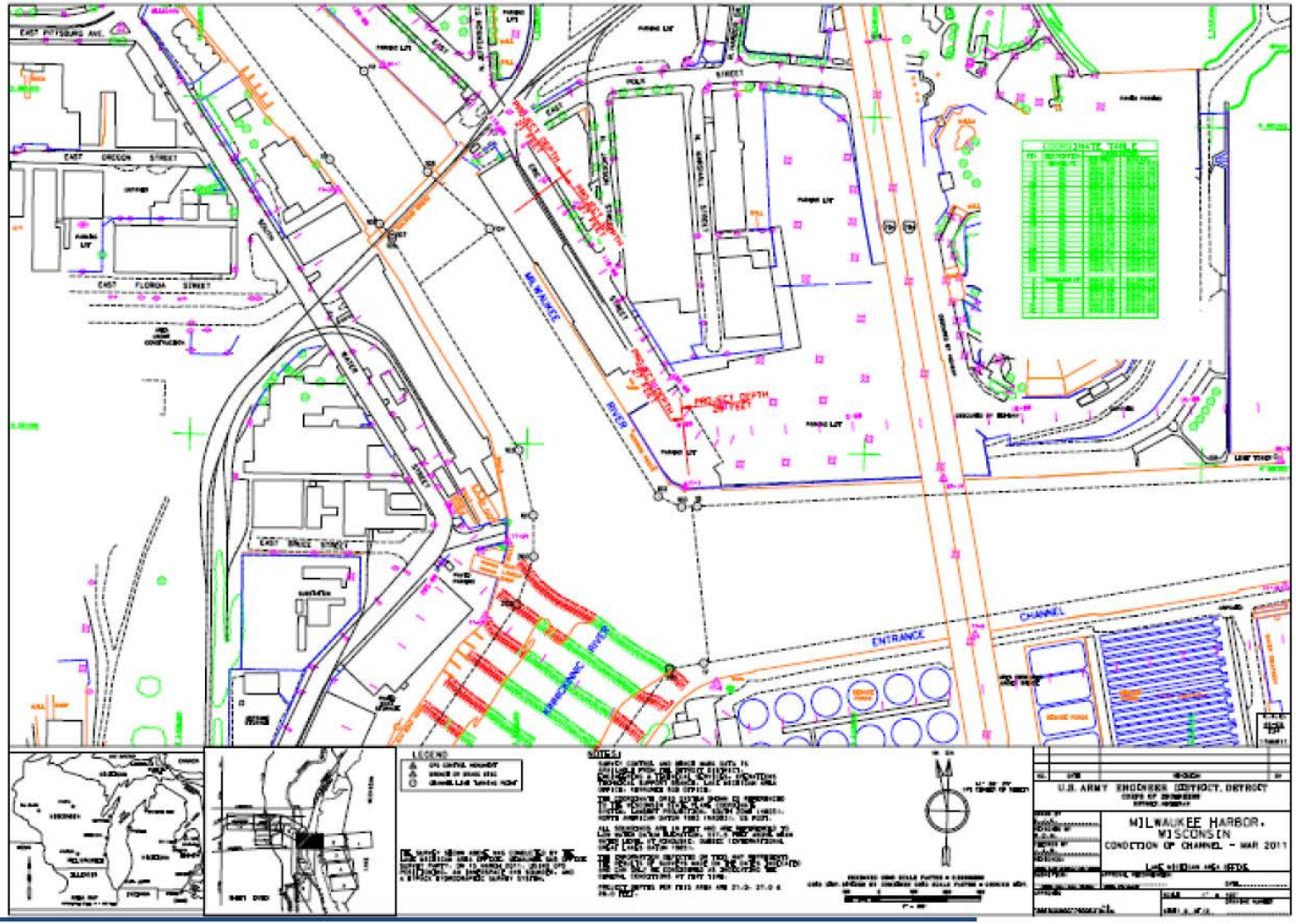
Appendix A
Figure 3c



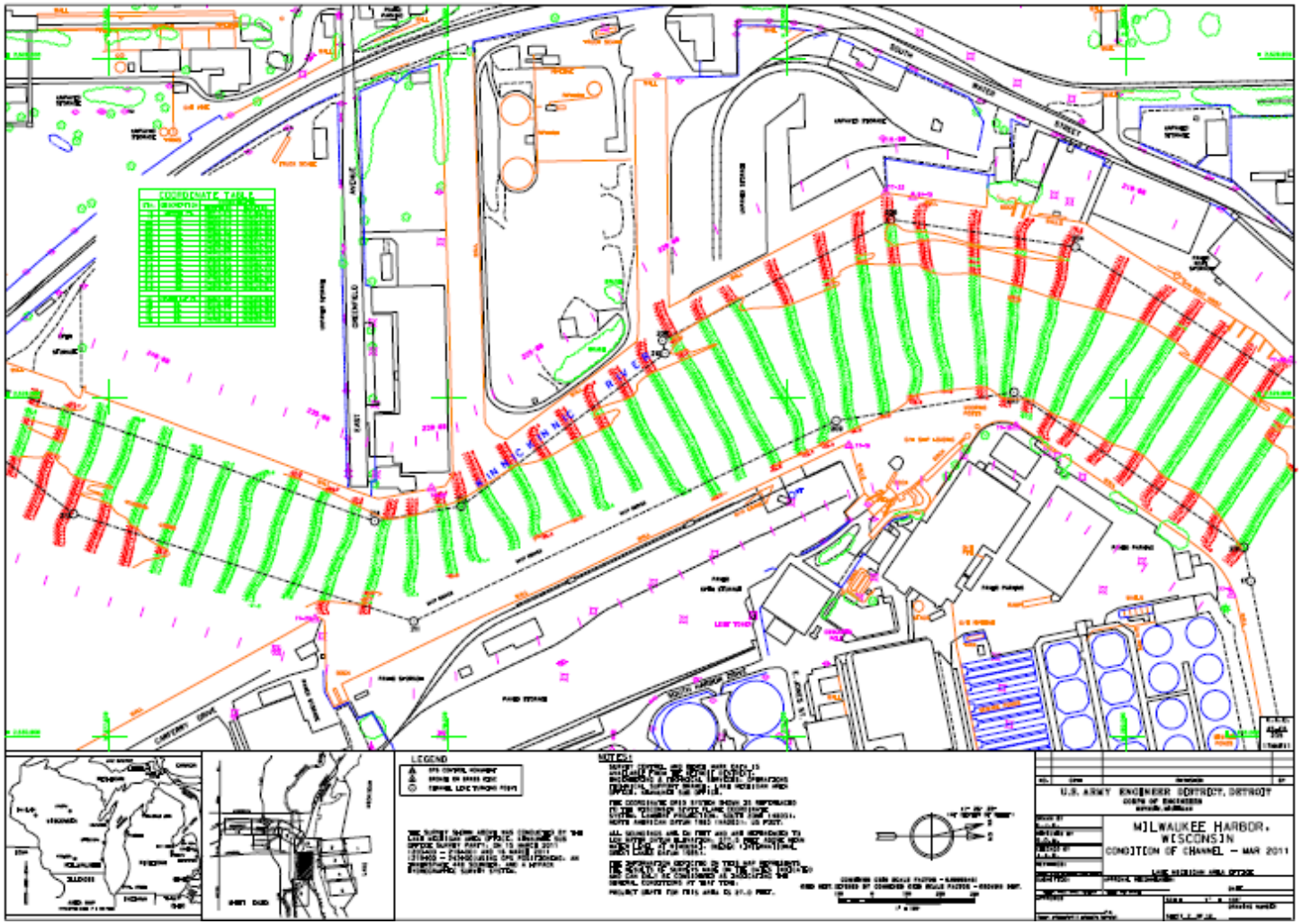
Appendix A
Figure 3d



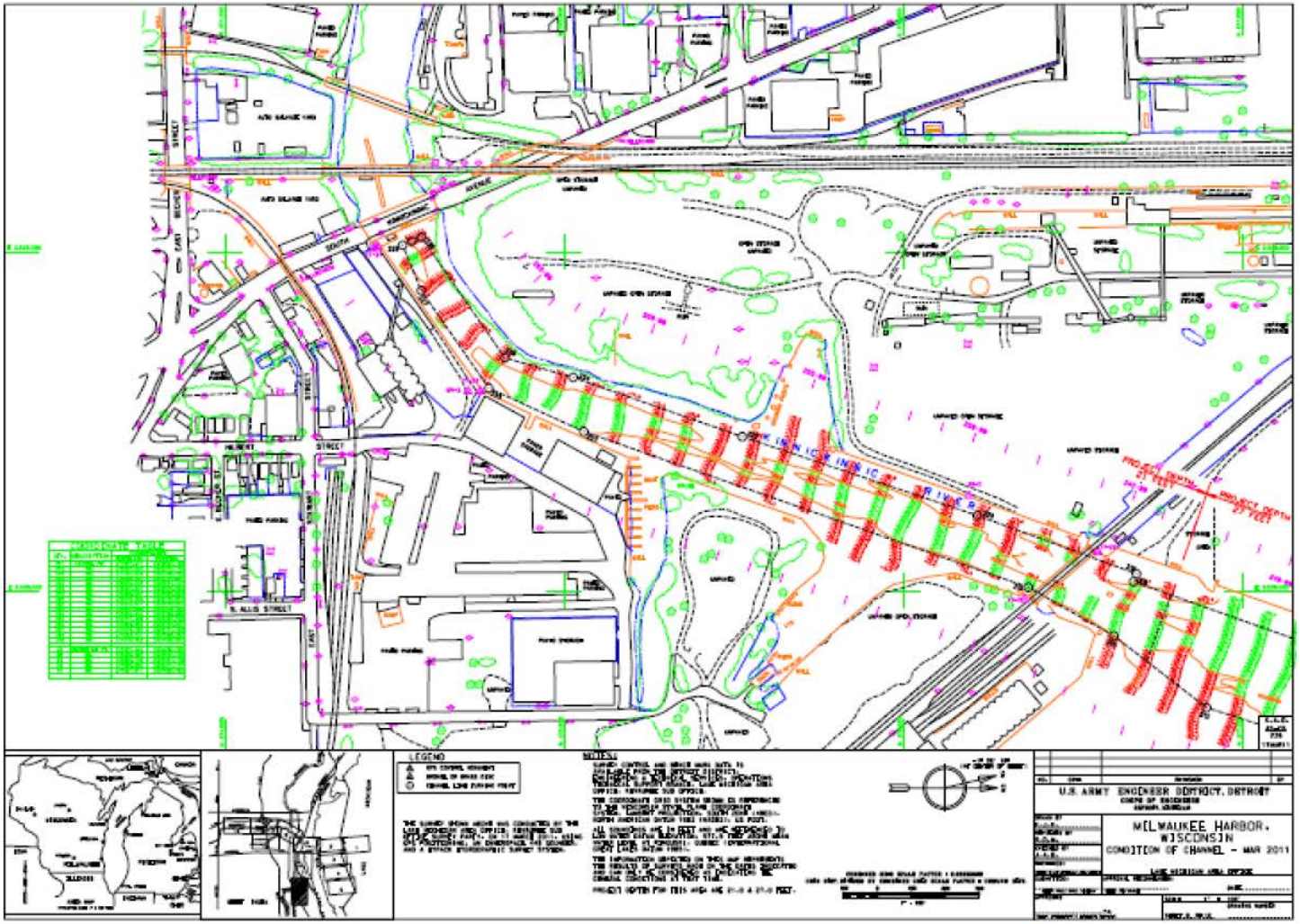
Appendix A
Figure 3e



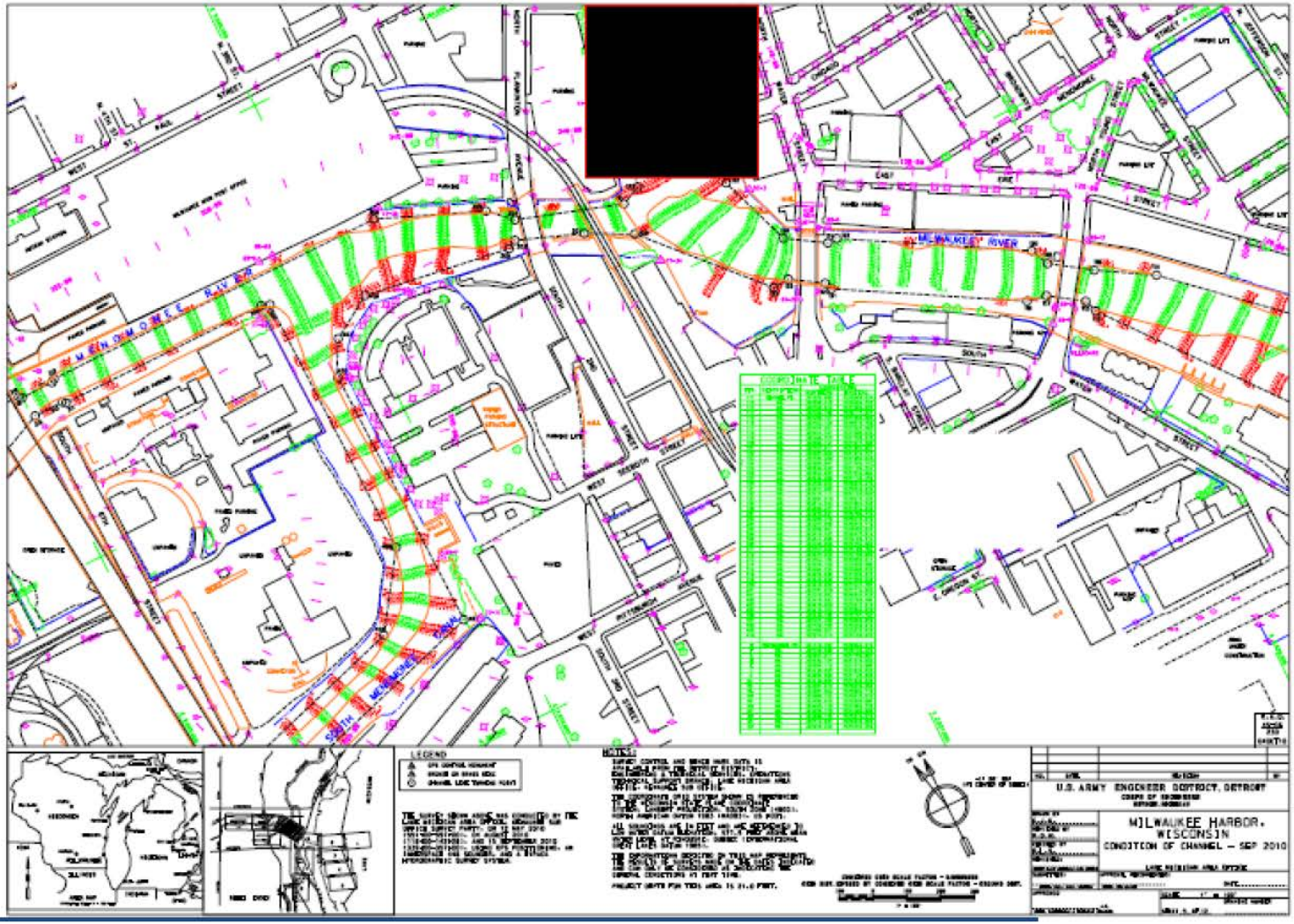
Appendix A
Figure 3f



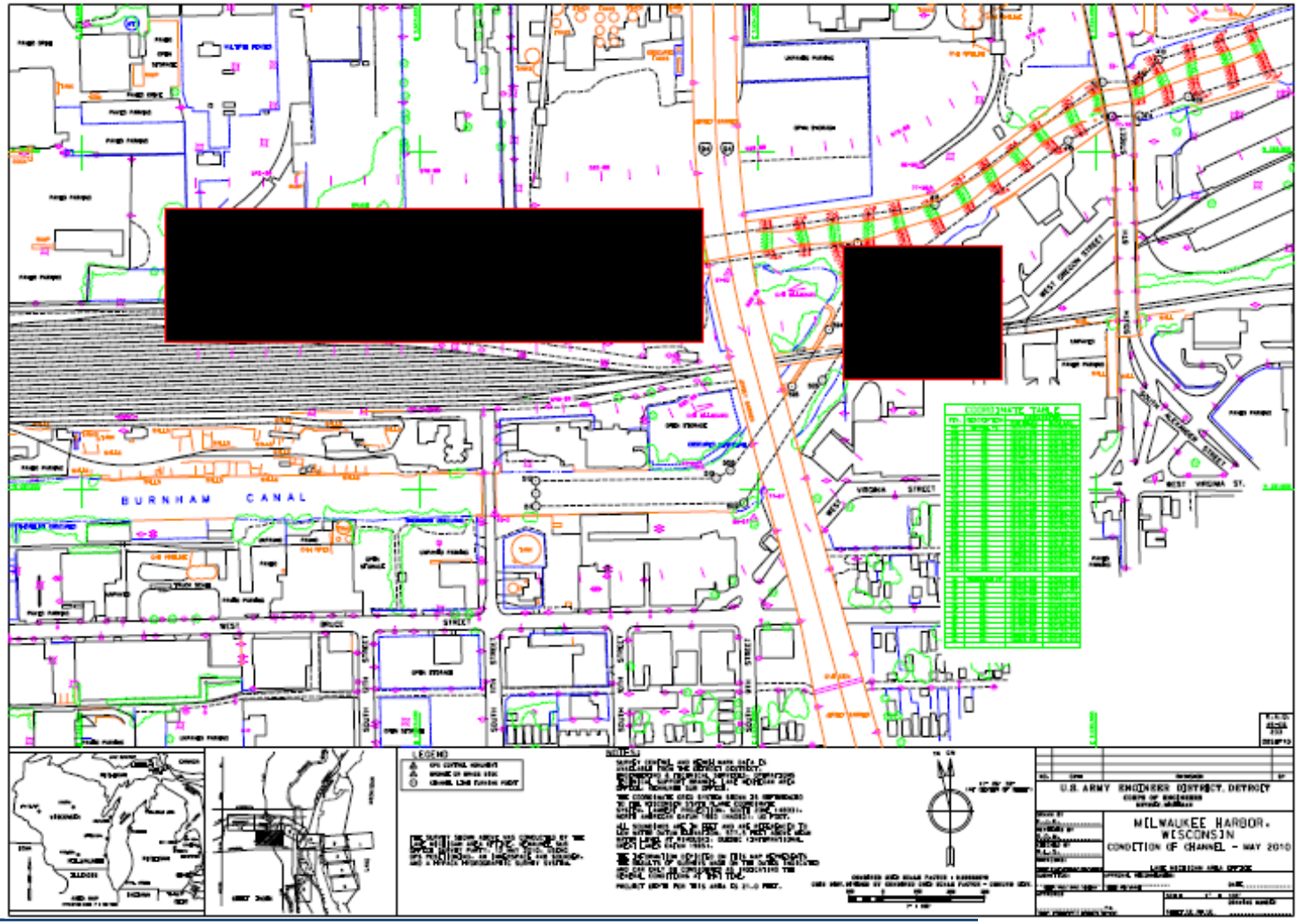
Appendix A
Figure 3g



Appendix A
Figure 3h



Appendix A
Figure 3i



Appendix A

Figure 4

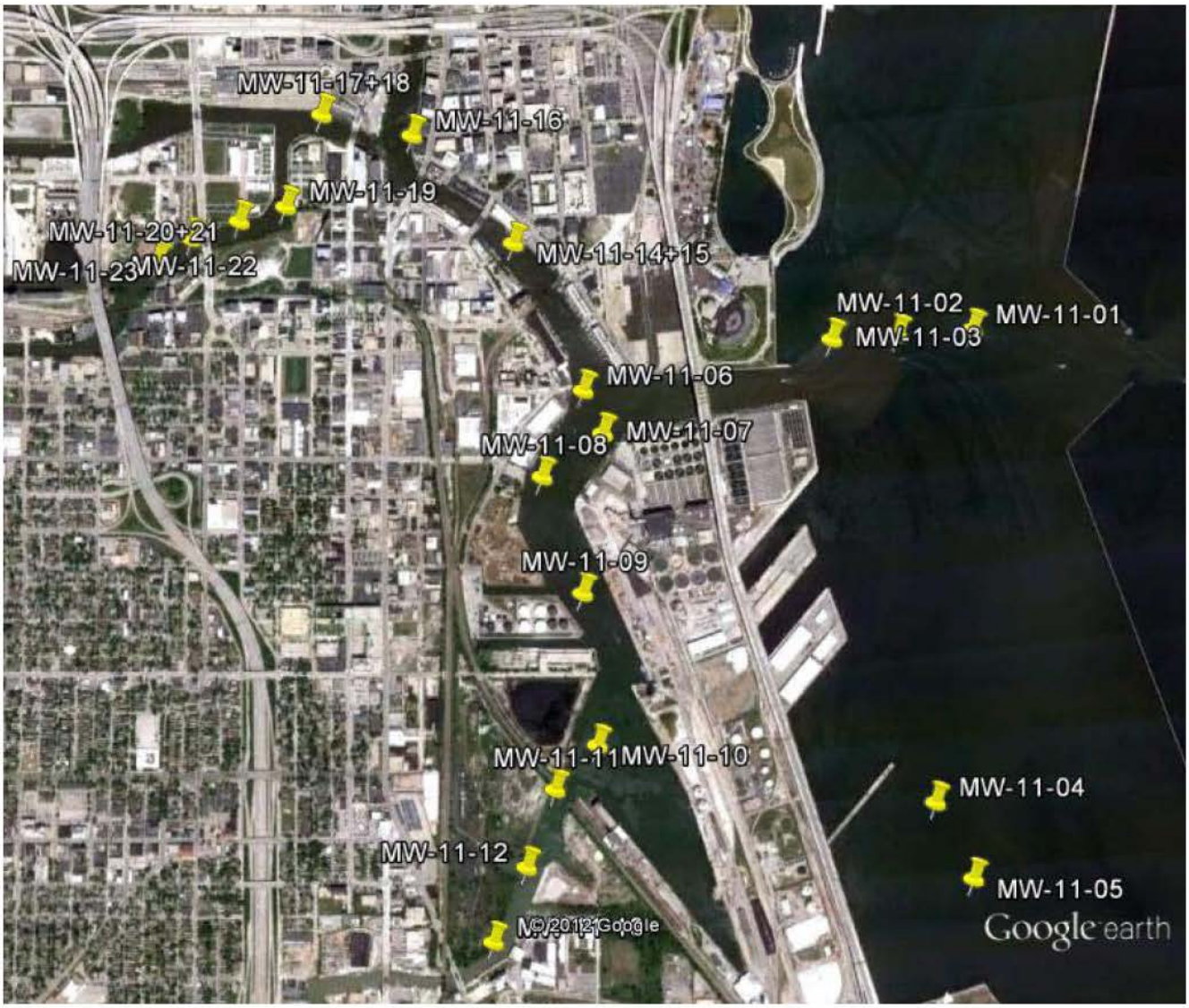


TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05
	Lab ID		1108A20-001	1108A20-002	1108A20-003	1108A20-004	1108A20-005
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
	Core Thickness (ft)		Ponar	3.58	4.25	Ponar	Ponar
	Core Depth (ft)		27.6	26.6	26.6	28.6	28.7
	Latitude, ° ' N		43 01.588	43 01.579	43 05.571	43 00.771	43 00.639
	Longitude, ° ' W		87 53.300	87 53.477	87 53.632	87 53.387	87 53.297
Physical Kit	**Method**	**Units**					
% Solids	ASTM D2216	% by Wt.	**57**	**55**	**51**	**49**	**44**
Specific Gravity	ASTM D6145		1.41	1.43	1.39	1.36	1.31
In-Place Density	ASTM D6145	lbs/gal	11.7	12	11.6	11.3	11
Percent Moisture	ASTM D2216	wt%	**43**	**45**	**49**	**51**	**58**
Organic Kit	**Method**	**Units**					
Cyanide (total)	SW 9012A	mg/kg dry	0.71	0.78	1.2	**15**	**15**
Oil & Grease (HEM)	SW 9070	mg/kg dry	**2,400**	**900**	**1,300**	**940**	**690**
Chemical Oxygen Demand	EPA 410.4	mg/kg dry	70,000	**110,000**	**150,000**	**91,000**	**100,000**
Volatile Solids	SM 2540G	% by Wt.	**9.9**	**6.9**	**8.1**	**6.1**	**6.2**
Total Organic Carbon	SW 9060	mg/kg dry	**62,000**	**77,000**	**39,000**	**120,000**	**67,000**
PCBs	**Method**	**Units**					
Aroclor-1016	SW 8082	ug/kg dry	<58	<60	<64	<68	<75
Aroclor-1221	SW 8082	ug/kg dry	<58	<60	<64	<68	<75
Aroclor-1232	SW 8082	ug/kg dry	<58	<60	<64	<68	<75
Aroclor-1242	SW 8082	ug/kg dry	**280**	**180**	**190**	31	**110**
Aroclor-1248	SW 8082	ug/kg dry	<58	<60	<64	<68	<75
Aroclor-1254	SW 8082	ug/kg dry	**180**	120	**130**	22	**100**
Aroclor-1260	SW 8082	ug/kg dry	**75**	31	38	10	42
Aroclor-1262	SW 8082	ug/kg dry	58	<60	<64	<68	<75
Total PCBs	SW 8082	ug/kg dry	**540**	**330**	**360**	64	**260**
Nutrient Kit	**Method**						
Ammonia as N	SM 4500-NH3-D	mg/kg dry	**150**	**420**	**370**	**190**	**180**
Total Kjeldahl Nitrogen	EPA 351.2	mg/kg dry	2,000	**3,100**	**3,300**	**2,300**	**2,600**
Phosphorus	SM 4500-P-F	mg/kg dry	**9,500**	**15,000**	**820**	**760**	**910**
Metals Kit	**Method**	**Units**					
Arsenic	SW 6020	ug/kg dry	**4,300**	**4,900**	**4,800**	**4,300**	**5,000**
Barium	SW 6020	ug/kg dry	**73,000**	**96,000**	**99,000**	**86,000**	**89,000**
Cadmium	SW 6020	ug/kg dry	**2,100**	**2,800**	**2,300**	**2,200**	**2,400**
Chromium	SW 6020	ug/kg dry	**46,000**	**120,000**	**84,000**	**92,000**	**110**
Copper	SW 6020	ug/kg dry	**39,000**	**58,000**	**55,000**	**41,000**	**43,000**
Iron	SW 6020	ug/kg dry	**12,000,000**	**17,000,000**	**17,000,000**	**17,000,000**	**20,000,000**
Lead	SW 6020	ug/kg dry	**75,000**	**95,000**	**87,000**	**55,000**	**60,000**
Manganese	SW 6020	ug/kg dry	**460,000**	**570,000**	**590,000**	**540,000**	**610,000**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
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TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-06	MW-11-07	MW-11-08	MW-11-09	MW-11-10
	Lab ID		1108A20-006	1108A20-007	1108A20-006	1108A20-009	1108A20-010
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/26/2011
	Core Thickness (ft)		3.42	4.33	Ponar	4.83	Ponar
	Core Depth (ft)		26.2	25	27	25.9	26.1
	Latitude, ° ' N		43 01.482	43 01.408	43 01.333	43 01.132	43 00.870
	Longitude, ° ' W		87 54.219	87 54.173	87 54.316	87 54.220	87 54.185
Physical Kit	**Method**	**Units**					
% Solids	ASTM D2216	% by Wt.	**41**	44	**41**	**56**	**44**
Specific Gravity	ASTM D6145		1.27	1.35	1.29	12.2	1.29
In-Place Density	ASTM D6145	lbs/gal	10.6	11.2	10.8	1.47	10.8
Percent Moisture	ASTM D2216	wt%	**59**	56	**59**	**44**	**56**
Organic Kit	**Method**	**Units**					
Cyanide (total)	SW 9012A	mg/kg dry	**4.8**	**0.75**	1.3	0.89	**2.3**
Oil & Grease (HEM)	SW 9070	mg/kg dry	**2,400**	**2,400**	**1,400**	**1,500**	**2,300**
Chemical Oxygen Demand	EPA 410.4	mg/kg dry	**190,000**	**160,000**	**170,000**	**130,000**	**200,000**
Volatile Solids	SM 2540G	% by Wt.	11	**9.4**	**9.9**	**11**	**11**
Total Organic Carbon	SW 9060	mg/kg dry	**84,000**	**73,000**	**78,000**	**96,000**	**100,000**
PCBs	**Method**	**Units**					
Aroclor-1016	SW 8082	ug/kg dry	<80	<74	<80	<120	<150
Aroclor-1221	SW 8082	ug/kg dry	<80	<74	<80	<120	<150
Aroclor-1232	SW 8082	ug/kg dry	<80	<74	<80	<120	<150
Aroclor-1242	SW 8082	ug/kg dry	**180**	**420**	190	460	**600**
Aroclor-1248	SW 8082	ug/kg dry	<80	74	<80	120	<150
Aroclor-1254	SW 8082	ug/kg dry	**140**	**270**	**140**	380	**410**
Aroclor-1260	SW 8082	ug/kg dry	52	74	39	110	120
Aroclor-1262	SW 8082	ug/kg dry	<80	<74	<80	120	<150
Total PCBs	SW 8082	ug/kg dry	**370**	**760**	**370**	**950**	**1,100**
Nutrient Kit	**Method**						
Ammonia as N	SM 4500-NH3-D	mg/kg dry	**540**	**480**	**330**	**320**	**260**
Total Kjeldahl Nitrogen	EPA 351.2	mg/kg dry	**4,300**	**3,400**	**1,700**	**2,800**	**3,700**
Phosphorus	SM 4500-P-F	mg/kg dry	**940**	**990**	**820**	**1,100**	**710**
Metals Kit	**Method**	**Units**					
Arsenic	SW 6020	ug/kg dry	**5,600**	**4,600**	**5,700**	**11,000**	**8,700**
Barium	SW 6020	ug/kg dry	**130,000**	**100,000**	**120,000**	**130,000**	**120,000**
Cadmium	SW 6020	ug/kg dry	**2,300**	**2,000**	**2,800**	**6,500**	**4,700**
Chromium	SW 6020	ug/kg dry	**74,000**	**70,000**	**100,000**	**280,000**	**150,000**
Copper	SW 6020	ug/kg dry	**67,000**	**53,000**	**66,000**	**84,000**	**88,000**
Iron	SW 6020	ug/kg dry	**19,000,000**	**18,000,000**	**22,000,000**	**19,000,000**	**26,000,000**
Lead	SW 6020	ug/kg dry	**97,000**	**75,000**	**99,000**	**200,000**	**190,000**
Manganese	SW 6020	ug/kg dry	**700,000**	**630,000**	**700,000**	**500,000**	**660,000**

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TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-11	MW-11-12	MW-11-13	MW-11-14	MW-11-15
	Lab ID		1108A20-011	1108A20-012	1108A20-013	1108A20-014	1108A20-015
	Date Collected		8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		Ponar	Ponar	3	5.83	5.83
	Core Depth (ft)		20.3	20.5	19.1	13.6	13.6
	Latitude, ° ' N		43 00.793	43 00.659	43 00.530	43 01.736	43 01.736
	Longitude, ° ' W		87 54.285	87 54.352	87 54.430	87 54.384	87 54.384
Physical Kit	**Method**	**Units**					
% Solids	ASTM D2216	% by Wt.	49	49	56	38	44
Specific Gravity	ASTM D6145		11.6	1.35	1.48	1.24	1.34
In-Place Density	ASTM D6145	lbs/gal	1.39	11.2	12.3	10.3	11.2
Percent Moisture	ASTM D2216	wt%	51	51	44	62	56
Organic Kit	**Method**	**Units**					
Cyanide (total)	SW 9012A	mg/kg dry	<2.1	<2.1	1.2	<2.6	<2.3
Oil & Grease (HEM)	SW 9070	mg/kg dry	440	3,300	9,200	2,000	1,600
Chemical Oxygen Demand	EPA 410.4	mg/kg dry	140,000	160,000	150,000	190,000	190,000
Volatile Solids	SM 2540G	% by Wt.	8.5	9.4	9.8	12	50
Total Organic Carbon	SW 9060	mg/kg dry	76,000	81,000	230,000	98,000	71,000
PCBs	**Method**	**Units**					
Aroclor-1016	SW 8082	ug/kg dry	<140	<340	<590	<86	<74
Aroclor-1221	SW 8082	ug/kg dry	<140	<340	<590	<86	<74
Aroclor-1232	SW 8082	ug/kg dry	<140	<340	<590	<86	<74
Aroclor-1242	SW 8082	ug/kg dry	920	1,100	1,600	210	170
Aroclor-1248	SW 8082	ug/kg dry	<140	<340	<590	<86	<74
Aroclor-1254	SW 8082	ug/kg dry	580	670	810	140	120
Aroclor-1260	SW 8082	ug/kg dry	120	150	150	49	33
Aroclor-1262	SW 8082	ug/kg dry	<140	<340	<590	<86	<74
Total PCBs	SW 8082	ug/kg dry	1,600	1,900	2,600	410	330
Nutrient Kit	**Method**						
Ammonia as N	SM 4500-NH3-D	mg/kg dry	220	240	530	600	710
Total Kjeldahl Nitrogen	EPA 351.2	mg/kg dry	2,400	2,000	3,000	5,400	5,200
Phosphorus	SM 4500-P-F	mg/kg dry	730	590	760	930	850
Metals Kit	**Method**	**Units**					
Arsenic	SW 6020	ug/kg dry	7,500	7,900	5,900	5,900	6,800
Barium	SW 6020	ug/kg dry	120,000	130,000	98,000	140,000	150,000
Cadmium	SW 6020	ug/kg dry	3,800	3,300	3,200	2,500	2,600
Chromium	SW 6020	ug/kg dry	95,000	100,000	86,000	66,000	74,000
Copper	SW 6020	ug/kg dry	92,000	98,000	98,000	71,000	83,000
Iron	SW 6020	ug/kg dry	20,000,000	18,000,000	19,000,000	19,000,000	18,000,000
Lead	SW 6020	ug/kg dry	200,000	200,000	220,000	110,000	120,000
Manganese	SW 6020	ug/kg dry	500,000	410,000	420,000	810,000	670,000

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TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-16	MW-11-17	MW-11-118	MW-11-19	MW-11-20
	Lab ID		1108A20-016	1108A20-017	1108A20-018	1108A20-019	1108A20-020
	Date Collected		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		1.25	4.42	4.42	5.08	5.08
	Core Depth (ft)		15.7	16.1	16.1	17	16.8
	Latitude, ° ' N		43 01.922	43 01.958	43 01.958	43 01.799	43 01.774
	Longitude, ° ' W		87 54.623	87 54.836	87 54.836	87 54.921	87 55.030
Physical Kit	**Method**	**Units**					
% Solids	ASTM D2216	% by Wt.	66	40	48	41	39
Specific Gravity	ASTM D6145		1.6	1.29	1.39	1.36	1.31
In-Place Density	ASTM D6145	lbs/gal	13.3	10.8	11.6	11.3	10.9
Percent Moisture	ASTM D2216	wt%	34	60	52	59	61
Organic Kit	**Method**	**Units**					
Cyanide (total)	SW 9012A	mg/kg dry	<1.5	0.99	<2.1	8.1	1
Oil & Grease (HEM)	SW 9070	mg/kg dry	2,800	3,600	360	550	1,900
Chemical Oxygen Demand	EPA 410.4	mg/kg dry	26,000	210,000	170,000	220,000	210,000
Volatile Solids	SM 2540G	% by Wt.	5.8	12	9.7	10	11
Total Organic Carbon	SW 9060	mg/kg dry	44,000	92,000	77,000	75,000	77,000
PCBs	**Method**	**Units**					
Aroclor-1016	SW 8082	ug/kg dry	<50	<82	<68	<79	<85
Aroclor-1221	SW 8082	ug/kg dry	<50	<82	<68	<79	<85
Aroclor-1232	SW 8082	ug/kg dry	<50	<82	<68	<79	<85
Aroclor-1242	SW 8082	ug/kg dry	360	250	340	220	370
Aroclor-1248	SW 8082	ug/kg dry	<50	<82	<68	<79	<85
Aroclor-1254	SW 8082	ug/kg dry	150	<82	190	160	320
Aroclor-1260	SW 8082	ug/kg dry	23	270	68	64	180
Aroclor-1262	SW 8082	ug/kg dry	<50	<82	<68	<79	<85
Total PCBs	SW 8082	ug/kg dry	530	510	590	450	870
Nutrient Kit	**Method**						
Ammonia as N	SM 4500-NH3-D	mg/kg dry	330	570	450	640	530
Total Kjeldahl Nitrogen	EPA 351.2	mg/kg dry	1,300	4,400	3,000	5,100	3,900
Phosphorus	SM 4500-P-F	mg/kg dry	1,200	1,100	980	3,000	1,300
Metals Kit	**Method**	**Units**					
Arsenic	SW 6020	ug/kg dry	2,300	5,900	6,900	8,400	7,800
Barium	SW 6020	ug/kg dry	86,000	120,000	130,000	160,000	150,000
Cadmium	SW 6020	ug/kg dry	930	2,000	2,600	3,300	2,900
Chromium	SW 6020	ug/kg dry	34,000	60,000	68,000	89,000	87,000
Copper	SW 6020	ug/kg dry	29,000	85,000	92,000	160,000	170,000
Iron	SW 6020	ug/kg dry	6,000,000	19,000,000	26,000,000	26,000,000	25,000,000
Lead	SW 6020	ug/kg dry	140,000	110,000	130,000	140,000	130,000
Manganese	SW 6020	ug/kg dry	250,000	680,000	910,000	810,000	800,000

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TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-21	MW-11-22	MW-11-23
	Lab ID		1108A20-021	1108A20-022	1108A20-023
	Date Collected		8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		5.08	5.66	3.33
	Core Depth (ft)		16.8	18	17.5
	Latitude, ° ' N		43 01.774	43 01.744	43 01.705
	Longitude, ° ' W		87 55.03	87 55.143	87 55.223
Physical Kit	**Method**	**Units**			
% Solids	ASTM D2216	% by Wt.	**46**	**44**	**42**
Specific Gravity	ASTM D6145		1.41	1.35	1.36
In-Place Density	ASTM D6145	lbs/gal	11.8	11.3	11.4
Percent Moisture	ASTM D2216	wt%	**46**	**56**	**58**
Organic Kit	**Method**	**Units**			
Cyanide (total)	SW 9012A	mg/kg dry	<2.2	**9.8**	1.1
Oil & Grease (HEM)	SW 9070	mg/kg dry	**810**	**840**	**2,200**
Chemical Oxygen Demand	EPA 410.4	mg/kg dry	**160,000**	**200,000**	**180,000**
Volatile Solids	SM 2540G	% by Wt.	**11**	**10**	**10**
Total Organic Carbon	SW 9060	mg/kg dry	**75,000**	**75,000**	**70,000**
PCBs	**Method**	**Units**			
Aroclor-1016	SW 8082	ug/kg dry	<72	<76	<78
Aroclor-1221	SW 8082	ug/kg dry	<72	<76	<78
Aroclor-1232	SW 8082	ug/kg dry	<72	<76	<78
Aroclor-1242	SW 8082	ug/kg dry	66	56	56
Aroclor-1248	SW 8082	ug/kg dry	<72	<76	<78
Aroclor-1254	SW 8082	ug/kg dry	<72	<76	<78
Aroclor-1260	SW 8082	ug/kg dry	19	29	31
Aroclor-1262	SW 8082	ug/kg dry	<72	<76	<78
Total PCBs	SW 8082	ug/kg dry	**85**	**85**	**87**
Nutrient Kit	**Method**				
Ammonia as N	SM 4500-NH3-D	mg/kg dry	**780**	**510**	**640**
Total Kjeldahl Nitrogen	EPA 351.2	mg/kg dry	**4,400**	**3,700**	**4,400**
Phosphorus	SM 4500-P-F	mg/kg dry	**2,000**	**1,000**	**1,200**
Metals Kit	**Method**	**Units**			
Arsenic	SW 6020	ug/kg dry	**9,000**	**9,800**	**11,000**
Barium	SW 6020	ug/kg dry	**160,000**	**140,000**	**140,000**
Cadmium	SW 6020	ug/kg dry	**3,900**	**4,500**	**5,100**
Chromium	SW 6020	ug/kg dry	**100,000**	**99,000**	**97,000**
Copper	SW 6020	ug/kg dry	**170,000**	**160,000**	**180,000**
Iron	SW 6020	ug/kg dry	**27,000,000**	**20,000,000**	**25,000,000**
Lead	SW 6020	ug/kg dry	**170,000**	**140,000**	**140,000**
Manganese	SW 6020	ug/kg dry	**770,000**	**600,000**	**770,000**

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TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05
	Lab ID		1108A20-001	1108A20-002	1108A20-003	1108A20-004	1108A20-005
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
	Core Thickness (ft)		Ponar	3.58	4.25	Ponar	Ponar
	Core Depth (ft)		27.6	26.6	26.6	28.6	28.7
	Latitude, ° ' N		43 01.588	43 01.579	43 05.571	43 00.771	43 00.639
	Longitude, ° ' W		87 53.300	87 53.477	87 53.632	87 53.387	87 53.297
Mercury	SW 7471A	ug/kg dry	**180**	**250**	**210**	**140**	**190**
Nickel	SW 6020	ug/kg dry	**14,000**	**19,000**	**18,000**	**18,000**	**20,000**
Selenium	SW 6020	ug/kg dry	740	750	870	790	820
Silver	SW 6020	ug/kg dry	**490**	**1,400**	**1,300**	**960**	**960**
Zinc	SW 6020	ug/kg dry	**160,000**	**230,000**	**220,000**	**180,000**	**200,000**
Organochlorine Pesticides	**Method**	**Units**					
4,4'-DDD	SW 8081	ug/kg dry	3.7	6.2	2.4	<7	<7.7
4,4'-DDE	SW 8081	ug/kg dry	6.6	**4.9**	5.5	1.8	**4.1**
4,4'-DDT	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Aldrin	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
alpha-BHC	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
alpha-Chlordane	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
beta-BHC	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Chlordane (Technical)	SW 8081	ug/kg dry	<2.9	<61	<65	<69	<76
delta-BHC	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Dieldrin	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Endosulfan I	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Endosulfan II	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Endosulfan sulfate	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Endrin	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Endrin aldehyde	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Endrin ketone	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
gamma-BHC	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
gamma-Chlordane	SW 8081	ug/kg dry	**5.3**	**4**	**3.8**	<3.4	<3.8
Heptachlor	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Heptachlor epoxide	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Methoxychlor	SW 8081	ug/kg dry	<2.9	<3	<3.2	<3.4	<3.8
Toxaphene	SW 8081	ug/kg dry	<2.9	<61	<65	<69	<76
Semi-Volatile Organic Compounds/PAH	**Method**	**Units**					
2-Methylnaphthalene	SW 8270	ug/kg dry	<7,000	67	<1,600	<1,600	<1,800
Acenaphthene	SW 8270	ug/kg dry	<7,000	230	91	85	80
Acenaphthylene	SW 8270	ug/kg dry	<7,000	160	84	85	98
Anthracene	SW 8270	ug/kg dry	630	570	310	270	280
Benzo(a)anthracene	SW 8270	ug/kg dry	2,300	**2,200**	1,200	990	1,000

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Parameter	Sample ID		MW-11-06	MW-11-07	MW-11-08	MW-11-09	MW-11-10
	Lab ID		1108A20-006	1108A20-007	1108A20-006	1108A20-009	1108A20-010
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/26/2011
	Core Thickness (ft)		3.42	4.33	Ponar	4.83	Ponar
	Core Depth (ft)		26.2	25	27	25.9	26.1
	Latitude, ° ' N		43 01.482	43 01.408	43 01.333	43 01.132	43 00.870
	Longitude, ° ' W		87 54.219	87 54.173	87 54.316	87 54.220	87 54.185
Mercury	SW 7471A	ug/kg dry	**260**	**220**	**210**	**510**	**370**
Nickel	SW 6020	ug/kg dry	**22,000**	**18,000**	**22,000**	**28,000**	**28,000**
Selenium	SW 6020	ug/kg dry	1,300	1,000	1,100	1,300	1,200
Silver	SW 6020	ug/kg dry	**680**	**920**	**900**	**1,900**	**1,100**
Zinc	SW 6020	ug/kg dry	**290,000**	**230,000**	**290,000**	**460,000**	**460,000**
Organochlorine Pesticides	**Method**	**Units**					
4,4'-DDD	SW 8081	ug/kg dry	3	6.3	3.5	8.2	18
4,4'-DDE	SW 8081	ug/kg dry	**6.8**	**16**	6.7	**23**	**33**
4,4'-DDT	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Aldrin	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
alpha-BHC	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
alpha-Chlordane	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
beta-BHC	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Chlordane (Technical)	SW 8081	ug/kg dry	<81	<190	<81	<150	<380
delta-BHC	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Dieldrin	SW 8081	ug/kg dry	5.6	<9.3	<4	<7.4	<19
Endosulfan I	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Endosulfan II	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Endosulfan sulfate	SW 8081	ug/kg dry	<4	<9.3	<4	**8.7**	<19
Endrin	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	**20**
Endrin aldehyde	SW 8081	ug/kg dry	<4	<9.3	<4	**12**	<19
Endrin ketone	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
gamma-BHC	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
gamma-Chlordane	SW 8081	ug/kg dry	**4.7**	**10**	4.5	**17**	<19
Heptachlor	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Heptachlor epoxide	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Methoxychlor	SW 8081	ug/kg dry	<4	<9.3	<4	<7.4	<19
Toxaphene	SW 8081	ug/kg dry	<81	<190	<81	<150	<380
Semi-Volatile Organic Compounds/PAH	**Method**	**Units**					
2-Methylnaphthalene	SW 8270	ug/kg dry	<3,900	<1,800	<1,900	150	160
Acenaphthene	SW 8270	ug/kg dry	<3,900	<1,800	140	280	250
Acenaphthylene	SW 8270	ug/kg dry	<3,900	<1,800	190	620	490
Anthracene	SW 8270	ug/kg dry	410	150	430	860	940
Benzo(a)anthracene	SW 8270	ug/kg dry	2,100	680	1,700	**2,700**	**3,500**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-11	MW-11-12	MW-11-13	MW-11-14	MW-11-15
	Lab ID		1108A20-011	1108A20-012	1108A20-013	1108A20-014	1108A20-015
	Date Collected		8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		Ponar	Ponar	3	5.83	5.83
	Core Depth (ft)		20.3	20.5	19.1	13.6	13.6
	Latitude, ° ' N		43 00.793	43 00.659	43 00.530	43 01.736	43 01.736
	Longitude, ° ' W		87 54.285	87 54.352	87 54.430	87 54.384	87 54.384
Mercury	SW 7471A	ug/kg dry	270	210	210	210	200
Nickel	SW 6020	ug/kg dry	29,000	28,000	26,000	24,000	26,000
Selenium	SW 6020	ug/kg dry	1,300	980	990	1,300	1,400
Silver	SW 6020	ug/kg dry	690	320	790	690	840
Zinc	SW 6020	ug/kg dry	460,000	490,000	490,000	370,000	340,000
Organochlorine Pesticides	Method	Units					
4,4'-DDD	SW 8081	ug/kg dry	20	30	32	<8.8	<7.7
4,4'-DDE	SW 8081	ug/kg dry	30	40	35	6.2	5.5
4,4'-DDT	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Aldrin	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
alpha-BHC	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
alpha-Chlordane	SW 8081	ug/kg dry	<8.5	5.1	4.9	<4.3	<3.7
beta-BHC	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Chlordane (Technical)	SW 8081	ug/kg dry	<170	<170	<150	<87	<75
delta-BHC	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Dieldrin	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Endosulfan I	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Endosulfan II	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Endosulfan sulfate	SW 8081	ug/kg dry	12	<8.5	<7.4	<4.3	<3.7
Endrin	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Endrin aldehyde	SW 8081	ug/kg dry	<8.5	19	<7.4	<4.3	<3.7
Endrin ketone	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
gamma-BHC	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
gamma-Chlordane	SW 8081	ug/kg dry	23	27	26	4.2	3.3
Heptachlor	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Heptachlor epoxide	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Methoxychlor	SW 8081	ug/kg dry	<8.5	<8.5	<7.4	<4.3	<3.7
Toxaphene	SW 8081	ug/kg dry	<170	<170	<150	<87	<75
Semi-Volatile Organic Compounds/PAH	Method	Units					
2-Methylnaphthalene	SW 8270	ug/kg dry	1,700	68	<7,100	<2,100	<1,800
Acenaphthene	SW 8270	ug/kg dry	150	270	670	120	150
Acenaphthylene	SW 8270	ug/kg dry	120	140	<7,100	<2,100	94
Anthracene	SW 8270	ug/kg dry	390	620	1,600	400	340
Benzo(a)anthracene	SW 8270	ug/kg dry	1,800	2,500	6,800	1,800	1,600

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-16	MW-11-17	MW-11-118	MW-11-19	MW-11-20
	Lab ID		1108A20-016	1108A20-017	1108A20-018	1108A20-019	1108A20-020
	Date Collected		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		1.25	4.42	4.42	5.08	5.08
	Core Depth (ft)		15.7	16.1	16.1	17	16.8
	Latitude, ° ' N		43 01.922	43 01.958	43 01.958	43 01.799	43 01.774
	Longitude, ° ' W		87 54.623	87 54.836	87 54.836	87 54.921	87 55.030
Mercury	SW 7471A	ug/kg dry	**110**	**200**	**190**	**280**	**280**
Nickel	SW 6020	ug/kg dry	**11,000**	**23,000**	**25,000**	**29,000**	**28,000**
Selenium	SW 6020	ug/kg dry	460	1,100	1,000	1,300	1,400
Silver	SW 6020	ug/kg dry	**1,000**	**620**	**810**	**990**	**890**
Zinc	SW 6020	ug/kg dry	**180,000**	**360,000**	**360,000**	**510,000**	**510,000**
Organochlorine Pesticides	**Method**	**Units**					
4,4'-DDD	SW 8081	ug/kg dry	4	3.5	8.9	6.9	8.4
4,4'-DDE	SW 8081	ug/kg dry	**5.5**	**7.7**	**18**	**19**	**26**
4,4'-DDT	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Aldrin	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	7.1
alpha-BHC	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
alpha-Chlordane	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
beta-BHC	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Chlordane (Technical)	SW 8081	ug/kg dry	<51	<83	<170	<200	<220
delta-BHC	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Dieldrin	SW 8081	ug/kg dry	<2.5	<4.1	**7.8**	<10	**12**
Endosulfan I	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Endosulfan II	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Endosulfan sulfate	SW 8081	ug/kg dry	<2.5	**10**	<8.5	<10	<11
Endrin	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Endrin aldehyde	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Endrin ketone	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
gamma-BHC	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
gamma-Chlordane	SW 8081	ug/kg dry	**4.4**	**8.6**	**8.7**	**14**	**16**
Heptachlor	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Heptachlor epoxide	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Methoxychlor	SW 8081	ug/kg dry	<2.5	<4.1	<8.5	<10	<11
Toxaphene	SW 8081	ug/kg dry	<51	<83	<170	<200	<220
Semi-Volatile Organic Compounds/PAH	**Method**	**Units**					
2-Methylnaphthalene	SW 8270	ug/kg dry	110	<2,000	<1,600	<380	<2,100
Acenaphthene	SW 8270	ug/kg dry	900	190	140	<380	98
Acenaphthylene	SW 8270	ug/kg dry	63	95	72	<380	77
Anthracene	SW 8270	ug/kg dry	870	540	330	<380	290
Benzo(a)anthracene	SW 8270	ug/kg dry	**3,200**	**2,800**	1,500	51	1,700

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-21	MW-11-22	MW-11-23
	Lab ID		1108A20-021	1108A20-022	1108A20-023
	Date Collected		8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		5.08	5.66	3.33
	Core Depth (ft)		16.8	18	17.5
	Latitude, ° ' N		43 01.774	43 01.744	43 01.705
	Longitude, ° ' W		87 55.03	87 55.143	87 55.223
Mercury	SW 7471A	ug/kg dry	**310**	**410**	**330**
Nickel	SW 6020	ug/kg dry	**31,00**	**28,000**	**29,000**
Selenium	SW 6020	ug/kg dry	1,200	**2,500**	**3,200**
Silver	SW 6020	ug/kg dry	**1,100**	**820**	**650**
Zinc	SW 6020	ug/kg dry	**540,000**	**470,000**	**530,000**
Organochlorine Pesticides	**Method**	**Units**			
4,4'-DDD	SW 8081	ug/kg dry	<7.4	3.3	4.2
4,4'-DDE	SW 8081	ug/kg dry	**15**	**10**	**9.9**
4,4'-DDT	SW 8081	ug/kg dry	**14**	**16**	**12**
Aldrin	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
alpha-BHC	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
alpha-Chlordane	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
beta-BHC	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Chlordane (Technical)	SW 8081	ug/kg dry	<73	<76	<79
delta-BHC	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Dieldrin	SW 8081	ug/kg dry	**7.2**	**4.9**	**4.5**
Endosulfan I	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Endosulfan II	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Endosulfan sulfate	SW 8081	ug/kg dry	2.9	<3.8	<3.9
Endrin	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Endrin aldehyde	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Endrin ketone	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
gamma-BHC	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
gamma-Chlordane	SW 8081	ug/kg dry	**5.8**	**4.6**	3.8
Heptachlor	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Heptachlor epoxide	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Methoxychlor	SW 8081	ug/kg dry	<3.6	<3.8	<3.9
Toxaphene	SW 8081	ug/kg dry	<73	<76	<79
Semi-Volatile Organic Compounds/PAH	**Method**	**Units**			
2-Methylnaphthalene	SW 8270	ug/kg dry	19	<1,800	<380
Acenaphthene	SW 8270	ug/kg dry	56	140	24
Acenaphthylene	SW 8270	ug/kg dry	44	80	<380
Anthracene	SW 8270	ug/kg dry	140	350	61
Benzo(a)anthracene	SW 8270	ug/kg dry	**970**	1,700	**400**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05
	Lab ID		1108A20-001	1108A20-002	1108A20-003	1108A20-004	1108A20-005
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
	Core Thickness (ft)		Ponar	3.58	4.25	Ponar	Ponar
	Core Depth (ft)		27.6	26.6	26.6	28.6	28.7
	Latitude, ° ' N		43 01.588	43 01.579	43 05.571	43 00.771	43 00.639
	Longitude, ° ' W		87 53.300	87 53.477	87 53.632	87 53.387	87 53.297
Benzo(a)pyrene	SW 8270	ug/kg dry	2,100	**2,100**	1,300	1,100	1,100
Benzo(b)fluoranthene	SW 8270	ug/kg dry	3,200	**3,100**	**1,800**	1,700	1,700
Benzo(g,h,i)perylene	SW 8270	ug/kg dry	1,500	1,000	630	650	620
Benzo(k)fluoranthene	SW 8270	ug/kg dry	920	1,200	810	800	660
Chrysene	SW 8270	ug/kg dry	2,400	**2,300**	1,500	1,300	1,200
Dibenzo (a,h) anthracene	SW 8270	ug/kg dry	<7,000	270	<1,600	<1,600	<1,800
Fluoranthene	SW 8270	ug/kg dry	5,000	**4,700**	**2,700**	**2,300**	**2,300**
Fluorene	SW 8270	ug/kg dry	<7,000	240	110	99	100
Indeno(1,2,3-cd)pyrene	SW 8270	ug/kg dry	1,300	920	560	560	570
Naphthalene	SW 8270	ug/kg dry	<7,000	82	<1,600	<1,600	<1,800
Phenanthrene	SW 8270	ug/kg dry	2,200	**2,200**	1,300	840	890
Pyrene	SW 8270	ug/kg dry	4,000	**4,100**	<1,600	**1,900**	**2,000**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-06	MW-11-07	MW-11-08	MW-11-09	MW-11-10
	Lab ID		1108A20-006	1108A20-007	1108A20-006	1108A20-009	1108A20-010
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/26/2011
	Core Thickness (ft)		3.42	4.33	Ponar	4.83	Ponar
	Core Depth (ft)		26.2	25	27	25.9	26.1
	Latitude, ° ' N		43 01.482	43 01.408	43 01.333	43 01.132	43 00.870
	Longitude, ° ' W		87 54.219	87 54.173	87 54.316	87 54.220	87 54.185
Benzo(a)pyrene	SW 8270	ug/kg dry	2,300	820	**2,100**	**2,700**	**4,300**
Benzo(b)fluoranthene	SW 8270	ug/kg dry	3,700	1,100	**3,400**	3,800	**6,900**
Benzo(g,h,i)perylene	SW 8270	ug/kg dry	1,500	460	1,500	1,400	**2,300**
Benzo(k)fluoranthene	SW 8270	ug/kg dry	1,500	570	1,200	1,100	**2,100**
Chrysene	SW 8270	ug/kg dry	2,800	960	**2,600**	3,200	**4,300**
Dibenzo (a,h) anthracene	SW 8270	ug/kg dry	<3,900	<1,800	350	470	650
Fluoranthene	SW 8270	ug/kg dry	**5,200**	1,600	**4,500**	**5,000**	**7,500**
Fluorene	SW 8270	ug/kg dry	160	<1,800	170	460	400
Indeno(1,2,3-cd)pyrene	SW 8270	ug/kg dry	1,300	410	1,300	1,300	**2,100**
Naphthalene	SW 8270	ug/kg dry	<3,900	<1,800	120	350	660
Phenanthrene	SW 8270	ug/kg dry	1,900	640	1,700	**2,400**	**3,200**
Pyrene	SW 8270	ug/kg dry	**4,300**	1,400	3,600	4,800	**6,600**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-11	MW-11-12	MW-11-13	MW-11-14	MW-11-15
	Lab ID		1108A20-011	1108A20-012	1108A20-013	1108A20-014	1108A20-015
	Date Collected		8/26/2011	8/26/2011	8/26/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		Ponar	Ponar	3	5.83	5.83
	Core Depth (ft)		20.3	20.5	19.1	13.6	13.6
	Latitude, ° ' N		43 00.793	43 00.659	43 00.530	43 01.736	43 01.736
	Longitude, ° ' W		87 54.285	87 54.352	87 54.430	87 54.384	87 54.384
Benzo(a)pyrene	SW 8270	ug/kg dry	**2,300**	**3,000**	**7,300**	2,000	**1,900**
Benzo(b)fluoranthene	SW 8270	ug/kg dry	**3,800**	**5,200**	**12,000**	**3,200**	**3,400**
Benzo(g,h,i)perylene	SW 8270	ug/kg dry	1,200	1,500	3,600	960	**1,000**
Benzo(k)fluoranthene	SW 8270	ug/kg dry	1,300	**1,700**	3,900	1,200	**1,200**
Chrysene	SW 8270	ug/kg dry	**2,800**	**3,800**	**9,200**	**2,500**	**2,300**
Dibenzo (a,h) anthracene	SW 8270	ug/kg dry	280	340	<7,100	<2,100	<1,800
Fluoranthene	SW 8270	ug/kg dry	**4,600**	**6,600**	**18,000**	**4,300**	**3,900**
Fluorene	SW 8270	ug/kg dry	220	330	860	150	210
Indeno(1,2,3-cd)pyrene	SW 8270	ug/kg dry	1,100	1,300	3,600	810	**920**
Naphthalene	SW 8270	ug/kg dry	160	330	<7,100	<2,100	<1,800
Phenanthrene	SW 8270	ug/kg dry	**2,000**	3,100	**9,600**	2,100	**1,900**
Pyrene	SW 8270	ug/kg dry	**4,400**	**6,500**	**17,000**	**4,200**	**4,000**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-16	MW-11-17	MW-11-118	MW-11-19	MW-11-20
	Lab ID		1108A20-016	1108A20-017	1108A20-018	1108A20-019	1108A20-020
	Date Collected		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		1.25	4.42	4.42	5.08	5.08
	Core Depth (ft)		15.7	16.1	16.1	17	16.8
	Latitude, ° ' N		43 01.922	43 01.958	43 01.958	43 01.799	43 01.774
	Longitude, ° ' W		87 54.623	87 54.836	87 54.836	87 54.921	87 55.030
Benzo(a)pyrene	SW 8270	ug/kg dry	**3,400**	**3,600**	**2,000**	59	2,100
Benzo(b)fluoranthene	SW 8270	ug/kg dry	**5,400**	**6,200**	**3,300**	87	**3,600**
Benzo(g,h,i)perylene	SW 8270	ug/kg dry	**1,500**	2,300	1,300	42	1,800
Benzo(k)fluoranthene	SW 8270	ug/kg dry	2,000	2,000	1,200	43	1,300
Chrysene	SW 8270	ug/kg dry	**4,200**	**4,400**	**2,500**	58	2,700
Dibenzo (a,h) anthracene	SW 8270	ug/kg dry	350	450	270	<380	<2,100
Fluoranthene	SW 8270	ug/kg dry	**7,600**	**7,300**	**4,200**	**67**	**3,900**
Fluorene	SW 8270	ug/kg dry	770	280	200	<380	120
Indeno(1,2,3-cd)pyrene	SW 8270	ug/kg dry	**1,400**	**2,100**	1,200	<380	1,500
Naphthalene	SW 8270	ug/kg dry	370	<2,000	<1,600	<380	<2,100
Phenanthrene	SW 8270	ug/kg dry	**6,500**	**3,300**	**1,900**	<38023	1,300
Pyrene	SW 8270	ug/kg dry	**7,800**	**6,900**	**3,800**	**72**	**3,700**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

TABLE 1: SEDIMENT CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-21	MW-11-22	MW-11-23
	Lab ID		1108A20-021	1108A20-022	1108A20-023
	Date Collected		**8/25/2011**	**8/25/2011**	**8/25/2011**
	Core Thickness (ft)		**5.08**	**5.66**	**3.33**
	Core Depth (ft)		**16.8**	**18**	**17.5**
	Latitude, ° ' N		**43 01.774**	**43 01.744**	**43 01.705**
	Longitude, ° ' W		**87 55.03**	**87 55.143**	**87 55.223**
Benzo(a)pyrene	SW 8270	ug/kg dry	**1,100**	**1,900**	**410**
Benzo(b)fluoranthene	SW 8270	ug/kg dry	**2,100**	**3,600**	**820**
Benzo(g,h,i)perylene	SW 8270	ug/kg dry	**450**	890	210
Benzo(k)fluoranthene	SW 8270	ug/kg dry	**750**	2,000	300
Chrysene	SW 8270	ug/kg dry	**1,400**	**2,400**	**450**
Dibenzo (a,h) anthracene	SW 8270	ug/kg dry	130	<1,800	60
Fluoranthene	SW 8270	ug/kg dry	**2,400**	**4,100**	**900**
Fluorene	SW 8270	ug/kg dry	69	160	27
Indeno(1,2,3-cd)pyrene	SW 8270	ug/kg dry	**420**	810	190
Naphthalene	SW 8270	ug/kg dry	21	<1,800	<380
Phenanthrene	SW 8270	ug/kg dry	**710**	1,400	300
Pyrene	SW 8270	ug/kg dry	**1,900**	**4,200**	**700**

Non-detected results = "<" Limit of Quantitation
results with "J" qualifier reported as estimated number
Bold type = results above LOQ

Appendix B

TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05	MW-11-06	MW-11-07
	Lab ID		1108A20-024	1108A20-025	1108A20-026	1108A20-027	1108A20-028	1108A20-029	1108A20-030
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
	Core Thickness (ft)		Ponar	3.58	4.25	Ponar	Ponar	3.42	4.33
	Core Depth (ft)		27.6	26.6	26.6	28.6	28.7	26.2	25
	Latitude, ° ' N		43 01.588	43 01.579	43 05.571	43 00.771	43 00.639	43 01.482	43 01.408
	Longitude, ° ' W		87 53.300	87 53.477	87 53.632	87 53.387	87 53.297	87 54.219	87 54.173
PCBs	**Method**	**Units**							
Aroclor-1016	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1221	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1232	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1242	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1248	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1254	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1260	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1262	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1268	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nutrient Kit	**Method**	**Units**							
Ammonia as N	SM 4500-NH3-D	mg/L	**2.2**	**11**	**6.7**	**1.4**	**0.87**	**5.6**	**5.9**
Total Kjeldahl Nitrogen	EPA 351.2	mg/L	**3.5**	**11**	**8**	**3**	**2**	**6.5**	**7**
Phosphorus	SM 4500-P-F	mg/L	**0.13**	**0.056**	**0.042**	**0.087**	**0.12**	**0.037**	**0.015**
Metals Kit	**Method**	**Units**							
Arsenic	SW 6020	ug/L	**2.1**	**1.5**	**0.97**	**1.4**	**2**	**1**	**0.8**
Barium	SW 6020	ug/L	**190**	**220**	**220**	**190**	**230**	**360**	**300**
Cadmium	SW 6020	ug/L	**0.19**	0.16	0.14	<0.40	0.14	0.12	0.13
Chromium	SW 6020	ug/L	**1.7**	3.7	1.7	1.2	**4.2**	1	**0.75**
Copper	SW 6020	ug/L	**1.7**	**2.3**	1.7	1.1	**2.1**	1.9	1.9
Iron	SW 6020	ug/L	**440**	**290**	**200**	**180**	**530**	**150**	**84**
Lead	SW 6020	ug/L	**1.2**	**1.6**	**0.47**	0.38	**1.7**	0.27	0.37
Manganese	SW 6020	ug/L	**270**	**100**	**130**	**190**	**120**	**370**	**200**
Mercury	SW 7470	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	**0.78**	1.6
Nickel	SW 6020	ug/L	2	2.1	1.9	1.3	1.4	1.7	<2
Selenium	SW 6020	ug/L	0.99	<2.0	<2.0	<2	<2	<2	<2
Silver	SW 6020	ug/L	0.18	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Zinc	SW 6020	ug/L	**64**	**86**	**81**	**55**	**43**	**91**	**70**
Organochlorine Pesticides	**Method**	**Units**							
4,4'-DDD	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
4,4'-DDE	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
4,4'-DDT	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Aldrin	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

Appendix B

TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-08	MW-11-09	MW-11-10	MW-11-11	MW-11-12	MW-11-13	MW-11-14
	Lab ID		1108A20-031	1108A20-032	1108A20-033	1108A20-034	1108A20-035	1108A20-036	1108A20-037
	Date Collected		8/24/2011	8/24/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/25/2011
	Core Thickness (ft)		Ponar	4.83	Ponar	Ponar	Ponar	3	5.83
	Core Depth (ft)		27	25.9	26.1	20.3	20.5	19.1	13.6
	Latitude, ° ' N		43 01.333	43 01.132	43 00.870	43 00.793	43 00.659	43 00.530	43 01.736
	Longitude, ° ' W		87 54.316	87 54.220	87 54.185	87 54.285	87 54.352	87 54.430	87 54.384
PCBs	**Method**	**Units**							
Aroclor-1016	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1221	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1232	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1242	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1248	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1254	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1260	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1262	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1268	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nutrient Kit	**Method**	**Units**							
Ammonia as N	SM 4500-NH3-D	mg/L	**1.9**	**4.1**	**1.6**	**1.8**	**2.4**	**8.2**	**9.6**
Total Kjeldahl Nitrogen	EPA 351.2	mg/L	**4**	**5.5**	**2.9**	**3.3**	**3.9**	**11**	**11**
Phosphorus	SM 4500-P-F	mg/L	**0.032**	**0.021**	**0.01**	**0.022**	**0.015**	**0.022**	**0.026**
Metals Kit	**Method**	**Units**							
Arsenic	SW 6020	ug/L	**1.2**	**2.2**	**1.4**	**1.5**	**1.1**	**1.5**	**0.99**
Barium	SW 6020	ug/L	**330**	**300**	**260**	**280**	**260**	**210**	**300**
Cadmium	SW 6020	ug/L	<0.40	0.12	<0.40	<0.40	<0.40	<0.40	0.2
Chromium	SW 6020	ug/L	1.2	1.8	1.5	1.4	0.64	0.82	0.9
Copper	SW 6020	ug/L	1.6	1.4	1.4	1.4	1.2	1.7	**2.6**
Iron	SW 6020	ug/L	**120**	**67**	**110**	**110**	**44**	**58**	**96**
Lead	SW 6020	ug/L	0.39	0.4	**0.7**	**0.93**	0.28	**0.68**	0.19
Manganese	SW 6020	ug/L	**360**	**150**	**240**	**210**	**220**	**100**	**340**
Mercury	SW 7470	ug/L	<0.2	<0.2	0.2	**4.2**	<0.2	<0.2	<0.2
Nickel	SW 6020	ug/L	1.5	2	1.6	1.4	1.9	2.7	1.9
Selenium	SW 6020	ug/L	<2	<2	<2	<2	<2	<2	1
Silver	SW 6020	ug/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Zinc	SW 6020	ug/L	**73**	**66**	**53**	**52**	**63**	**72**	**84**
Organochlorine Pesticides	**Method**	**Units**							
4,4'-DDD	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
4,4'-DDE	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
4,4'-DDT	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Aldrin	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-15	MW-11-16	MW-11-17	MW-11-118	MW-11-19	MW-11-20	MW-11-21
	Lab ID		1108A20-038	1108A20-039	1108A20-040	1108A20-041	1108A20-042	1108A20-043	1108A20-044
	Date Collected		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		5.83	1.25	4.42	4.42	5.08	5.08	5.08
	Core Depth (ft)		13.6	15.7	16.1	16.1	17	16.8	16.8
	Latitude, ° ' N		43 01.736	43 01.922	43 01.958	43 01.958	43 01.799	43 01.774	43 01.774
	Longitude, ° ' W		87 54.384	87 54.623	87 54.836	87 54.836	87 54.921	87 55.030	87 55.03
PCBs	**Method**	**Units**							
Aroclor-1016	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1221	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1232	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1242	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1248	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor-1254	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1260	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1262	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Aroclor-1268	SW 8082	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	SW 8082	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nutrient Kit	**Method**	**Units**							
Ammonia as N	SM 4500-NH3-D	mg/L	**11**	**3.5**	**9.6**	**12**	**9.2**	**9.2**	**16**
Total Kjeldahl Nitrogen	EPA 351.2	mg/L	**11**	**4.6**	**9.6**	**13**	**11**	**10**	**13**
Phosphorus	SM 4500-P-F	mg/L	**0.022**	**0.024**	**0.02**	**0.019**	**0.028**	**0.036**	**0.026**
Metals Kit	**Method**	**Units**							
Arsenic	SW 6020	ug/L	**1**	**0.93**	**1**	**1.1**	**1.1**	**1.1**	**1.3**
Barium	SW 6020	ug/L	**300**	**230**	**280**	**240**	**210**	**240**	**200**
Cadmium	SW 6020	ug/L	0.11	<0.40	0.12	0.15	0.11	0.14	0.12
Chromium	SW 6020	ug/L	0.58	0.62	0.61	0.5	0.84	0.82	0.7
Copper	SW 6020	ug/L	2.3	**2.3**	**2.3**	**2.6**	**3.3**	**4.7**	**3.5**
Iron	SW 6020	ug/L	**100**	**79**	**110**	**120**	**150**	**120**	**91**
Lead	SW 6020	ug/L	0.2	0.39	0.19	0.14	0.3	**0.29**	0.23
Manganese	SW 6020	ug/L	**130**	**8.6**	**390**	**150**	**170**	**200**	**84**
Mercury	SW 7470	ug/L	0.058	<0.2	<0.2	<0.2	<0.2	<0.2	0.099
Nickel	SW 6020	ug/L	1.9	2.3	2.3	2.1	2.2	2.4	2.3
Selenium	SW 6020	ug/L	1.5	0.92	1	<2	<2	1.2	1
Silver	SW 6020	ug/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Zinc	SW 6020	ug/L	**73**	**57**	**85**	**83**	**70**	**88**	**70**
Organochlorine Pesticides	**Method**	**Units**							
4,4'-DDD	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
4,4'-DDE	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
4,4'-DDT	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Aldrin	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011

Non-detected results = "<" Limit of Quantitation (LOQ)
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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-22	MW-11-123	MW-11-01 (background)
	Lab ID		1108A20-045	1108A20-046	1108A20-047
	Date Collected		8/25/2011	8/25/2011	8/24/2011
	Core Thickness (ft)		5.66	3.33	
	Core Depth (ft)		18	17.5	
	Latitude, ° ' N		43 01.744	43 01.705	
	Longitude, ° ' W		87 55.143	87 55.223	
PCBs	Method	Units			
Aroclor-1016	SW 8082	ug/L	<0.1	<0.1	<0.1
Aroclor-1221	SW 8082	ug/L	<0.1	<0.1	<0.1
Aroclor-1232	SW 8082	ug/L	<0.2	<0.2	<0.2
Aroclor-1242	SW 8082	ug/L	<0.2	<0.2	<0.2
Aroclor-1248	SW 8082	ug/L	<0.1	<0.1	<0.1
Aroclor-1254	SW 8082	ug/L	<0.2	<0.2	<0.2
Aroclor-1260	SW 8082	ug/L	<0.2	<0.2	<0.2
Aroclor-1262	SW 8082	ug/L	<0.2	<0.2	<0.2
Aroclor-1268	SW 8082	ug/L	<0.1	<0.1	<0.1
Total PCBs	SW 8082	ug/L	<0.2	<0.2	<0.2
Nutrient Kit	Method	Units			
Ammonia as N	SM 4500-NH3-D	mg/L	**10**	**12**	**0.07**
Total Kjeldahl Nitrogen	EPA 351.2	mg/L	**9**	**10**	**0.37**
Phosphorus	SM 4500-P-F	mg/L	**0.029**	**0.03**	**0.015**
Metals Kit	Method	Units			
Arsenic	SW 6020	ug/L	**1.4**	**1.3**	**0.72**
Barium	SW 6020	ug/L	**230**	**210**	**27**
Cadmium	SW 6020	ug/L	<0.40	<0.40	<0.40
Chromium	SW 6020	ug/L	1	0.89	0.77
Copper	SW 6020	ug/L	**5.2**	**3.8**	0.8
Iron	SW 6020	ug/L	**100**	**97**	71
Lead	SW 6020	ug/L	0.33	0.33	0.19
Manganese	SW 6020	ug/L	**160**	**210**	**13**
Mercury	SW 7470	ug/L	<0.2	<0.2	<0.2
Nickel	SW 6020	ug/L	2.1	2.2	1.9
Selenium	SW 6020	ug/L	0.7	0.93	1
Silver	SW 6020	ug/L	<1.5	<1.5	<1.5
Zinc	SW 6020	ug/L	**77**	**69**	**70**
Organochlorine Pesticides	Method	Units			
4,4'-DDD	SW 8081	ug/L	<0.011	<0.011	<0.01
4,4'-DDE	SW 8081	ug/L	<0.011	<0.011	<0.01
4,4'-DDT	SW 8081	ug/L	<0.011	<0.011	<0.01
Aldrin	SW 8081	ug/L	<0.011	<0.011	<0.01

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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05	MW-11-06	MW-11-07
	Lab ID		1108A20-024	1108A20-025	1108A20-026	1108A20-027	1108A20-028	1108A20-029	1108A20-030
	Date Collected		8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011
	Core Thickness (ft)		Ponar	3.58	4.25	Ponar	Ponar	3.42	4.33
	Core Depth (ft)		27.6	26.6	26.6	28.6	28.7	26.2	25
	Latitude, ° ' N		43 01.588	43 01.579	43 05.571	43 00.771	43 00.639	43 01.482	43 01.408
	Longitude, ° ' W		87 53.300	87 53.477	87 53.632	87 53.387	87 53.297	87 54.219	87 54.173
alpha-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
alpha-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
beta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Chlordane (Technical)	SW 8081	ug/L	<0.21	<0.22	<0.22	<0.22	<0.24	<0.25	<0.22
delta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Dieldrin	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Endosulfan I	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Endosulfan II	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Endosulfan sulfate	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Endrin	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Endrin aldehyde	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Endrin ketone	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
gamma-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
gamma-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Heptachlor	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Heptachlor epoxide	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Methoxychlor	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.012	<0.013	<0.011
Toxaphene	SW 8081	ug/L	<0.21	<0.22	<0.22	<0.22	<0.24	<0.25	<0.22
Semi-Volatile Organic Compounds/PAH	Method	Units							
2-Methylnaphthalene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4
Acenaphthene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4
Acenaphthylene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4
Anthracene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4
Benzo(a)anthracene	SW 8270	ug/L	<1.1	<1.1	<1.0	<1.1	<1.1	<1.2	<1.1
Benzo(a)pyrene	SW 8270	ug/L	<1.1	<1.1	<1.0	<1.1	<1.1	<1.2	<1.1
Benzo(b)fluoranthene	SW 8270	ug/L	<1.1	<1.1	<1.0	<1.1	<1.1	<1.2	<1.1
Benzo(g,h,i)perylene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.3	<2.3	<2.5	<2.2
Benzo(k)fluoranthene	SW 8270	ug/L	<1.1	<1.1	<1.0	<1.1	<1.1	<1.2	<1.1
Chrysene	SW 8270	ug/L	<1.1	<1.1	<1.0	<1.1	<1.1	<1.2	<1.1
Dibenzo (a,h) anthracene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.3	<2.3	<2.5	<2.2
Fluoranthene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.3	<2.3	<2.5	<2.2
Fluorene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4
Indeno(1,2,3-cd)pyrene	SW 8270	ug/L	<2.2	<2.2	2.1	<2.3	<2.3	<2.5	<2.2
Naphthalene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

Appendix B

TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-08	MW-11-09	MW-11-10	MW-11-11	MW-11-12	MW-11-13	MW-11-14
	Lab ID		1108A20-031	1108A20-032	1108A20-033	1108A20-034	1108A20-035	1108A20-036	1108A20-037
	Date Collected		8/24/2011	8/24/2011	8/26/2011	8/26/2011	8/26/2011	8/26/2011	8/25/2011
	Core Thickness (ft)		Ponar	4.83	Ponar	Ponar	Ponar	3	5.83
	Core Depth (ft)		27	25.9	26.1	20.3	20.5	19.1	13.6
	Latitude, ° ' N		43 01.333	43 01.132	43 00.870	43 00.793	43 00.659	43 00.530	43 01.736
	Longitude, ° ' W		87 54.316	87 54.220	87 54.185	87 54.285	87 54.352	87 54.430	87 54.384
alpha-BHC	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
alpha-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
beta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Chlordane (Technical)	SW 8081	ug/L	<0.22	<0.22	<0.24	<0.23	<0.23	<0.23	<0.22
delta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Dieldrin	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Endosulfan I	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Endosulfan II	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Endosulfan sulfate	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Endrin	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Endrin aldehyde	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Endrin ketone	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
gamma-BHC	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
gamma-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Heptachlor	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Heptachlor epoxide	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Methoxychlor	SW 8081	ug/L	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011
Toxaphene	SW 8081	ug/L	<0.22	<0.22	<0.24	<0.23	<0.23	<0.23	<0.22
Semi-Volatile Organic Compounds/PAH	Method	Units							
2-Methylnaphthalene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3
Acenaphthene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3
Acenaphthylene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3
Anthracene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3
Benzo(a)anthracene	SW 8270	ug/L	<1.1	<1.1	<1.1	<1.3	<1	<1	<1.1
Benzo(a)pyrene	SW 8270	ug/L	<1.1	<1.1	<1.1	<1.3	<1	<1	<1.1
Benzo(b)fluoranthene	SW 8270	ug/L	<1.1	<1.1	<1.1	<1.3	<1	<1	<1.1
Benzo(g,h,i)perylene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.6	<2.1	<2.1	<2.1
Benzo(k)fluoranthene	SW 8270	ug/L	<1.1	<1.1	<1.1	<1.3	<1	<1	<1.1
Chrysene	SW 8270	ug/L	<1.1	<1.1	<1.1	<1.3	<1	<1	<1.1
Dibenzo (a,h) anthracene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.6	<2.1	<2.1	<2.1
Fluoranthene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.6	<2.1	<2.1	<2.1
Fluorene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3
Indeno(1,2,3-cd)pyrene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.6	<2.1	<2.1	<2.1
Naphthalene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

Appendix B

TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-15	MW-11-16	MW-11-17	MW-11-118	MW-11-19	MW-11-20	MW-11-21
	Lab ID		1108A20-038	1108A20-039	1108A20-040	1108A20-041	1108A20-042	1108A20-043	1108A20-044
	Date Collected		8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
	Core Thickness (ft)		5.83	1.25	4.42	4.42	5.08	5.08	5.08
	Core Depth (ft)		13.6	15.7	16.1	16.1	17	16.8	16.8
	Latitude, ° ' N		43 01.736	43 01.922	43 01.958	43 01.958	43 01.799	43 01.774	43 01.774
	Longitude, ° ' W		87 54.384	87 54.623	87 54.836	87 54.836	87 54.921	87 55.030	87 55.03
alpha-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
alpha-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
beta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Chlordane (Technical)	SW 8081	ug/L	<0.21	<0.22	<0.21	<0.22	<0.21	<0.21	<0.22
delta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Dieldrin	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Endosulfan I	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Endosulfan II	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Endosulfan sulfate	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Endrin	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Endrin aldehyde	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Endrin ketone	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
gamma-BHC	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
gamma-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Heptachlor	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Heptachlor epoxide	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Methoxychlor	SW 8081	ug/L	<0.011	<0.011	<0.011	<0.011	<0.010	<0.011	<0.011
Toxaphene	SW 8081	ug/L	<0.21	<0.22	<0.21	<0.22	<0.21	<0.21	<0.22
Semi-Volatile Organic Compounds/PAH	Method	Units							
2-Methylnaphthalene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1
Acenaphthene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1
Acenaphthylene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1
Anthracene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1
Benzo(a)anthracene	SW 8270	ug/L	<1	<1	<1	<1	<1	<1.1	<1
Benzo(a)pyrene	SW 8270	ug/L	<1	<1	<1	<1	<1	<1.1	<1
Benzo(b)fluoranthene	SW 8270	ug/L	<1	<1	<1	<1	<1	<1.1	<1
Benzo(g,h,i)perylene	SW 8270	ug/L	<2.1	<2.1	<2.1	<2	<2	<2.2	<2
Benzo(k)fluoranthene	SW 8270	ug/L	<1	<1	<1	<1	<1	<1.1	<1
Chrysene	SW 8270	ug/L	<1	<1	<1	<1	<1	<1.1	<1
Dibenzo (a,h) anthracene	SW 8270	ug/L	<2.1	<2.1	<2.1	<2	<2	<2.2	<2
Fluoranthene	SW 8270	ug/L	<2.1	<2.1	<2.1	<2	<2	<2.2	<2
Fluorene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1
Indeno(1,2,3-cd)pyrene	SW 8270	ug/L	<2.1	<2.1	<2.1	<2	<2	<2.2	<2
Naphthalene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-22	MW-11-123	MW-11-01 (background)
	Lab ID		1108A20-045	1108A20-046	1108A20-047
	Date Collected		8/25/2011	8/25/2011	8/24/2011
	Core Thickness (ft)		5.66	3.33	
	Core Depth (ft)		18	17.5	
	Latitude, ° ' N		43 01.744	43 01.705	
	Longitude, ° ' W		87 55.143	87 55.223	
alpha-BHC	SW 8081	ug/L	<0.011	<0.011	<0.01
alpha-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.01
beta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.01
Chlordane (Technical)	SW 8081	ug/L	<0.21	<0.22	<0.2
delta-BHC	SW 8081	ug/L	<0.011	<0.011	<0.01
Dieldrin	SW 8081	ug/L	<0.011	<0.011	<0.01
Endosulfan I	SW 8081	ug/L	<0.011	<0.011	<0.01
Endosulfan II	SW 8081	ug/L	<0.011	<0.011	<0.01
Endosulfan sulfate	SW 8081	ug/L	<0.011	<0.011	<0.01
Endrin	SW 8081	ug/L	<0.011	<0.011	<0.01
Endrin aldehyde	SW 8081	ug/L	<0.011	<0.011	<0.01
Endrin ketone	SW 8081	ug/L	<0.011	<0.011	<0.01
gamma-BHC	SW 8081	ug/L	<0.011	<0.011	<0.01
gamma-Chlordane	SW 8081	ug/L	<0.011	<0.011	<0.01
Heptachlor	SW 8081	ug/L	<0.011	<0.011	<0.01
Heptachlor epoxide	SW 8081	ug/L	<0.011	<0.011	<0.01
Methoxychlor	SW 8081	ug/L	<0.011	<0.011	<0.01
Toxaphene	SW 8081	ug/L	<0.21	<0.22	<0.2
Semi-Volatile Organic Compounds/PAH	Method	Units			
2-Methylnaphthalene	SW 8270	ug/L	<6	<5.3	<5
Acenaphthene	SW 8270	ug/L	<6	<5.3	<5
Acenaphthylene	SW 8270	ug/L	<6	<5.3	<5
Anthracene	SW 8270	ug/L	<6	<5.3	<5
Benzo(a)anthracene	SW 8270	ug/L	<1.2	<1.1	<1
Benzo(a)pyrene	SW 8270	ug/L	<1.2	<1.1	<1
Benzo(b)fluoranthene	SW 8270	ug/L	<1.2	<1.1	<1
Benzo(g,h,i)perylene	SW 8270	ug/L	<2.4	<2.1	<2
Benzo(k)fluoranthene	SW 8270	ug/L	<1.2	<1.1	<1
Chrysene	SW 8270	ug/L	<1.2	<1.1	<1
Dibenzo (a,h) anthracene	SW 8270	ug/L	<2.4	<2.1	<2
Fluoranthene	SW 8270	ug/L	<2.4	<2.1	<2
Fluorene	SW 8270	ug/L	<6	<5.3	<5
Indeno(1,2,3-cd)pyrene	SW 8270	ug/L	<2.4	<2.1	<2
Naphthalene	SW 8270	ug/L	<6	<5.3	<5

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05	MW-11-06	MW-11-07
	Lab ID		1108A20-024	1108A20-025	1108A20-026	1108A20-027	1108A20-028	1108A20-029	1108A20-030
	Date Collected		**8/24/2011**	**8/24/2011**	**8/24/2011**	**8/24/2011**	**8/24/2011**	**8/24/2011**	**8/24/2011**
	Core Thickness (ft)		**Ponar**	**3.58**	**4.25**	**Ponar**	**Ponar**	**3.42**	**4.33**
	Core Depth (ft)		**27.6**	**26.6**	**26.6**	**28.6**	**28.7**	**26.2**	**25**
	Latitude, ° ' N		**43 01.588**	**43 01.579**	**43 05.571**	**43 00.771**	**43 00.639**	**43 01.482**	**43 01.408**
	Longitude, ° ' W		**87 53.300**	**87 53.477**	**87 53.632**	**87 53.387**	**87 53.297**	**87 54.219**	**87 54.173**
Phenanthrene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.3	<2.3	<2.5	<2.2
Pyrene	SW 8270	ug/L	<5.6	<5.6	<5.2	<5.7	<5.7	<6.2	<5.4

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-08	MW-11-09	MW-11-10	MW-11-11	MW-11-12	MW-11-13	MW-11-14
	Lab ID		1108A20-031	1108A20-032	1108A20-033	1108A20-034	1108A20-035	1108A20-036	1108A20-037
	Date Collected		**8/24/2011**	**8/24/2011**	**8/26/2011**	**8/26/2011**	**8/26/2011**	**8/26/2011**	**8/25/2011**
	Core Thickness (ft)		**Ponar**	**4.83**	**Ponar**	**Ponar**	**Ponar**	**3**	**5.83**
	Core Depth (ft)		**27**	**25.9**	**26.1**	**20.3**	**20.5**	**19.1**	**13.6**
	Latitude, ° ' N		**43 01.333**	**43 01.132**	**43 00.870**	**43 00.793**	**43 00.659**	**43 00.530**	**43 01.736**
	Longitude, ° ' W		**87 54.316**	**87 54.220**	**87 54.185**	**87 54.285**	**87 54.352**	**87 54.430**	**87 54.384**
Phenanthrene	SW 8270	ug/L	<2.2	<2.2	<2.1	<2.6	<2.1	<2.1	<2.1
Pyrene	SW 8270	ug/L	<5.6	<5.4	<5.3	<6.5	<5.2	<5.2	<5.3

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-15	MW-11-16	MW-11-17	MW-11-118	MW-11-19	MW-11-20	MW-11-21
	Lab ID		1108A20-038	1108A20-039	1108A20-040	1108A20-041	1108A20-042	1108A20-043	1108A20-044
	Date Collected		**8/25/2011**	**8/25/2011**	**8/25/2011**	**8/25/2011**	**8/25/2011**	**8/25/2011**	**8/25/2011**
	Core Thickness (ft)		**5.83**	**1.25**	**4.42**	**4.42**	**5.08**	**5.08**	**5.08**
	Core Depth (ft)		**13.6**	**15.7**	**16.1**	**16.1**	**17**	**16.8**	**16.8**
	Latitude, ° ' N		**43 01.736**	**43 01.922**	**43 01.958**	**43 01.958**	**43 01.799**	**43 01.774**	**43 01.774**
	Longitude, ° ' W		**87 54.384**	**87 54.623**	**87 54.836**	**87 54.836**	**87 54.921**	**87 55.030**	**87 55.03**
Phenanthrene	SW 8270	ug/L	<2.1	<2.1	<2.1	<2	<2	<2.2	<2
Pyrene	SW 8270	ug/L	<5.2	<5.2	<5.2	<5.1	<5	<5.6	<5.1

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

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TABLE 2: ELUTRIATE PROCEDURE CHEMICAL ANALYSIS RESULTS

Parameter	Sample ID		MW-11-22	MW-11-123	MW-11-01 (background)
	Lab ID		1108A20-045	1108A20-046	1108A20-047
	Date Collected		**8/25/2011**	**8/25/2011**	**8/24/2011**
	Core Thickness (ft)		**5.66**	**3.33**	
	Core Depth (ft)		**18**	**17.5**	
	Latitude, ° ' N		**43 01.744**	**43 01.705**	
	Longitude, ° ' W		**87 55.143**	**87 55.223**	
Phenanthrene	SW 8270	ug/L	<2.4	<2.1	<2
Pyrene	SW 8270	ug/L	<6	<5.3	<5

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above LOQ

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TABLE 3: GRAIN SIZE ANALYSIS

Sample ID	Lab Sample ID	Analysis Method	Date Collected	Core Thickness (ft)	Core Depth (ft)	Latitude ° ' N	Longitude ° ' W	% Moisture	% Coarse Gravel	% Fine Gravel	% Coarse Sand
MW-11-01	**1108A20-001**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**27.6**	**43 01.588**	**87 53.300**	**43**	0.0	0.0	0.0
MW-11-02	**1108A20-002**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**3.58**	**26.6**	**43 01.579**	**87 53.477**	**45**	0.0	0.0	0.0
MW-11-03	**1108A20-003**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**4.25**	**26.6**	**43 01.571**	**87 53.632**	**49**	0.0	0.0	0.0
MW-11-04	**1108A20-004**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**28.6**	**43 00.771**	**87 53.387**	**51**	0.0	0.0	0.0
MW-11-05	**1108A20-005**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**28.7**	**43 00.639**	**87 53.297**	**58**	0.0	0.4	2.0
MW-11-06	**1108A20-006**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**3.42**	**26.2**	**43 01.482**	**87 54.219**	**59**	0.0	0.3	0.0
MW-11-07	**1108A20-007**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**4.33**	**25.0**	**43 01.408**	**87 54.173**	56	0.0	0.0	0.0
MW-11-08	**1108A20-006**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**27.0**	**43 01.333**	**87 54.316**	**59**	0.0	0.0	0.0
MW-11-09	**1108A20-009**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**4.83**	**25.9**	**43 01.132**	**87 54.220**	**44**	0.0	5.3	3.6
MW-11-10	**1108A20-010**	**ASTM D421, D-422, D 2216**	**8/26/2011**	**Ponar**	**26.1**	**43 00.870**	**87 54.185**	**56**	0.0	4.5	0.0
MW-11-11	**1108A20-011**	**ASTM D421, D-422, D 2216**	**8/26/2011**	**Ponar**	**20.3**	**43 00.793**	**87 54.285**	**51**	0.0	0.5	2.8
MW-11-12	**1108A20-012**	**ASTM D421, D-422, D 2216**	**8/26/2011**	**Ponar**	**20.5**	**43 00.659**	**87 54.352**	**51**	0.0	4.5	0.0
MW-11-13	**1108A20-013**	**ASTM D421, D422, D2216**	**8/26/2011**	**3.0**	**19.1**	**43 00.530**	**87 54.430**	**44**	0.0	5.9	1.8
MW-11-14	**1108A20-014**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.83**	**13.6**	**43 01.736**	**87 54.384**	**62**	0.0	0.0	1.5
MW-11-15	**1108A20-015**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.83**	**13.6**	**43 01.736**	**87 54.384**	**56**	0.0	0.0	0.0

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above the LOQ

Appendix B

TABLE 3: GRAIN SIZE ANALYSIS

Sample ID	Lab Sample ID	Analysis Method	Date Collected	Core Thickness (ft)	Core Depth (ft)	Latitude ° ' N	Longitude ° ' W	% Medium Sand	% Fine Sand	% Fines	Total %
MW-11-01	**1108A20-001**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**27.6**	**43 01.588**	**87 53.300**	3.4	46.4	50.2	100.0
MW-11-02	**1108A20-002**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**3.58**	**26.6**	**43 01.579**	**87 53.477**	0.1	17.5	82.4	100.0
MW-11-03	**1108A20-003**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**4.25**	**26.6**	**43 01.571**	**87 53.632**	0.3	22.5	77.2	100.0
MW-11-04	**1108A20-004**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**28.6**	**43 00.771**	**87 53.387**	0.2	4.6	95.2	100.0
MW-11-05	**1108A20-005**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**28.7**	**43 00.639**	**87 53.297**	0.0	8.0	89.6	100.0
MW-11-06	**1108A20-006**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**3.42**	**26.2**	**43 01.482**	**87 54.219**	0.3	6.7	92.7	100.0
MW-11-07	**1108A20-007**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**4.33**	**25.0**	**43 01.408**	**87 54.173**	0.0	12.0	88.0	100.0
MW-11-08	**1108A20-006**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**Ponar**	**27.0**	**43 01.333**	**87 54.316**	0.0	5.3	94.7	100.0
MW-11-09	**1108A20-009**	**ASTM D421, D-422, D 2216**	**8/24/2011**	**4.83**	**25.9**	**43 01.132**	**87 54.220**	3.8	17.8	69.5	100.0
MW-11-10	**1108A20-010**	**ASTM D421, D-422, D 2216**	**8/26/2011**	**Ponar**	**26.1**	**43 00.870**	**87 54.185**	0.1	9.1	86.3	100.0
MW-11-11	**1108A20-011**	**ASTM D421, D-422, D 2216**	**8/26/2011**	**Ponar**	**20.3**	**43 00.793**	**87 54.285**	0.0	8.1	88.6	100.0
MW-11-12	**1108A20-012**	**ASTM D421, D-422, D 2216**	**8/26/2011**	**Ponar**	**20.5**	**43 00.659**	**87 54.352**	0.0	10.5	85.0	100.0
MW-11-13	**1108A20-013**	**ASTM D421, D422, D2216**	**8/26/2011**	**3.0**	**19.1**	**43 00.530**	**87 54.430**	3.8	23.7	64.8	100.0
MW-11-14	**1108A20-014**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.83**	**13.6**	**43 01.736**	**87 54.384**	0.5	16.7	81.3	100.0
MW-11-15	**1108A20-015**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.83**	**13.6**	**43 01.736**	**87 54.384**	0.5	8.2	91.3	100.0

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above the LOQ

Appendix B

TABLE 3: GRAIN SIZE ANALYSIS

Sample ID	Lab Sample ID	Analysis Method	Date Collected	Core Thickness (ft)	Core Depth (ft)	Latitude ° ' N	Longitude ° ' W	% Moisture	% Coarse Gravel	% Fine Gravel	% Coarse Sand
MW-11-16	**1108A20-016**	**ASTM D421, D422, D2216**	**8/25/2011**	**1.25**	**15.7**	**43 01.922**	**87 54.623**	**34**	0.0	2.7	3.5
MW-11-17	**1108A20-017**	**ASTM D421, D422, D2216**	**8/25/2011**	**4.42**	**16.1**	**43 01.958**	**87 54.836**	**60**	0.0	1.2	0.6
MW-11-18	**1108A20-018**	**ASTM D421, D422, D2216**	**8/25/2011**	**4.42**	**16.1**	**43 01.958**	**87 54.836**	**52**	0.0	1.2	2.0
MW-11-19	**1108A20-019**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.08**	**17.0**	**43 01.799**	**87 54.921**	**59**	0.0	0.0	0.0
MW-11-20	**1108A20-020**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.08**	**16.8**	**43 01.774**	**87 55.030**	**61**	0.0	0.0	0.2
MW-11-21	**1108A20-021**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.08**	**16.8**	**43 01.774**	**87 55.030**	**46**	0.0	0.0	0.0
MW-11-22	**1108A20-022**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.66**	**18.0**	**43 01.744**	**87 55.143**	**56**	0.0	0.0	0.0
MW-11-23	**1108A20-023**	**ASTM D421, D422, D2216**	**8/25/2011**	**3.33**	**17.5**	**43 01.705**	**87 55.223**	**58**	0.0	0.0	0.0

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above the LOQ

Appendix B

TABLE 3: GRAIN SIZE ANALYSIS

Sample ID	Lab Sample ID	Analysis Method	Date Collected	Core Thickness (ft)	Core Depth (ft)	Latitude ° ' N	Longitude ° ' W	% Medium Sand	% Fine Sand	% Fines	Total %
MW-11-16	**1108A20-016**	**ASTM D421, D422, D2216**	**8/25/2011**	**1.25**	**15.7**	**43 01.922**	**87 54.623**	4.0	71.8	18.0	100.0
MW-11-17	**1108A20-017**	**ASTM D421, D422, D2216**	**8/25/2011**	**4.42**	**16.1**	**43 01.958**	**87 54.836**	0.9	7.8	89.5	100.0
MW-11-18	**1108A20-018**	**ASTM D421, D422, D2216**	**8/25/2011**	**4.42**	**16.1**	**43 01.958**	**87 54.836**	0.0	10.0	86.8	100.0
MW-11-19	**1108A20-019**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.08**	**17.0**	**43 01.799**	**87 54.921**	0.0	2.2	97.8	100.0
MW-11-20	**1108A20-020**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.08**	**16.8**	**43 01.774**	**87 55.030**	0.0	1.0	98.8	100.0
MW-11-21	**1108A20-021**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.08**	**16.8**	**43 01.774**	**87 55.030**	3.4	3.5	93.1	100.0
MW-11-22	**1108A20-022**	**ASTM D421, D422, D2216**	**8/25/2011**	**5.66**	**18.0**	**43 01.744**	**87 55.143**	0.0	3.6	96.4	100.0
MW-11-23	**1108A20-023**	**ASTM D421, D422, D2216**	**8/25/2011**	**3.33**	**17.5**	**43 01.705**	**87 55.223**	0.3	8.8	90.9	100.0

Non-detected results = "<" Limit of Quantitation (LOQ)
Results with "J" qualifier reported as estimated number
Bold type = results above the LOQ

Appendix C
Milwaukee Core Log

Station #	MW-11-01	MW-11-02	MW-11-03	MW-11-04	MW-11-05	MW-11-06	MW-11-07	MW-11-08	MW-11-09	MW-11-10	MW-11-11	MW-11-12
Latitude, N	43° 01.588'	43° 01.579'	43° 01.571'	43° 00.771'	43° 00.639'	43° 01.482'	43° 01.408'	43° 01.333'	43° 01.132'	43° 00.870'	43° 00.793'	43° 00.659'
Longitude, W	87° 53.300'	87° 53.477'	87° 53.632'	87° 53.387'	87° 53.297'	87° 54.219'	87° 54.173'	87° 54.316'	87° 54.220'	87° 54.185'	87° 54.285'	87° 54.352'
Collection Method	Ponar	Vibra-core	Vibra-core	Ponar	Ponar	Vibra-core	Vibra-core	Ponar	Vibra-core	Ponar	Ponar	Ponar
Water Depth	27.6	26.6	26.6	28.6	28.7	26.2	25	27	25.9	26.1	20.3	20.5
Soft Sediment Thickness 1.5" Rod	32	58	49	68	30	62	49	60	32	82	82	56
Vibracore Sample Length (in)	N/A	43	51	N/A	N/A	41	52	N/A	58	N/A	N/A	N/A
Core Tube Diameter (in)	N/A	4	4	N/A	N/A	4	4	N/A	4	N/A	N/A	N/A
Core Tube Material	N/A	CAB	CAB	N/A	N/A	CAB	CAB	N/A	CAB	N/A	N/A	N/A
Date	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/26/2011	8/26/2011	8/26/2011
Time	12:24	13:25	14:42	11:16	10:12	15:50	17:09	18:38	19:26	12:08	11:25	10:40
Low Water Datum	578.28	578.24	578.17	578.22	578.13	578.19	578.18	578.06	578.14	578.17	578.24	578.17
Elevation sediment	550.68	551.64	551.57	549.62	549.43	551.99	553.18	551.06	552.24	552.07	557.94	557.67
Elev base of core		548.06	547.32			548.57	548.85		547.41			
Elevation at core split												

Station #	MW-11-13	MW-11-14+15	MW-11-16	MW-11-17+18	MW-11-19	MW-11-20+21	MW-11-22	MW-11-23
Latitude, N	43° 00.530'	43° 01.736'	43° 01.922'	43° 01.958'	43° 01.799'	43° 01.774'	43° 01.744'	43° 01.705'
Longitude, W	87° 54.430'	87° 54.384'	87° 54.623'	87° 54.836'	87° 54.921'	87° 55.030'	87° 55.143'	87° 55.223'
Collection Method	Vibra-core	Vibra-core	Vibra-core	Vibra-core	Vibra-core	Vibra-core	Vibra-core	Vibra-core
Water Depth	19.1	13.6	15.7	16.1	17	16.8	18	17.5
Soft Sediment Thickness 1.5" Rod	21	96	<2	70	60	62	80	59
Vibracore Sample Length (in)	36	70	15	53	61	61	68	40
Core Tube Diameter (in)	4	4	4	4	4	4	4	4
Core Tube Material	CAB	CAB	CAB	CAB	CAB	CAB	CAB	CAB
Date	8/26/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011	8/25/2011
Time	9:35	11:35	12:55	14:35	15:55	19:20	17:10	18:05
Low Water Datum	578.25	578.14	578.08	578.14	578.06	578.09	578.07	578.06
Elevation sediment	559.15	564.54	562.38	562.04	561.06	561.29	560.07	560.56
Elev base of core	556.15	558.71	561.13	557.62	555.98	556.21	554.40	557.23
Elevation at core split		561.62		559.83		558.75		

Appendix D

Appendix D contains the core logs for the samples collected in the Milwaukee harbor.

Samples collected using a Ponar dredge are assumed to have an effective core length of 0.67 feet.

Elevations shown are adjusted using the observed water level from Station 9087057, located at Milwaukee, WI and the Mean Low Water Datum for Lake Michigan. Then MLW datum is 577.5 ft.

This appendix contains this page and 23 pages of logs.

LOG OF SEDIMENT CORE

MW-11-01

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/24/2011	12:24 pm

Depth to Top of Sediment: 27.6 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.588
Long: 8753.299

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
550.68				0	Sediment Surface	
				0.67	Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		

Remarks:
Low Water Datum: 578.28

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-02

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	3.58	8/24/2011	1:25 pm

Depth to Top of Sediment: 26.6 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.579
Long: 8753.475

Core Attempts: 1
Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
551.64				0	Sediment Surface
					Extent of vibracore.
548.06				3.58	
					Solid rod probe in soft sediment.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.28

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-03

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	4.25	8/24/2011	2:42 pm

Depth to Top of Sediment: 26.6 ft
Sample Target Intervals (bts):

Coordinates: Lat: 4305.571 Long: 8753.632

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
551.57				0	Sediment Surface
					Solid rod probe in soft sediment.
547.32				4.25	Further extent of vibracore.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.17

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-04

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/24/2011	11:16 am

Depth to Top of Sediment: 28.6 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4300.771
Long: 8753.338

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
549.62				0	Sediment Surface	
				0.67		
					Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		

Remarks:
Low Water Datum: 578.22

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-05

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/24/2011	10:12 am

Depth to Top of Sediment: 28.7 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4300.637
Long: 8753.303

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
549.43				0	Sediment Surface	
				0.67	Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		

Remarks:
Low Water Datum: 578.13

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-06

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	3.42	8/24/2011	3:50 pm

Depth to Top of Sediment: 26.2 ft
Sample Target Intervals (bts):

Coordinates: Lat: 4301.48 Long: 8754.22

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
551.99				0	Sediment Surface
					Extent of vibracore.
548.57				3.42	
					Solid rod probe in soft sediment.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.19

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-07

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	4.33	8/24/2011	5:09 pm

Depth to Top of Sediment: 25 ft
Sample Target Intervals (bts):
Core Attempts:
Coordinates: Lat: 4301.407 Long: 8754.173
Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
553.18				0	Sediment Surface
					Solid Rod Probe In Soft Sediment.
548.85				4.33	Further extent of vibracore.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.18

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-08

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/24/2011	7:26 pm

Depth to Top of Sediment: 27 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.333
Long: 8754.317

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
551.06				0	Sediment Surface	
				0.67		
					Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		

Remarks:
Low Water Datum: 578.06

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-09

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	4.83	8/24/2011	7:26 pm

Depth to Top of Sediment: 25.9 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.135
Long: 8754.218

Core Attempts:

Date: 8/24/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
552.24				0	Sediment Surface
					Solid rod probe in soft sediment.
					Further extent of vibracore.
547.41				4.83	
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.14

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-10

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/26/2011	12:08 pm

Depth to Top of Sediment: 26.1 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4300.876
Long: 8754.184

Core Attempts:

Date: 8/26/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
552.07				0	Sediment Surface	
				0.67	Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		

Remarks:
Low Water Datum: 578.17

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-11

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

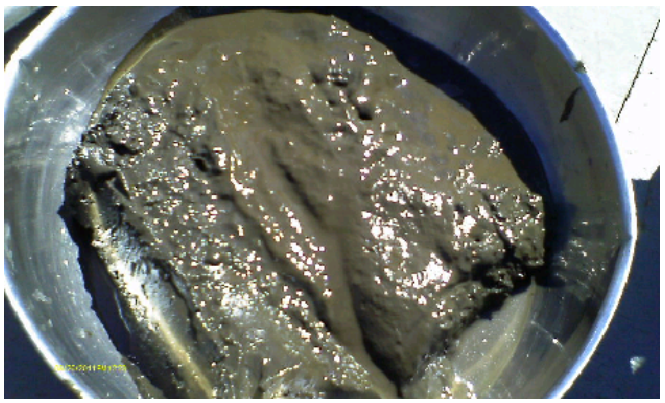
Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/26/2011	11:25 am

Depth to Top of Sediment: 20.3 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4300.786
Long: 8754.285

Core Attempts:

Date: 8/26/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
557.94				0	Sediment Surface	
				0.67	Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		

Remarks:
Low Water Datum: 578.24

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-12

Project No:
Operator: GLEC
Method: Ponar
Sample Type: GB
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
Ponar	0.67	8/26/2011	10:40 am

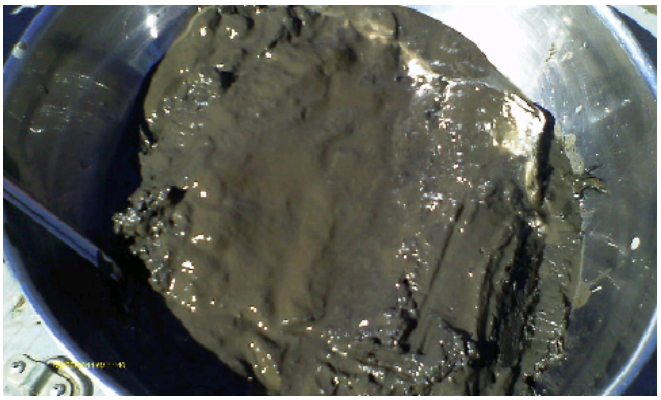
Depth to Top of Sediment: 20.5 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4300.659
Long: 8754.346

Core Attempts:

Date: 8/26/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
557.67				0	Sediment Surface	
				0.67	Solid rod probe in soft sediment. No core attempted - Ponar (grab) sample obtained.	
				5		
				10		



Remarks:
Low Water Datum: 578.17

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-13

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	3	8/26/2011	9:35 am

Depth to Top of Sediment: 19.1 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4300.527
Long: 8754.434

Core Attempts:

Date: 8/26/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
559.15				0	Sediment Surface
					Solid rod probe in soft sediment.
					Further extent of vibracore.
556.15				3.00	
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.25

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-14

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	5.83	8/25/2011	11:35 am

Depth to Top of Sediment: 13.6 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.736
Long: 8754.384

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
564.54				0	Sediment Surface
561.62				5	Extent of vibracore.
558.71				5.83	Solid rod probe in soft sediment.
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.14

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-15

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	5.83	8/25/2011	11:35 am

Depth to Top of Sediment: 13.6 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.736
Long: 8754.384

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
564.54				0	Sediment Surface
561.62				5	Extent of vibracore.
558.71				5.83	Solid rod probe in soft sediment.
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.14

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-16

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	1.25	8/25/2011	12:55 pm

Depth to Top of Sediment: 15.7 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.92
Long: 8754.625

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
562.38				0	Sediment Surface
					Extent of vibracore.
561.13				1.25	Solid rod probe in soft sediment.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.08

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-17

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	4.42	8/25/2011	2:35 pm

Depth to Top of Sediment: 16.1 ft
Sample Target Intervals (bts):

Coordinates: Lat: 4301.959 Long: 8754.836

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
562.04				0	Sediment Surface
559.83					Extent of vibracore.
557.62				4.42	
				5	Solid rod probe in soft sediment.
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.14

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-18

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	4.42	8/25/2011	2:35 pm

Depth to Top of Sediment: 16.1 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.959
Long: 8754.836

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
562.04				0	Sediment Surface
559.83					Extent of vibracore.
557.62				4.42	
				5	Solid rod probe in soft sediment.
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.14

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-19

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	5.08	8/25/2011	3:55 pm

Depth to Top of Sediment: 17 ft
Sample Target Intervals (bts):
Core Attempts:
Coordinates: Lat: 4301.799 Long: 8754.922
Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
561.06				0	Sediment Surface
					Solid rod probe in soft sediment.
555.98				5.08	Further extent of vibracore.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.06

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-20

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	5.08	8/25/2011	7:20 pm

Depth to Top of Sediment: 16.8 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.775
Long: 8755.03

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
561.29				0	Sediment Surface
558.75					Extent of vibracore.
556.21				5.08	Solid rod probe in soft sediment.
				5	
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.09

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-21

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	5.08	8/25/2011	7:20 pm

Depth to Top of Sediment: 16.8 ft
Sample Target Intervals (bts):

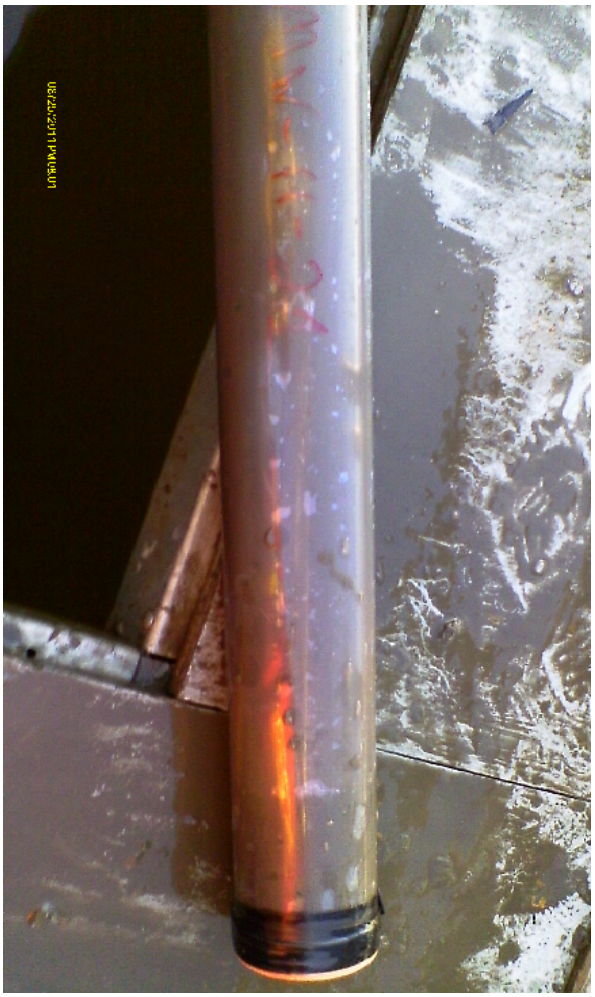
Coordinates: Lat: 4301.775 Long: 8755.03

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
561.29				0	Sediment Surface
558.75					Extent of vibracore.
556.21				5.08 5	Solid rod probe in soft sediment.
				10	

Photograph of Sediment Core(s)



Remarks:
Low Water Datum: 578.09

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-22

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

Core No.	Recovery (ft)	Core Date	Time
1	5.66	8/25/2011	5:10 pm

Depth to Top of Sediment: 18 ft
Sample Target Intervals (bts):
Core Attempts:
Coordinates: Lat: 4301.744 Long: 8755.142
Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description
560.07				0	Sediment Surface
					Extent of vibracore.
				5	
554.40				5.66	Solid rod probe in soft sediment.
				10	

Photograph of Sediment Core(s)

Remarks:
Low Water Datum: 578.07

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

LOG OF SEDIMENT CORE

MW-11-23

Project No:
Operator: GLEC
Method: Vibracore
Sample Type: CT
Sampler(s):

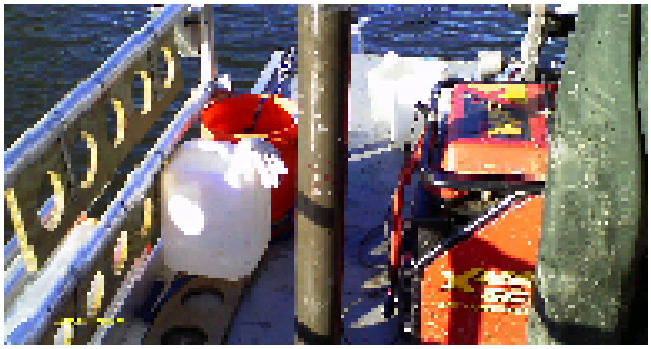
Core No.	Recovery (ft)	Core Date	Time
1	3.33	8/25/2011	6:05 pm

Depth to Top of Sediment: 17.5 ft
Sample Target Intervals (bts):

Coordinates:
Lat: 4301.705
Long: 8755.223

Core Attempts:

Date: 8/25/2011

Elevation (ft)	CORE NO. C1	CORE NO. C2	SAMPLE	Depth (ft)	Description	Photograph of Sediment Core(s)
560.56				0	Sediment Surface	
					Extent of vibracore.	
557.23				3.33		
					Solid rod probe in soft sediment.	
				5		
				10		

Remarks:
Low Water Datum: 578.06

Notes:
CT = Acetate Core Tube

RTI LABORATORIES

LOG OF SEDIMENT CORE-RTI MILWAUKEE.GPJ SOMAT.GDT 1/6/12

Appendix E

Appendix E presents photos of samples and mixed samples collected from Milwaukee Harbor during the event in August 2011.

MW-11-01 (Organics)

MW-11-01

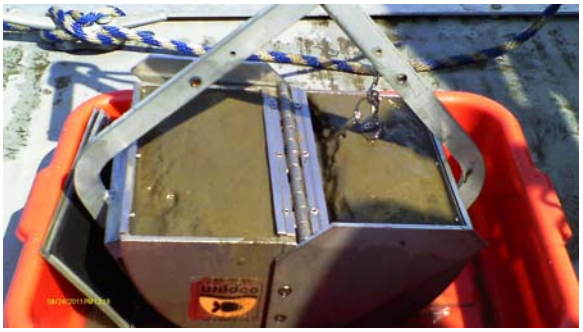
MW-11-02 Core

MW-11-02

MW-11-03 Core

MW-11-03

Appendix E



MW-11-04 in Ponar

MW-11-04

MW-11-05

MW-11-06 Core

MW-11-06

MW-11-07

Appendix E

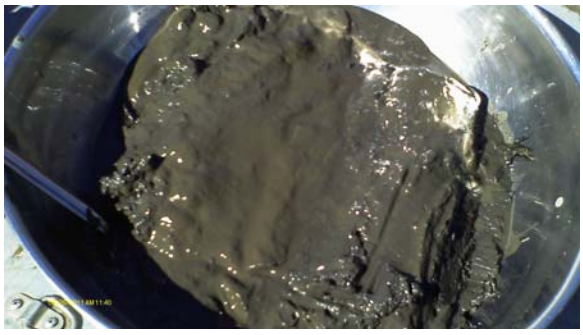
MW-11-08

MW-11-09 Core

MW-11-09

MW-11-10

MW-11-11

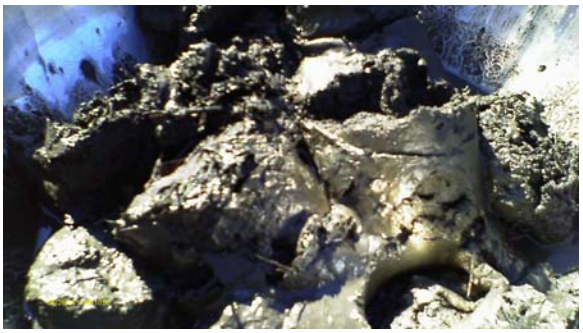


MW-11-12

Appendix E

MW-11-13 Core

MW-11-13A



MW-11-13B

MW-11-14&15 Core

MW-11-15

MW-11-16A

Appendix E

MW-11-16B

MW-11-17 Core

MW-11-17&18 Core

MW-11-17

MW-11-18 Core

MW-11-18

Appendix E

MW-11-19

MW-11-20 Core

MW-11-20&21 Core

MW-11-20

MW-11-21 Core

MW-11-21

Appendix E

MW-11-22

MW-11-23 Core

MW-11-23

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, Michigan 48150
TEL: 734.422.8000
Website: www.rtilab.com

Friday, January 13, 2012

Pam Horner

USACE- Detroit District

Environmental Analysis Branch
477 Michigan Ave.

Detroit, Michigan 48226

TEL: (313) 226-6748

FAX:

RE: Sediment Sampling Milwaukee

Work Order No: 1108A20

Dear Pam Horner:

RTI Laboratories received 47 sample(s) on 8/26/2011 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Charles O`Bryan

Director, Quality Management

RTI Laboratories - Workorder Sample Summary

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1108A20-001	MW-11-01		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Sediment
1108A20-001	MW-11-01		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Sediment
1108A20-001	MW-11-01		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Sediment
1108A20-001	MW-11-01		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Sediment
1108A20-002	MW-11-02		8/24/2011 1:03 PM	8/26/2011 8:00 PM	Sediment
1108A20-002	MW-11-02		8/24/2011 1:03 PM	8/26/2011 8:00 PM	Sediment
1108A20-002	MW-11-02		8/24/2011 1:03 PM	8/26/2011 8:00 PM	Sediment
1108A20-002	MW-11-02		8/24/2011 1:03 PM	8/26/2011 8:00 PM	Sediment
1108A20-003	MW-11-03		8/24/2011 2:14 PM	8/26/2011 8:00 PM	Sediment
1108A20-003	MW-11-03		8/24/2011 2:14 PM	8/26/2011 8:00 PM	Sediment
1108A20-003	MW-11-03		8/24/2011 2:14 PM	8/26/2011 8:00 PM	Sediment
1108A20-003	MW-11-03		8/24/2011 2:14 PM	8/26/2011 8:00 PM	Sediment
1108A20-004	MW-11-04		8/24/2011 11:08 AM	8/26/2011 8:00 PM	Sediment
1108A20-004	MW-11-04		8/24/2011 11:08 AM	8/26/2011 8:00 PM	Sediment
1108A20-004	MW-11-04		8/24/2011 11:08 AM	8/26/2011 8:00 PM	Sediment
1108A20-004	MW-11-04		8/24/2011 11:08 AM	8/26/2011 8:00 PM	Sediment
1108A20-005	MW-11-05		8/24/2011 10:05 AM	8/26/2011 8:00 PM	Sediment
1108A20-005	MW-11-05		8/24/2011 10:05 AM	8/26/2011 8:00 PM	Sediment
1108A20-005	MW-11-05		8/24/2011 10:05 AM	8/26/2011 8:00 PM	Sediment
1108A20-005	MW-11-05		8/24/2011 10:05 AM	8/26/2011 8:00 PM	Sediment
1108A20-006	MW-11-06		8/24/2011 3:35 PM	8/26/2011 8:00 PM	Sediment
1108A20-006	MW-11-06		8/24/2011 3:35 PM	8/26/2011 8:00 PM	Sediment
1108A20-006	MW-11-06		8/24/2011 3:35 PM	8/26/2011 8:00 PM	Sediment
1108A20-006	MW-11-06		8/24/2011 3:35 PM	8/26/2011 8:00 PM	Sediment
1108A20-007	MW-11-07		8/24/2011 4:45 PM	8/26/2011 8:00 PM	Sediment
1108A20-007	MW-11-07		8/24/2011 4:45 PM	8/26/2011 8:00 PM	Sediment
1108A20-007	MW-11-07		8/24/2011 4:45 PM	8/26/2011 8:00 PM	Sediment
1108A20-007	MW-11-07		8/24/2011 4:45 PM	8/26/2011 8:00 PM	Sediment
1108A20-008	MW-11-08		8/24/2011 5:56 PM	8/26/2011 8:00 PM	Sediment
1108A20-008	MW-11-08		8/24/2011 5:56 PM	8/26/2011 8:00 PM	Sediment
1108A20-008	MW-11-08		8/24/2011 5:56 PM	8/26/2011 8:00 PM	Sediment
1108A20-008	MW-11-08		8/24/2011 5:56 PM	8/26/2011 8:00 PM	Sediment
1108A20-009	MW-11-09		8/24/2011 7:12 PM	8/26/2011 8:00 PM	Sediment
1108A20-009	MW-11-09		8/24/2011 7:12 PM	8/26/2011 8:00 PM	Sediment
1108A20-009	MW-11-09		8/24/2011 7:12 PM	8/26/2011 8:00 PM	Sediment
1108A20-009	MW-11-09		8/24/2011 7:12 PM	8/26/2011 8:00 PM	Sediment
1108A20-010	MW-11-10		8/26/2011 11:50 AM	8/26/2011 8:00 PM	Sediment
1108A20-010	MW-11-10		8/26/2011 11:50 AM	8/26/2011 8:00 PM	Sediment
1108A20-010	MW-11-10		8/26/2011 11:50 AM	8/26/2011 8:00 PM	Sediment
1108A20-010	MW-11-10		8/26/2011 11:50 AM	8/26/2011 8:00 PM	Sediment
1108A20-011	MW-11-11		8/26/2011 11:15 AM	8/26/2011 8:00 PM	Sediment
1108A20-011	MW-11-11		8/26/2011 11:15 AM	8/26/2011 8:00 PM	Sediment
1108A20-011	MW-11-11		8/26/2011 11:15 AM	8/26/2011 8:00 PM	Sediment
1108A20-011	MW-11-11		8/26/2011 11:15 AM	8/26/2011 8:00 PM	Sediment
1108A20-012	MW-11-12		8/26/2011 10:30 AM	8/26/2011 8:00 PM	Sediment

RTI Laboratories - Workorder Sample Summary

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1108A20-012	MW-11-12		8/26/2011 10:30 AM	8/26/2011 8:00 PM	Sediment
1108A20-012	MW-11-12		8/26/2011 10:30 AM	8/26/2011 8:00 PM	Sediment
1108A20-012	MW-11-12		8/26/2011 10:30 AM	8/26/2011 8:00 PM	Sediment
1108A20-013	MW-11-13		8/26/2011 9:12 AM	8/26/2011 8:00 PM	Sediment
1108A20-013	MW-11-13		8/26/2011 9:12 AM	8/26/2011 8:00 PM	Sediment
1108A20-013	MW-11-13		8/26/2011 9:12 AM	8/26/2011 8:00 PM	Sediment
1108A20-013	MW-11-13		8/26/2011 9:12 AM	8/26/2011 8:00 PM	Sediment
1108A20-014	MW-11-14		8/25/2011 10:58 AM	8/26/2011 8:00 PM	Sediment
1108A20-014	MW-11-14		8/25/2011 10:58 AM	8/26/2011 8:00 PM	Sediment
1108A20-014	MW-11-14		8/25/2011 10:58 AM	8/26/2011 8:00 PM	Sediment
1108A20-014	MW-11-14		8/25/2011 10:58 AM	8/26/2011 8:00 PM	Sediment
1108A20-015	MW-11-15		8/25/2011 11:07 AM	8/26/2011 8:00 PM	Sediment
1108A20-015	MW-11-15		8/25/2011 11:07 AM	8/26/2011 8:00 PM	Sediment
1108A20-015	MW-11-15		8/25/2011 11:07 AM	8/26/2011 8:00 PM	Sediment
1108A20-015	MW-11-15		8/25/2011 11:07 AM	8/26/2011 8:00 PM	Sediment
1108A20-016	MW-11-16		8/25/2011 12:43 PM	8/26/2011 8:00 PM	Sediment
1108A20-016	MW-11-16		8/25/2011 12:43 PM	8/26/2011 8:00 PM	Sediment
1108A20-016	MW-11-16		8/25/2011 12:43 PM	8/26/2011 8:00 PM	Sediment
1108A20-016	MW-11-16		8/25/2011 12:43 PM	8/26/2011 8:00 PM	Sediment
1108A20-017	MW-11-17		8/25/2011 2:23 PM	8/26/2011 8:00 PM	Sediment
1108A20-017	MW-11-17		8/25/2011 2:23 PM	8/26/2011 8:00 PM	Sediment
1108A20-017	MW-11-17		8/25/2011 2:23 PM	8/26/2011 8:00 PM	Sediment
1108A20-017	MW-11-17		8/25/2011 2:23 PM	8/26/2011 8:00 PM	Sediment
1108A20-018	MW-11-18		8/25/2011 2:28 PM	8/26/2011 8:00 PM	Sediment
1108A20-018	MW-11-18		8/25/2011 2:28 PM	8/26/2011 8:00 PM	Sediment
1108A20-018	MW-11-18		8/25/2011 2:28 PM	8/26/2011 8:00 PM	Sediment
1108A20-018	MW-11-18		8/25/2011 2:28 PM	8/26/2011 8:00 PM	Sediment
1108A20-019	MW-11-19		8/25/2011 3:41 PM	8/26/2011 8:00 PM	Sediment
1108A20-019	MW-11-19		8/25/2011 3:41 PM	8/26/2011 8:00 PM	Sediment
1108A20-019	MW-11-19		8/25/2011 3:41 PM	8/26/2011 8:00 PM	Sediment
1108A20-019	MW-11-19		8/25/2011 3:41 PM	8/26/2011 8:00 PM	Sediment
1108A20-020	MW-11-20		8/25/2011 6:36 PM	8/26/2011 8:00 PM	Sediment
1108A20-020	MW-11-20		8/25/2011 6:36 PM	8/26/2011 8:00 PM	Sediment
1108A20-020	MW-11-20		8/25/2011 6:36 PM	8/26/2011 8:00 PM	Sediment
1108A20-020	MW-11-20		8/25/2011 6:36 PM	8/26/2011 8:00 PM	Sediment
1108A20-021	MW-11-21		8/25/2011 6:40 PM	8/26/2011 8:00 PM	Sediment
1108A20-021	MW-11-21		8/25/2011 6:40 PM	8/26/2011 8:00 PM	Sediment
1108A20-021	MW-11-21		8/25/2011 6:40 PM	8/26/2011 8:00 PM	Sediment
1108A20-021	MW-11-21		8/25/2011 6:40 PM	8/26/2011 8:00 PM	Sediment
1108A20-022	MW-11-22		8/25/2011 5:10 PM	8/26/2011 8:00 PM	Sediment
1108A20-022	MW-11-22		8/25/2011 5:10 PM	8/26/2011 8:00 PM	Sediment
1108A20-022	MW-11-22		8/25/2011 5:10 PM	8/26/2011 8:00 PM	Sediment
1108A20-022	MW-11-22		8/25/2011 5:10 PM	8/26/2011 8:00 PM	Sediment
1108A20-023	MW-11-23		8/25/2011 5:39 PM	8/26/2011 8:00 PM	Sediment
1108A20-023	MW-11-23		8/25/2011 5:39 PM	8/26/2011 8:00 PM	Sediment

RTI Laboratories - Workorder Sample Summary

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1108A20-023	MW-11-23		8/25/2011 5:39 PM	8/26/2011 8:00 PM	Sediment
1108A20-023	MW-11-23		8/25/2011 5:39 PM	8/26/2011 8:00 PM	Sediment
1108A20-024	MW-11-01		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-024	MW-11-01		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-024	MW-11-01		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-024	MW-11-01		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-024	MW-11-01		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-024	MW-11-01		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-025	MW-11-02		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-025	MW-11-02		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-025	MW-11-02		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-025	MW-11-02		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-025	MW-11-02		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-025	MW-11-02		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-026	MW-11-03		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-026	MW-11-03		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-026	MW-11-03		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-026	MW-11-03		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-026	MW-11-03		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-026	MW-11-03		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-027	MW-11-04		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-027	MW-11-04		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-027	MW-11-04		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-027	MW-11-04		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-027	MW-11-04		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-027	MW-11-04		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-028	MW-11-05		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-028	MW-11-05		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-028	MW-11-05		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-028	MW-11-05		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-028	MW-11-05		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-028	MW-11-05		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-029	MW-11-06		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-029	MW-11-06		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-029	MW-11-06		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-029	MW-11-06		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-029	MW-11-06		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-029	MW-11-06		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-030	MW-11-07		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-030	MW-11-07		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-030	MW-11-07		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-030	MW-11-07		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-030	MW-11-07		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-031	MW-11-08		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate

RTI Laboratories - Workorder Sample Summary

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1108A20-031	MW-11-08		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-031	MW-11-08		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-031	MW-11-08		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-031	MW-11-08		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-031	MW-11-08		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-032	MW-11-09		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-032	MW-11-09		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-032	MW-11-09		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-032	MW-11-09		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-032	MW-11-09		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-032	MW-11-09		8/24/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-033	MW-11-10		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-033	MW-11-10		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-033	MW-11-10		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-033	MW-11-10		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-033	MW-11-10		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-033	MW-11-10		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-034	MW-11-11		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-034	MW-11-11		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-034	MW-11-11		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-034	MW-11-11		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-034	MW-11-11		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-034	MW-11-11		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-035	MW-11-12		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-035	MW-11-12		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-035	MW-11-12		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-035	MW-11-12		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-035	MW-11-12		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-035	MW-11-12		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-036	MW-11-13		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-036	MW-11-13		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-036	MW-11-13		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-036	MW-11-13		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-036	MW-11-13		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-036	MW-11-13		8/26/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-037	MW-11-14		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-037	MW-11-14		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-037	MW-11-14		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-037	MW-11-14		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-037	MW-11-14		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-037	MW-11-14		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-038	MW-11-15		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-038	MW-11-15		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-038	MW-11-15		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-038	MW-11-15		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate

RTI Laboratories - Workorder Sample Summary

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1108A20-038	MW-11-15		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-038	MW-11-15		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-039	MW-11-16		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-039	MW-11-16		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-039	MW-11-16		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-039	MW-11-16		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-039	MW-11-16		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-039	MW-11-16		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-040	MW-11-17		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-040	MW-11-17		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-040	MW-11-17		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-040	MW-11-17		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-040	MW-11-17		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-040	MW-11-17		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-041	MW-11-18		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-041	MW-11-18		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-041	MW-11-18		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-041	MW-11-18		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-041	MW-11-18		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-041	MW-11-18		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-042	MW-11-19		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-042	MW-11-19		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-042	MW-11-19		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-042	MW-11-19		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-042	MW-11-19		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-042	MW-11-19		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-043	MW-11-20		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-043	MW-11-20		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-043	MW-11-20		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-043	MW-11-20		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-043	MW-11-20		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-043	MW-11-20		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-044	MW-11-21		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-044	MW-11-21		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-044	MW-11-21		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-044	MW-11-21		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-044	MW-11-21		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-044	MW-11-21		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-045	MW-11-22		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-045	MW-11-22		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-045	MW-11-22		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-045	MW-11-22		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-045	MW-11-22		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-046	MW-11-23		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate

RTI Laboratories - Workorder Sample Summary

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1108A20-046	MW-11-23		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-046	MW-11-23		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-046	MW-11-23		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-046	MW-11-23		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-046	MW-11-23		8/25/2011 12:00 AM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate
1108A20-047	MW-11-01 (background)		8/24/2011 12:11 PM	8/26/2011 8:00 PM	Elutriate

RTI Laboratories - Case Narrative

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

This report in its entirety consists of the documents listed below. All documents contain the RTI Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
2. A Cover Letter that immediately precedes the Paginated Report.
3. Paginated copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Prep Comments for SW_3550BNA, Sample 1108A20-007A, 1108A20-008A, and 1108A20-010A: Oily

Prep Comments for SW_3510P, Sample 1108A20-043D, 1108A20-044D, 1108A20-045D, and 1108A20-046D: Prep hold time was exceeded by 2day(s)

Prep Comments for SW_3510BNA, Sample 1108A20-044C, 1108A20-045C, and 1108A20-046C: Prep hold time was exceeded by 2 day(s)

Prep Comments for SW_3510BNA, Sample 1108A20-047D: Prep hold time was exceeded by 5 day(s)

Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-001A, 1108A20-002A, 1108A20-003A, 1108A20-004A, 1108A20-005A, 1108A20-006A, 1108A20-007A, 1108A20-008A, 1108A20-009A, 1108A20-010A, 1108A20-011A; Batch ID R43177: Samples run at a dilutions due to matrix affects causing excessive degradation in check standards. PCB's in samples further add to need for dilutions. Reported pesticides are due to pressence of PCB in samples evident by high RPD's.

Analytical Comments for METHOD SW_8270S, SAMPLE MB-23537, Batch ID 23537: Likely injection of spiked sample

Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-001A: Second column RPD >40% for DDD.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-002A: Second column RPD >40% for DDD.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-004A: Second column RPD >40% for DDE.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-005A: Second column RPD >40% for DDD.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-006A: Second column RPD >40% for DDD.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-009A: Second column RPD >40% for DDD, Endrin aldehyde and Endosulfan sulfate.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-010A: Second column RPD >40% for DDD, DDE and Endrin.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-011A: Second column RPD >40% for alpha-Chlordane and Endosulfan sulfate.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-012A: Second column RPD >40% for alpha-Chlordane and Endrin aldehyde.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-013A: Second column RPD >40% for alpha-Chlordane.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-014A: Second column RPD >40% for DDD.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-015A: Second column RPD >40% for DDD.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-016A: Second column RPD >40% for alpha-Chlordane.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-017A: Second column RPD >40% for DDD, gamma-Chlordane and Endosulfan sulfate.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-018A: Second column RPD >40% for DDE.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-019A: Second column RPD >40% for DDD, DDE, gamma-Chlordane and Dieldrin.
Analytical Comments for METHOD SW_8081A, SAMPLE 1108A20-001A: Second column RPD >40% for DDD, DDE and Dieldrin.

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:11:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-001	**Matrix:**	Sediment
Client Sample ID:	MW-11-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,400	180		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	3.7	6.0	J	µg/Kg-dry	2	9/14/2011 5:32 AM
4,4'-DDE	6.6	2.9		µg/Kg-dry	2	9/14/2011 5:32 AM
4,4'-DDT	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Aldrin	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
alpha-BHC	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
alpha-Chlordane	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
beta-BHC	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Chlordane (Technical)	ND	59	U	µg/Kg-dry	2	9/14/2011 5:32 AM
delta-BHC	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Dieldrin	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Endosulfan I	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Endosulfan II	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Endosulfan sulfate	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Endrin	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Endrin aldehyde	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Endrin ketone	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
gamma-BHC	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
gamma-Chlordane	5.3	2.9		µg/Kg-dry	2	9/14/2011 5:32 AM
Heptachlor	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Heptachlor epoxide	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Methoxychlor	ND	2.9	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Toxaphene	ND	59	U	µg/Kg-dry	2	9/14/2011 5:32 AM
Surr: Decachlorobiphenyl	108	55-130		%REC	2	9/14/2011 5:32 AM
Surr: Tetrachloro-m-xylene	95.5	70-125		%REC	2	9/14/2011 5:32 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	58	U	µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1221	ND	58	U	µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1232	ND	58	U	µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1242	280	58		µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1248	ND	58	U	µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1254	180	58		µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1260	75	58		µg/Kg-dry	1	9/13/2011 12:20 PM
Aroclor 1262	ND	58	U	µg/Kg-dry	1	9/13/2011 12:20 PM
Total PCBs	540	58		µg/Kg-dry	1	9/13/2011 12:20 PM
Surr: Decachlorobiphenyl	86.9	60-125		%REC	1	9/13/2011 12:20 PM
Surr: Tetrachloro-m-xylene	108	60-125		%REC	1	9/13/2011 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:11:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-001	**Matrix:**	Sediment
Client Sample ID:	MW-11-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.7			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.41				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	9,500	1,700		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	0.71	1.8	J	mg/Kg-dry	1	9/7/2011 1:44 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	4,300	250		µg/Kg-dry	20	9/6/2011 1:57 PM
Barium	73,000	1,300		µg/Kg-dry	20	9/6/2011 1:57 PM
Cadmium	2,100	510		µg/Kg-dry	20	9/6/2011 1:57 PM
Chromium	46,000	640		µg/Kg-dry	20	9/6/2011 1:57 PM
Copper	39,000	510		µg/Kg-dry	20	9/6/2011 1:57 PM
Iron	12,000,000	510,000		µg/Kg-dry	400	9/6/2011 4:18 PM
Lead	75,000	250		µg/Kg-dry	20	9/6/2011 1:57 PM
Manganese	460,000	51,000		µg/Kg-dry	400	9/6/2011 4:18 PM
Nickel	14,000	2,500		µg/Kg-dry	20	9/6/2011 1:57 PM
Selenium	740	1,300	J	µg/Kg-dry	20	9/6/2011 1:57 PM
Zinc	160,000	2,500		µg/Kg-dry	20	9/6/2011 1:57 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	490	60		µg/Kg-dry	10	9/2/2011 6:40 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	180	50		µg/Kg-dry	1	9/13/2011 2:33 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	7,000	U	µg/Kg-dry	5	9/23/2011 5:24 PM
Acenaphthene	ND	7,000	U	µg/Kg-dry	5	9/23/2011 5:24 PM
Acenaphthylene	ND	7,000	U	µg/Kg-dry	5	9/23/2011 5:24 PM
Anthracene	630	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Benzo(a)anthracene	2,300	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Benzo(a)pyrene	2,100	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Benzo(b)fluoranthene	3,200	7,000	Jm	µg/Kg-dry	5	9/23/2011 5:24 PM
Benzo(g,h,i)perylene	1,500	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:11:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-001	**Matrix:**	Sediment
Client Sample ID:	MW-11-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	920	7,000	Jm	µg/Kg-dry	5	9/23/2011 5:24 PM
Chrysene	2,400	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Dibenzo (a,h) anthracene	ND	7,000	U	µg/Kg-dry	5	9/23/2011 5:24 PM
Fluoranthene	5,000	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Fluorene	ND	7,000	U	µg/Kg-dry	5	9/23/2011 5:24 PM
Indeno(1,2,3-cd)pyrene	1,300	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Naphthalene	ND	7,000	U	µg/Kg-dry	5	9/23/2011 5:24 PM
Phenanthrene	2,200	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Pyrene	4,000	7,000	J	µg/Kg-dry	5	9/23/2011 5:24 PM
Surr: 2-Fluorobiphenyl	72.0	45-105		%REC	5	9/23/2011 5:24 PM
Surr: Nitrobenzene-d5	71.0	35-100		%REC	5	9/23/2011 5:24 PM
Surr: Terphenyl-d14	83.0	30-125		%REC	5	9/23/2011 5:24 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	57	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	43	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	150	5.3	B	mg/Kg-dry	1	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	2,000	300		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	70,000	7,900		mg/Kg-dry	225.225 2252	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	9.9	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	62,000	9,000		mg/Kg	1	9/3/2011 11:47 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 1:03:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-002	**Matrix:**	Sediment
Client Sample ID:	MW-11-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	900	180		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	ND	6.2	U	µg/Kg-dry	2	9/14/2011 6:18 AM
4,4'-DDE	4.9	3.0		µg/Kg-dry	2	9/14/2011 6:18 AM
4,4'-DDT	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Aldrin	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
alpha-BHC	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
alpha-Chlordane	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
beta-BHC	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Chlordane (Technical)	ND	61	U	µg/Kg-dry	2	9/14/2011 6:18 AM
delta-BHC	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Dieldrin	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Endosulfan I	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Endosulfan II	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Endosulfan sulfate	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Endrin	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Endrin aldehyde	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Endrin ketone	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
gamma-BHC	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
gamma-Chlordane	4.0	3.0		µg/Kg-dry	2	9/14/2011 6:18 AM
Heptachlor	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Heptachlor epoxide	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Methoxychlor	ND	3.0	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Toxaphene	ND	61	U	µg/Kg-dry	2	9/14/2011 6:18 AM
Surr: Decachlorobiphenyl	115	55-130		%REC	2	9/14/2011 6:18 AM
Surr: Tetrachloro-m-xylene	98.9	70-125		%REC	2	9/14/2011 6:18 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	60	U	µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1221	ND	60	U	µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1232	ND	60	U	µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1242	180	60		µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1248	ND	60	U	µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1254	120	60		µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1260	31	60	J	µg/Kg-dry	1	9/13/2011 12:49 PM
Aroclor 1262	ND	60	U	µg/Kg-dry	1	9/13/2011 12:49 PM
Total PCBs	330	60		µg/Kg-dry	1	9/13/2011 12:49 PM
Surr: Decachlorobiphenyl	85.3	60-125		%REC	1	9/13/2011 12:49 PM
Surr: Tetrachloro-m-xylene	113	60-125		%REC	1	9/13/2011 12:49 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 1:03:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-002	**Matrix:**	Sediment
Client Sample ID:	MW-11-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	12.0			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.43				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	15,000	1,800		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	0.78	1.8	J	mg/Kg-dry	1	9/7/2011 1:44 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	4,900	230		µg/Kg-dry	20	9/6/2011 1:59 PM
Barium	96,000	1,100		µg/Kg-dry	20	9/6/2011 1:59 PM
Cadmium	2,800	450		µg/Kg-dry	20	9/6/2011 1:59 PM
Chromium	120,000	570		µg/Kg-dry	20	9/6/2011 1:59 PM
Copper	58,000	450		µg/Kg-dry	20	9/6/2011 1:59 PM
Iron	17,000,000	450,000		µg/Kg-dry	400	9/6/2011 4:19 PM
Lead	95,000	230		µg/Kg-dry	20	9/6/2011 1:59 PM
Manganese	570,000	45,000		µg/Kg-dry	400	9/6/2011 4:19 PM
Nickel	19,000	2,300		µg/Kg-dry	20	9/6/2011 1:59 PM
Selenium	750	1,100	J	µg/Kg-dry	20	9/6/2011 1:59 PM
Zinc	230,000	2,300		µg/Kg-dry	20	9/6/2011 1:59 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	1,400	69		µg/Kg-dry	10	9/2/2011 6:38 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	250	59		µg/Kg-dry	1	9/13/2011 2:54 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	67	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Acenaphthene	230	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Acenaphthylene	160	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Anthracene	570	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Benzo(a)anthracene	2,200	1,500		µg/Kg-dry	5	9/23/2011 8:37 PM
Benzo(a)pyrene	2,100	1,500		µg/Kg-dry	5	9/23/2011 8:37 PM
Benzo(b)fluoranthene	3,100	1,500	m	µg/Kg-dry	5	9/23/2011 8:37 PM
Benzo(g,h,i)perylene	1,000	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 1:03:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-002	**Matrix:**	Sediment
Client Sample ID:	MW-11-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,200	1,500	Jm	µg/Kg-dry	5	9/23/2011 8:37 PM
Chrysene	2,300	1,500		µg/Kg-dry	5	9/23/2011 8:37 PM
Dibenzo (a,h) anthracene	270	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Fluoranthene	4,700	1,500		µg/Kg-dry	5	9/23/2011 8:37 PM
Fluorene	240	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Indeno(1,2,3-cd)pyrene	920	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Naphthalene	82	1,500	J	µg/Kg-dry	5	9/23/2011 8:37 PM
Phenanthrene	2,200	1,500		µg/Kg-dry	5	9/23/2011 8:37 PM
Pyrene	4,100	1,500		µg/Kg-dry	5	9/23/2011 8:37 PM
Surr: 2-Fluorobiphenyl	66.0	45-105		%REC	5	9/23/2011 8:37 PM
Surr: Nitrobenzene-d5	64.0	35-100		%REC	5	9/23/2011 8:37 PM
Surr: Terphenyl-d14	83.6	30-125		%REC	5	9/23/2011 8:37 PM
Physical Kit		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids and/or Moisture						
Percent Solids	55	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	45	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit		**Method: E350.1**				**Analyst: JE**
Ammonia						
Nitrogen, Ammonia	420	12		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3,100	340		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand, COD						
Chemical Oxygen Demand	110,000	7,800		mg/Kg-dry	212.765 9574	9/3/2011 11:00 AM
Organic Indicators Kit		**Method: A2540G**				**Analyst: NK**
Total, Fixed and Volatile Solids in Solids						
Total Volatile Solids	6.9	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit		**Method: SW9060**				**Analyst: NK**
Total Organic Carbon						
Organic Carbon, Total	77,000	7,600		mg/Kg	1	9/3/2011 12:50 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 2:14:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-003	**Matrix:**	Sediment
Client Sample ID:	MW-11-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	1,300	200		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	2.4	6.6	J	µg/Kg-dry	2	9/14/2011 7:03 AM
4,4'-DDE	5.5	3.2		µg/Kg-dry	2	9/14/2011 7:03 AM
4,4'-DDT	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Aldrin	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
alpha-BHC	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
alpha-Chlordane	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
beta-BHC	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Chlordane (Technical)	ND	65	U	µg/Kg-dry	2	9/14/2011 7:03 AM
delta-BHC	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Dieldrin	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Endosulfan I	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Endosulfan II	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Endosulfan sulfate	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Endrin	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Endrin aldehyde	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Endrin ketone	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
gamma-BHC	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
gamma-Chlordane	3.8	3.2		µg/Kg-dry	2	9/14/2011 7:03 AM
Heptachlor	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Heptachlor epoxide	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Methoxychlor	ND	3.2	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Toxaphene	ND	65	U	µg/Kg-dry	2	9/14/2011 7:03 AM
Surr: Decachlorobiphenyl	123	55-130		%REC	2	9/14/2011 7:03 AM
Surr: Tetrachloro-m-xylene	112	70-125		%REC	2	9/14/2011 7:03 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	64	U	µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1221	ND	64	U	µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1232	ND	64	U	µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1242	190	64		µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1248	ND	64	U	µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1254	130	64		µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1260	38	64	J	µg/Kg-dry	1	9/13/2011 1:18 PM
Aroclor 1262	ND	64	U	µg/Kg-dry	1	9/13/2011 1:18 PM
Total PCBs	360	64		µg/Kg-dry	1	9/13/2011 1:18 PM
Surr: Decachlorobiphenyl	108	60-125		%REC	1	9/13/2011 1:18 PM
Surr: Tetrachloro-m-xylene	133	60-125	S	%REC	1	9/13/2011 1:18 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 2:14:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-003	**Matrix:**	Sediment
Client Sample ID:	MW-11-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.6			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.39				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	820	190		mg/Kg-dry	50	8/31/2011 4:30 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	1.2	2.0	J	mg/Kg-dry	1	9/7/2011 1:44 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	4,800	250		µg/Kg-dry	20	9/6/2011 2:00 PM
Barium	99,000	1,300		µg/Kg-dry	20	9/6/2011 2:00 PM
Cadmium	2,300	500		µg/Kg-dry	20	9/6/2011 2:00 PM
Chromium	84,000	630		µg/Kg-dry	20	9/6/2011 2:00 PM
Copper	55,000	500		µg/Kg-dry	20	9/6/2011 2:00 PM
Iron	17,000,000	500,000		µg/Kg-dry	400	9/6/2011 4:20 PM
Lead	87,000	250		µg/Kg-dry	20	9/6/2011 2:00 PM
Manganese	590,000	50,000		µg/Kg-dry	400	9/6/2011 4:20 PM
Nickel	18,000	2,500		µg/Kg-dry	20	9/6/2011 2:00 PM
Selenium	870	1,300	J	µg/Kg-dry	20	9/6/2011 2:00 PM
Zinc	220,000	2,500		µg/Kg-dry	20	9/6/2011 2:00 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	1,300	65		µg/Kg-dry	10	9/2/2011 6:40 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	210	61		µg/Kg-dry	1	9/13/2011 2:56 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 5:11 PM
Acenaphthene	91	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Acenaphthylene	84	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Anthracene	310	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Benzo(a)anthracene	1,200	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Benzo(a)pyrene	1,300	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Benzo(b)fluoranthene	1,800	1,600	m	µg/Kg-dry	5	9/23/2011 5:11 PM
Benzo(g,h,i)perylene	630	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 2:14:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-003	**Matrix:**	Sediment
Client Sample ID:	MW-11-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	810	1,600	Jm	µg/Kg-dry	5	9/23/2011 5:11 PM
Chrysene	1,500	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Dibenzo (a,h) anthracene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 5:11 PM
Fluoranthene	2,700	1,600		µg/Kg-dry	5	9/23/2011 5:11 PM
Fluorene	110	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Indeno(1,2,3-cd)pyrene	560	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Naphthalene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 5:11 PM
Phenanthrene	1,300	1,600	J	µg/Kg-dry	5	9/23/2011 5:11 PM
Pyrene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 5:11 PM
Surr: 2-Fluorobiphenyl	56.4	45-105		%REC	5	9/23/2011 5:11 PM
Surr: Nitrobenzene-d5	52.4	35-100		%REC	5	9/23/2011 5:11 PM
Surr: Terphenyl-d14	79.6	30-125		%REC	5	9/23/2011 5:11 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	51	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	49	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	370	12		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	3,300	370		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	150,000	9,200		mg/Kg-dry	235.8490566	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	8.1	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	39,000	7,000		mg/Kg	1	9/3/2011 1:03 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 11:08:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-004	**Matrix:**	Sediment
Client Sample ID:	MW-11-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit	**Method: 9071B**			**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	940	210		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides	**Method: SW8081A**			**SW3550C**		**Analyst: MB**
4,4'-DDD	ND	7.0	U	µg/Kg-dry	2	9/14/2011 7:49 AM
4,4'-DDE	1.8	3.4	J	µg/Kg-dry	2	9/14/2011 7:49 AM
4,4'-DDT	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Aldrin	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
alpha-BHC	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
alpha-Chlordane	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
beta-BHC	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Chlordane (Technical)	ND	69	U	µg/Kg-dry	2	9/14/2011 7:49 AM
delta-BHC	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Dieldrin	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Endosulfan I	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Endosulfan II	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Endosulfan sulfate	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Endrin	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Endrin aldehyde	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Endrin ketone	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
gamma-BHC	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
gamma-Chlordane	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Heptachlor	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Heptachlor epoxide	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Methoxychlor	ND	3.4	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Toxaphene	ND	69	U	µg/Kg-dry	2	9/14/2011 7:49 AM
Surr: Decachlorobiphenyl	119	55-130		%REC	2	9/14/2011 7:49 AM
Surr: Tetrachloro-m-xylene	109	70-125		%REC	2	9/14/2011 7:49 AM
Polychlorinated Biphenyls	**Method: SW8082**			**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	68	U	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1221	ND	68	U	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1232	ND	68	U	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1242	31	68	J	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1248	ND	68	U	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1254	22	68	J	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1260	10	68	J	µg/Kg-dry	1	9/13/2011 1:47 PM
Aroclor 1262	ND	68	U	µg/Kg-dry	1	9/13/2011 1:47 PM
Total PCBs	64	68		µg/Kg-dry	1	9/13/2011 1:47 PM
Surr: Decachlorobiphenyl	134	60-125	S	%REC	1	9/13/2011 1:47 PM
Surr: Tetrachloro-m-xylene	124	60-125		%REC	1	9/13/2011 1:47 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 11:08:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-004	**Matrix:**	Sediment
Client Sample ID:	MW-11-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.3			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.36				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	760	200		mg/Kg-dry	50	8/31/2011 4:30 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	15	2.1		mg/Kg-dry	1	9/7/2011 1:44 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	4,300	320		µg/Kg-dry	20	9/6/2011 2:02 PM
Barium	86,000	1,600		µg/Kg-dry	20	9/6/2011 2:02 PM
Cadmium	2,200	650		µg/Kg-dry	20	9/6/2011 2:02 PM
Chromium	92,000	810		µg/Kg-dry	20	9/6/2011 2:02 PM
Copper	41,000	650		µg/Kg-dry	20	9/6/2011 2:02 PM
Iron	17,000,000	650,000		µg/Kg-dry	400	9/6/2011 4:20 PM
Lead	55,000	320		µg/Kg-dry	20	9/6/2011 2:02 PM
Manganese	540,000	65,000		µg/Kg-dry	400	9/6/2011 4:20 PM
Nickel	18,000	3,200		µg/Kg-dry	20	9/6/2011 2:02 PM
Selenium	790	1,600	J	µg/Kg-dry	20	9/6/2011 2:02 PM
Zinc	180,000	3,200		µg/Kg-dry	20	9/6/2011 2:02 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	960	76		µg/Kg-dry	10	9/2/2011 6:41 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	140	60		µg/Kg-dry	1	9/13/2011 2:57 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 7:49 PM
Acenaphthene	85	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Acenaphthylene	85	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Anthracene	270	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Benzo(a)anthracene	990	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Benzo(a)pyrene	1,100	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Benzo(b)fluoranthene	1,700	1,600	m	µg/Kg-dry	5	9/23/2011 7:49 PM
Benzo(g,h,i)perylene	650	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 11:08:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-004	**Matrix:**	Sediment
Client Sample ID:	MW-11-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	800	1,600	Jm	µg/Kg-dry	5	9/23/2011 7:49 PM
Chrysene	1,300	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Dibenzo (a,h) anthracene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 7:49 PM
Fluoranthene	2,300	1,600		µg/Kg-dry	5	9/23/2011 7:49 PM
Fluorene	99	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Indeno(1,2,3-cd)pyrene	560	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Naphthalene	ND	1,600	U	µg/Kg-dry	5	9/23/2011 7:49 PM
Phenanthrene	840	1,600	J	µg/Kg-dry	5	9/23/2011 7:49 PM
Pyrene	1,900	1,600		µg/Kg-dry	5	9/23/2011 7:49 PM
Surr: 2-Fluorobiphenyl	73.0	45-105		%REC	5	9/23/2011 7:49 PM
Surr: Nitrobenzene-d5	64.8	35-100		%REC	5	9/23/2011 7:49 PM
Surr: Terphenyl-d14	101	30-125		%REC	5	9/23/2011 7:49 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	49	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	51	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	190	6.1	B	mg/Kg-dry	1	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	2,300	360		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	91,000	6,900		mg/Kg-dry	167.224 0803	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	6.1	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	120,000	8,400		mg/Kg	1	9/3/2011 1:18 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 10:05:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-005	**Matrix:**	Sediment
Client Sample ID:	MW-11-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit	**Method: 9071B**			**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	690	230		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides	**Method: SW8081A**			**SW3550C**		**Analyst: MB**
4,4'-DDD	ND	7.7	U	µg/Kg-dry	2	9/14/2011 8:35 AM
4,4'-DDE	4.1	3.8		µg/Kg-dry	2	9/14/2011 8:35 AM
4,4'-DDT	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Aldrin	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
alpha-BHC	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
alpha-Chlordane	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
beta-BHC	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Chlordane (Technical)	ND	76	U	µg/Kg-dry	2	9/14/2011 8:35 AM
delta-BHC	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Dieldrin	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Endosulfan I	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Endosulfan II	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Endosulfan sulfate	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Endrin	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Endrin aldehyde	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Endrin ketone	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
gamma-BHC	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
gamma-Chlordane	3.6	3.8	J	µg/Kg-dry	2	9/14/2011 8:35 AM
Heptachlor	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Heptachlor epoxide	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Methoxychlor	ND	3.8	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Toxaphene	ND	76	U	µg/Kg-dry	2	9/14/2011 8:35 AM
Surr: Decachlorobiphenyl	89.8	55-130		%REC	2	9/14/2011 8:35 AM
Surr: Tetrachloro-m-xylene	77.1	70-125		%REC	2	9/14/2011 8:35 AM
Polychlorinated Biphenyls	**Method: SW8082**			**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	75	U	µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1221	ND	75	U	µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1232	ND	75	U	µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1242	110	75		µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1248	ND	75	U	µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1254	100	75		µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1260	42	75	J	µg/Kg-dry	1	9/13/2011 2:17 PM
Aroclor 1262	ND	75	U	µg/Kg-dry	1	9/13/2011 2:17 PM
Total PCBs	260	75		µg/Kg-dry	1	9/13/2011 2:17 PM
Surr: Decachlorobiphenyl	75.5	60-125		%REC	1	9/13/2011 2:17 PM
Surr: Tetrachloro-m-xylene	86.2	60-125		%REC	1	9/13/2011 2:17 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 10:05:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-005	**Matrix:**	Sediment
Client Sample ID:	MW-11-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.0			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.31				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	910	220		mg/Kg-dry	50	8/31/2011 4:30 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	15	2.3		mg/Kg-dry	1	9/7/2011 1:44 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	5,000	320		µg/Kg-dry	20	9/6/2011 2:03 PM
Barium	89,000	1,600		µg/Kg-dry	20	9/6/2011 2:03 PM
Cadmium	2,400	650		µg/Kg-dry	20	9/6/2011 2:03 PM
Chromium	110,000	810		µg/Kg-dry	20	9/6/2011 2:03 PM
Copper	43,000	650		µg/Kg-dry	20	9/6/2011 2:03 PM
Iron	20,000,000	650,000		µg/Kg-dry	400	9/6/2011 4:21 PM
Lead	60,000	320		µg/Kg-dry	20	9/6/2011 2:03 PM
Manganese	610,000	65,000		µg/Kg-dry	400	9/6/2011 4:21 PM
Nickel	20,000	3,200		µg/Kg-dry	20	9/6/2011 2:03 PM
Selenium	820	1,600	J	µg/Kg-dry	20	9/6/2011 2:03 PM
Zinc	200,000	3,200		µg/Kg-dry	20	9/6/2011 2:03 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	960	69		µg/Kg-dry	10	9/2/2011 6:45 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	190	63		µg/Kg-dry	1	9/13/2011 2:59 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 8:13 PM
Acenaphthene	80	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Acenaphthylene	98	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Anthracene	280	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Benzo(a)anthracene	1,000	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Benzo(a)pyrene	1,100	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Benzo(b)fluoranthene	1,700	1,800	Jm	µg/Kg-dry	5	9/23/2011 8:13 PM
Benzo(g,h,i)perylene	620	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 10:05:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-005	**Matrix:**	Sediment
Client Sample ID:	MW-11-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	660	1,800	Jm	µg/Kg-dry	5	9/23/2011 8:13 PM
Chrysene	1,200	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Dibenzo (a,h) anthracene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 8:13 PM
Fluoranthene	2,300	1,800		µg/Kg-dry	5	9/23/2011 8:13 PM
Fluorene	100	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Indeno(1,2,3-cd)pyrene	570	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Naphthalene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 8:13 PM
Phenanthrene	890	1,800	J	µg/Kg-dry	5	9/23/2011 8:13 PM
Pyrene	2,000	1,800		µg/Kg-dry	5	9/23/2011 8:13 PM
Surr: 2-Fluorobiphenyl	81.6	45-105		%REC	5	9/23/2011 8:13 PM
Surr: Nitrobenzene-d5	74.2	35-100		%REC	5	9/23/2011 8:13 PM
Surr: Terphenyl-d14	136	30-125	S	%REC	5	9/23/2011 8:13 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	44	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	56	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	180	6.7	B	mg/Kg-dry	1	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	2,600	210		mg/Kg-dry	5	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	100,000	8,200		mg/Kg-dry	179.856 1151	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	6.2	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	67,000	9,200		mg/Kg	1	9/3/2011 1:47 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 3:35:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-006	**Matrix:**	Sediment
Client Sample ID:	MW-11-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,400	240		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	3.0	8.3	J	µg/Kg-dry	2	9/14/2011 9:21 AM
4,4'-DDE	6.8	4.0		µg/Kg-dry	2	9/14/2011 9:21 AM
4,4'-DDT	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Aldrin	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
alpha-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
alpha-Chlordane	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
beta-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Chlordane (Technical)	ND	81	U	µg/Kg-dry	2	9/14/2011 9:21 AM
delta-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Dieldrin	5.6	4.0		µg/Kg-dry	2	9/14/2011 9:21 AM
Endosulfan I	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Endosulfan II	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Endosulfan sulfate	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Endrin	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Endrin aldehyde	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Endrin ketone	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
gamma-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
gamma-Chlordane	4.7	4.0		µg/Kg-dry	2	9/14/2011 9:21 AM
Heptachlor	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Heptachlor epoxide	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Methoxychlor	ND	4.0	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Toxaphene	ND	81	U	µg/Kg-dry	2	9/14/2011 9:21 AM
Surr: Decachlorobiphenyl	114	55-130		%REC	2	9/14/2011 9:21 AM
Surr: Tetrachloro-m-xylene	102	70-125		%REC	2	9/14/2011 9:21 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	80	U	µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1221	ND	80	U	µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1232	ND	80	U	µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1242	180	80		µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1248	ND	80	U	µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1254	140	80		µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1260	52	80	J	µg/Kg-dry	1	9/13/2011 2:46 PM
Aroclor 1262	ND	80	U	µg/Kg-dry	1	9/13/2011 2:46 PM
Total PCBs	370	80		µg/Kg-dry	1	9/13/2011 2:46 PM
Surr: Decachlorobiphenyl	86.6	60-125		%REC	1	9/13/2011 2:46 PM
Surr: Tetrachloro-m-xylene	119	60-125		%REC	1	9/13/2011 2:46 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 3:35:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-006	**Matrix:**	Sediment
Client Sample ID:	MW-11-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	10.6			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.27				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	940	240		mg/Kg-dry	50	8/31/2011 4:30 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	4.8	2.4		mg/Kg-dry	1	9/7/2011 1:44 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	5,600	380		µg/Kg-dry	20	9/6/2011 2:12 PM
Barium	130,000	1,900		µg/Kg-dry	20	9/6/2011 2:12 PM
Cadmium	2,300	760		µg/Kg-dry	20	9/6/2011 2:12 PM
Chromium	74,000	950		µg/Kg-dry	20	9/6/2011 2:12 PM
Copper	67,000	760		µg/Kg-dry	20	9/6/2011 2:12 PM
Iron	19,000,000	760,000		µg/Kg-dry	400	9/6/2011 4:36 PM
Lead	97,000	380		µg/Kg-dry	20	9/6/2011 2:12 PM
Manganese	700,000	76,000		µg/Kg-dry	400	9/6/2011 4:36 PM
Nickel	22,000	3,800		µg/Kg-dry	20	9/6/2011 2:12 PM
Selenium	1,300	1,900	J	µg/Kg-dry	20	9/6/2011 2:12 PM
Zinc	290,000	3,800		µg/Kg-dry	20	9/6/2011 2:12 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	680	84		µg/Kg-dry	10	9/2/2011 6:46 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	260	85		µg/Kg-dry	1	9/13/2011 3:03 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	3,900	U	µg/Kg-dry	10	9/23/2011 7:00 PM
Acenaphthene	ND	3,900	U	µg/Kg-dry	10	9/23/2011 7:00 PM
Acenaphthylene	ND	3,900	U	µg/Kg-dry	10	9/23/2011 7:00 PM
Anthracene	410	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Benzo(a)anthracene	2,100	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Benzo(a)pyrene	2,300	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Benzo(b)fluoranthene	3,700	3,900	Jm	µg/Kg-dry	10	9/23/2011 7:00 PM
Benzo(g,h,i)perylene	1,500	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 3:35:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-006	**Matrix:**	Sediment
Client Sample ID:	MW-11-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,500	3,900	Jm	µg/Kg-dry	10	9/23/2011 7:00 PM
Chrysene	2,800	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Dibenzo (a,h) anthracene	ND	3,900	U	µg/Kg-dry	10	9/23/2011 7:00 PM
Fluoranthene	5,200	3,900		µg/Kg-dry	10	9/23/2011 7:00 PM
Fluorene	160	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Indeno(1,2,3-cd)pyrene	1,300	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Naphthalene	ND	3,900	U	µg/Kg-dry	10	9/23/2011 7:00 PM
Phenanthrene	1,900	3,900	J	µg/Kg-dry	10	9/23/2011 7:00 PM
Pyrene	4,300	3,900		µg/Kg-dry	10	9/23/2011 7:00 PM
Surr: 2-Fluorobiphenyl	81.6	45-105		%REC	10	9/23/2011 7:00 PM
Surr: Nitrobenzene-d5	78.0	35-100		%REC	10	9/23/2011 7:00 PM
Surr: Terphenyl-d14	105	30-125		%REC	10	9/23/2011 7:00 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	41	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	59	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	540	36		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	4,300	420		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	190,000	10,000		mg/Kg-dry	213.675 2137	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	11	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	84,000	9,600		mg/Kg	1	9/3/2011 2:06 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 4:45:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-007	**Matrix:**	Sediment
Client Sample ID:	MW-11-07		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,400	220		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	6.3	19	J	µg/Kg-dry	5	9/14/2011 10:07 AM
4,4'-DDE	16	9.3		µg/Kg-dry	5	9/14/2011 10:07 AM
4,4'-DDT	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Aldrin	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
alpha-BHC	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
alpha-Chlordane	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
beta-BHC	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Chlordane (Technical)	ND	190	U	µg/Kg-dry	5	9/14/2011 10:07 AM
delta-BHC	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Dieldrin	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Endosulfan I	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Endosulfan II	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Endosulfan sulfate	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Endrin	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Endrin aldehyde	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Endrin ketone	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
gamma-BHC	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
gamma-Chlordane	10	9.3		µg/Kg-dry	5	9/14/2011 10:07 AM
Heptachlor	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Heptachlor epoxide	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Methoxychlor	ND	9.3	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Toxaphene	ND	190	U	µg/Kg-dry	5	9/14/2011 10:07 AM
Surr: Decachlorobiphenyl	104	55-130		%REC	5	9/14/2011 10:07 AM
Surr: Tetrachloro-m-xylene	77.8	70-125		%REC	5	9/14/2011 10:07 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	74	U	µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1221	ND	74	U	µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1232	ND	74	U	µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1242	420	74		µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1248	ND	74	U	µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1254	270	74		µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1260	74	74	J	µg/Kg-dry	1	9/13/2011 3:15 PM
Aroclor 1262	ND	74	U	µg/Kg-dry	1	9/13/2011 3:15 PM
Total PCBs	760	74		µg/Kg-dry	1	9/13/2011 3:15 PM
Surr: Decachlorobiphenyl	66.0	60-125		%REC	1	9/13/2011 3:15 PM
Surr: Tetrachloro-m-xylene	90.7	60-125		%REC	1	9/13/2011 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 4:45:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-007	**Matrix:**	Sediment
Client Sample ID:	MW-11-07		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.2			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.35				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	990	230		mg/Kg-dry	50	8/31/2011 4:30 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	0.75	2.3	J	mg/Kg-dry	1	9/7/2011 1:47 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	4,600	320		µg/Kg-dry	20	9/6/2011 2:13 PM
Barium	100,000	1,600		µg/Kg-dry	20	9/6/2011 2:13 PM
Cadmium	2,000	630		µg/Kg-dry	20	9/6/2011 2:13 PM
Chromium	70,000	790		µg/Kg-dry	20	9/6/2011 2:13 PM
Copper	53,000	630		µg/Kg-dry	20	9/6/2011 2:13 PM
Iron	18,000,000	630,000		µg/Kg-dry	400	9/6/2011 4:36 PM
Lead	75,000	320		µg/Kg-dry	20	9/6/2011 2:13 PM
Manganese	630,000	63,000		µg/Kg-dry	400	9/6/2011 4:36 PM
Nickel	18,000	3,200		µg/Kg-dry	20	9/6/2011 2:13 PM
Selenium	1,000	1,600	J	µg/Kg-dry	20	9/6/2011 2:13 PM
Zinc	230,000	3,200		µg/Kg-dry	20	9/6/2011 2:13 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	920	75		µg/Kg-dry	10	9/2/2011 6:46 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	220	68		µg/Kg-dry	1	9/13/2011 3:05 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:25 PM
Acenaphthene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:25 PM
Acenaphthylene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:25 PM
Anthracene	150	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Benzo(a)anthracene	680	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Benzo(a)pyrene	820	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Benzo(b)fluoranthene	1,100	1,800	Jm	µg/Kg-dry	5	9/23/2011 7:25 PM
Benzo(g,h,i)perylene	460	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 4:45:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-007	**Matrix:**	Sediment
Client Sample ID:	MW-11-07		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	570	1,800	Jm	µg/Kg-dry	5	9/23/2011 7:25 PM
Chrysene	960	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Dibenzo (a,h) anthracene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:25 PM
Fluoranthene	1,600	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Fluorene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:25 PM
Indeno(1,2,3-cd)pyrene	410	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Naphthalene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:25 PM
Phenanthrene	640	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Pyrene	1,400	1,800	J	µg/Kg-dry	5	9/23/2011 7:25 PM
Surr: 2-Fluorobiphenyl	37.0	45-105	S	%REC	5	9/23/2011 7:25 PM
Surr: Nitrobenzene-d5	70.0	35-100		%REC	5	9/23/2011 7:25 PM
Surr: Terphenyl-d14	54.4	30-125		%REC	5	9/23/2011 7:25 PM
Physical Kit		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids and/or Moisture						
Percent Solids	44	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	56	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit		**Method: E350.1**				**Analyst: JE**
Ammonia						
Nitrogen, Ammonia	480	14		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3,400	380		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand, COD						
Chemical Oxygen Demand	160,000	9,700		mg/Kg-dry	214.592 2747	9/3/2011 11:00 AM
Organic Indicators Kit		**Method: A2540G**				**Analyst: NK**
Total, Fixed and Volatile Solids in Solids						
Total Volatile Solids	9.4	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit		**Method: SW9060**				**Analyst: NK**
Total Organic Carbon						
Organic Carbon, Total	73,000	7,600		mg/Kg	1	9/3/2011 2:23 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 5:56:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-008	**Matrix:**	Sediment
Client Sample ID:	MW-11-08		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	1,400	240		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	3.5	8.2	J	µg/Kg-dry	2	9/14/2011 10:53 AM
4,4'-DDE	6.7	4.0		µg/Kg-dry	2	9/14/2011 10:53 AM
4,4'-DDT	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Aldrin	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
alpha-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
alpha-Chlordane	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
beta-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Chlordane (Technical)	ND	81	U	µg/Kg-dry	2	9/14/2011 10:53 AM
delta-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Dieldrin	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Endosulfan I	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Endosulfan II	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Endosulfan sulfate	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Endrin	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Endrin aldehyde	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Endrin ketone	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
gamma-BHC	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
gamma-Chlordane	4.5	4.0		µg/Kg-dry	2	9/14/2011 10:53 AM
Heptachlor	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Heptachlor epoxide	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Methoxychlor	ND	4.0	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Toxaphene	ND	81	U	µg/Kg-dry	2	9/14/2011 10:53 AM
Surr: Decachlorobiphenyl	109	55-130		%REC	2	9/14/2011 10:53 AM
Surr: Tetrachloro-m-xylene	95.9	70-125		%REC	2	9/14/2011 10:53 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	80	U	µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1221	ND	80	U	µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1232	ND	80	U	µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1242	190	80		µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1248	ND	80	U	µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1254	140	80		µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1260	39	80	J	µg/Kg-dry	1	9/13/2011 3:44 PM
Aroclor 1262	ND	80	U	µg/Kg-dry	1	9/13/2011 3:44 PM
Total PCBs	370	80		µg/Kg-dry	1	9/13/2011 3:44 PM
Surr: Decachlorobiphenyl	80.6	60-125		%REC	1	9/13/2011 3:44 PM
Surr: Tetrachloro-m-xylene	114	60-125		%REC	1	9/13/2011 3:44 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 5:56:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-008	**Matrix:**	Sediment
Client Sample ID:	MW-11-08		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	10.8			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.29				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	820	230		mg/Kg-dry	50	8/31/2011 4:30 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	1.3	2.4	J	mg/Kg-dry	1	9/7/2011 1:15 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	5,700	320		µg/Kg-dry	20	9/6/2011 2:14 PM
Barium	120,000	1,600		µg/Kg-dry	20	9/6/2011 2:14 PM
Cadmium	2,800	650		µg/Kg-dry	20	9/6/2011 2:14 PM
Chromium	100,000	810		µg/Kg-dry	20	9/6/2011 2:14 PM
Copper	66,000	650		µg/Kg-dry	20	9/6/2011 2:14 PM
Iron	22,000,000	650,000		µg/Kg-dry	400	9/6/2011 4:37 PM
Lead	99,000	320		µg/Kg-dry	20	9/6/2011 2:14 PM
Manganese	700,000	65,000		µg/Kg-dry	400	9/6/2011 4:37 PM
Nickel	22,000	3,200		µg/Kg-dry	20	9/6/2011 2:14 PM
Selenium	1,100	1,600	J	µg/Kg-dry	20	9/6/2011 2:14 PM
Zinc	290,000	3,200		µg/Kg-dry	20	9/6/2011 2:14 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	900	80		µg/Kg-dry	10	9/2/2011 6:47 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	210	79		µg/Kg-dry	1	9/13/2011 3:06 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,900	U	µg/Kg-dry	5	9/23/2011 5:48 PM
Acenaphthene	140	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Acenaphthylene	190	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Anthracene	430	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Benzo(a)anthracene	1,700	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Benzo(a)pyrene	2,100	1,900		µg/Kg-dry	5	9/23/2011 5:48 PM
Benzo(b)fluoranthene	3,400	1,900	m	µg/Kg-dry	5	9/23/2011 5:48 PM
Benzo(g,h,i)perylene	1,500	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 5:56:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-008	**Matrix:**	Sediment
Client Sample ID:	MW-11-08		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,200	1,900	Jm	µg/Kg-dry	5	9/23/2011 5:48 PM
Chrysene	2,600	1,900		µg/Kg-dry	5	9/23/2011 5:48 PM
Dibenzo (a,h) anthracene	350	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Fluoranthene	4,500	1,900		µg/Kg-dry	5	9/23/2011 5:48 PM
Fluorene	170	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Indeno(1,2,3-cd)pyrene	1,300	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Naphthalene	120	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Phenanthrene	1,700	1,900	J	µg/Kg-dry	5	9/23/2011 5:48 PM
Pyrene	3,600	1,900		µg/Kg-dry	5	9/23/2011 5:48 PM
Surr: 2-Fluorobiphenyl	77.4	45-105		%REC	5	9/23/2011 5:48 PM
Surr: Nitrobenzene-d5	67.8	35-100		%REC	5	9/23/2011 5:48 PM
Surr: Terphenyl-d14	84.0	30-125		%REC	5	9/23/2011 5:48 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	41	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	59	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	330	15		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	1,700	200		mg/Kg-dry	5	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	170,000	10,000		mg/Kg-dry	214.592 2747	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	9.9	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	78,000	8,400		mg/Kg	1	9/3/2011 2:39 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 7:12:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-009	**Matrix:**	Sediment
Client Sample ID:	MW-11-09		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	1,500	180		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	8.2	15	J	µg/Kg-dry	5	9/14/2011 11:39 AM
4,4'-DDE	23	7.4		µg/Kg-dry	5	9/14/2011 11:39 AM
4,4'-DDT	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Aldrin	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
alpha-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
alpha-Chlordane	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
beta-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Chlordane (Technical)	ND	150	U	µg/Kg-dry	5	9/14/2011 11:39 AM
delta-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Dieldrin	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Endosulfan I	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Endosulfan II	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Endosulfan sulfate	8.7	7.4		µg/Kg-dry	5	9/14/2011 11:39 AM
Endrin	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Endrin aldehyde	12	7.4		µg/Kg-dry	5	9/14/2011 11:39 AM
Endrin ketone	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
gamma-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
gamma-Chlordane	17	7.4		µg/Kg-dry	5	9/14/2011 11:39 AM
Heptachlor	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Heptachlor epoxide	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Methoxychlor	ND	7.4	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Toxaphene	ND	150	U	µg/Kg-dry	5	9/14/2011 11:39 AM
Surr: Decachlorobiphenyl	113	55-130		%REC	5	9/14/2011 11:39 AM
Surr: Tetrachloro-m-xylene	85.6	70-125		%REC	5	9/14/2011 11:39 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	59	U	µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1221	ND	59	U	µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1232	ND	59	U	µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1242	230	59		µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1248	ND	59	U	µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1254	190	59		µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1260	56	59	J	µg/Kg-dry	1	9/14/2011 4:26 AM
Aroclor 1262	ND	59	U	µg/Kg-dry	1	9/14/2011 4:26 AM
Total PCBs	470	59		µg/Kg-dry	1	9/14/2011 4:26 AM
Surr: Decachlorobiphenyl	29.8	60-125	S	%REC	1	9/14/2011 4:26 AM
Surr: Tetrachloro-m-xylene	31.4	60-125	S	%REC	1	9/14/2011 4:26 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 7:12:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-009	**Matrix:**	Sediment
Client Sample ID:	MW-11-09		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	12.2			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.47				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	1,100	160		mg/Kg-dry	50	8/31/2011 4:31 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	0.89	1.8	J	mg/Kg-dry	1	9/7/2011 5:27 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	11,000	290		µg/Kg-dry	20	9/6/2011 2:16 PM
Barium	130,000	1,400		µg/Kg-dry	20	9/6/2011 2:16 PM
Cadmium	6,500	570		µg/Kg-dry	20	9/6/2011 2:16 PM
Chromium	280,000	710		µg/Kg-dry	20	9/6/2011 2:16 PM
Copper	84,000	570		µg/Kg-dry	20	9/6/2011 2:16 PM
Iron	19,000,000	570,000		µg/Kg-dry	400	9/6/2011 4:38 PM
Lead	200,000	290		µg/Kg-dry	20	9/6/2011 2:16 PM
Manganese	500,000	57,000		µg/Kg-dry	400	9/6/2011 4:38 PM
Nickel	28,000	2,900		µg/Kg-dry	20	9/6/2011 2:16 PM
Selenium	1,300	1,400	J	µg/Kg-dry	20	9/6/2011 2:16 PM
Zinc	460,000	2,900		µg/Kg-dry	20	9/6/2011 2:16 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	1,900	65		µg/Kg-dry	10	9/2/2011 6:48 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	510	52		µg/Kg-dry	1	9/13/2011 3:09 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	150	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Acenaphthene	280	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Acenaphthylene	620	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Anthracene	860	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Benzo(a)anthracene	2,700	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM
Benzo(a)pyrene	2,700	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM
Benzo(b)fluoranthene	3,800	1,400	m	µg/Kg-dry	5	9/23/2011 6:12 PM
Benzo(g,h,i)perylene	1,400	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 7:12:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-009	**Matrix:**	Sediment
Client Sample ID:	MW-11-09		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,100	1,400	Jm	µg/Kg-dry	5	9/23/2011 6:12 PM
Chrysene	3,200	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM
Dibenzo (a,h) anthracene	470	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Fluoranthene	5,000	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM
Fluorene	460	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Indeno(1,2,3-cd)pyrene	1,300	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Naphthalene	350	1,400	J	µg/Kg-dry	5	9/23/2011 6:12 PM
Phenanthrene	2,400	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM
Pyrene	4,800	1,400		µg/Kg-dry	5	9/23/2011 6:12 PM
Surr: 2-Fluorobiphenyl	64.0	45-105		%REC	5	9/23/2011 6:12 PM
Surr: Nitrobenzene-d5	57.0	35-100		%REC	5	9/23/2011 6:12 PM
Surr: Terphenyl-d14	71.6	30-125		%REC	5	9/23/2011 6:12 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	56	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	44	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	320	11		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	2,800	350		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	130,000	7,300		mg/Kg-dry	203.252 0325	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	11	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	96,000	7,900		mg/Kg	1	9/3/2011 2:59 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 11:50:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-010	**Matrix:**	Sediment
Client Sample ID:	MW-11-10		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,300	230		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	18	39	J	µg/Kg-dry	10	9/14/2011 12:25 PM
4,4'-DDE	33	19		µg/Kg-dry	10	9/14/2011 12:25 PM
4,4'-DDT	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Aldrin	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
alpha-BHC	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
alpha-Chlordane	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
beta-BHC	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Chlordane (Technical)	ND	380	U	µg/Kg-dry	10	9/14/2011 12:25 PM
delta-BHC	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Dieldrin	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Endosulfan I	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Endosulfan II	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Endosulfan sulfate	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Endrin	20	19		µg/Kg-dry	10	9/14/2011 12:25 PM
Endrin aldehyde	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Endrin ketone	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
gamma-BHC	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
gamma-Chlordane	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Heptachlor	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Heptachlor epoxide	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Methoxychlor	ND	19	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Toxaphene	ND	380	U	µg/Kg-dry	10	9/14/2011 12:25 PM
Surr: Decachlorobiphenyl	78.0	55-130		%REC	10	9/14/2011 12:25 PM
Surr: Tetrachloro-m-xylene	130	70-125	S	%REC	10	9/14/2011 12:25 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	75	U	µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1221	ND	75	U	µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1232	ND	75	U	µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1242	300	75		µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1248	ND	75	U	µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1254	200	75		µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1260	59	75	J	µg/Kg-dry	1	9/14/2011 5:01 AM
Aroclor 1262	ND	75	U	µg/Kg-dry	1	9/14/2011 5:01 AM
Total PCBs	560	75		µg/Kg-dry	1	9/14/2011 5:01 AM
Surr: Decachlorobiphenyl	35.7	60-125	S	%REC	1	9/14/2011 5:01 AM
Surr: Tetrachloro-m-xylene	35.3	60-125	S	%REC	1	9/14/2011 5:01 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 11:50:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-010	**Matrix:**	Sediment
Client Sample ID:	MW-11-10		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	10.8			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.29				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	710	210		mg/Kg-dry	50	8/31/2011 4:31 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.3	U	mg/Kg-dry	1	9/7/2011 5:27 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	8,700	330		µg/Kg-dry	20	9/6/2011 2:17 PM
Barium	120,000	1,700		µg/Kg-dry	20	9/6/2011 2:17 PM
Cadmium	4,700	660		µg/Kg-dry	20	9/6/2011 2:17 PM
Chromium	150,000	830		µg/Kg-dry	20	9/6/2011 2:17 PM
Copper	88,000	660		µg/Kg-dry	20	9/6/2011 2:17 PM
Iron	26,000,000	660,000		µg/Kg-dry	400	9/6/2011 4:39 PM
Lead	190,000	330		µg/Kg-dry	20	9/6/2011 2:17 PM
Manganese	660,000	66,000		µg/Kg-dry	400	9/6/2011 4:39 PM
Nickel	28,000	3,300		µg/Kg-dry	20	9/6/2011 2:17 PM
Selenium	1,200	1,700	J	µg/Kg-dry	20	9/6/2011 2:17 PM
Zinc	460,000	3,300		µg/Kg-dry	20	9/6/2011 2:17 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	1,100	89		µg/Kg-dry	10	9/2/2011 6:49 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	370	64		µg/Kg-dry	1	9/13/2011 3:11 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	160	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Acenaphthene	250	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Acenaphthylene	490	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Anthracene	940	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Benzo(a)anthracene	3,500	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Benzo(a)pyrene	4,300	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Benzo(b)fluoranthene	6,900	1,800	m	µg/Kg-dry	5	9/23/2011 6:36 PM
Benzo(g,h,i)perylene	2,300	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 11:50:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-010	**Matrix:**	Sediment
Client Sample ID:	MW-11-10		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	2,100	1,800	m	µg/Kg-dry	5	9/23/2011 6:36 PM
Chrysene	4,300	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Dibenzo (a,h) anthracene	650	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Fluoranthene	7,500	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Fluorene	400	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Indeno(1,2,3-cd)pyrene	2,100	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Naphthalene	660	1,800	J	µg/Kg-dry	5	9/23/2011 6:36 PM
Phenanthrene	3,200	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Pyrene	6,600	1,800		µg/Kg-dry	5	9/23/2011 6:36 PM
Surr: 2-Fluorobiphenyl	68.6	45-105		%REC	5	9/23/2011 6:36 PM
Surr: Nitrobenzene-d5	65.6	35-100		%REC	5	9/23/2011 6:36 PM
Surr: Terphenyl-d14	82.0	30-125		%REC	5	9/23/2011 6:36 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	44	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	56	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	260	13		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	3,700	400		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	200,000	9,500		mg/Kg-dry	208.3333 3333	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	11	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	100,000	7,200		mg/Kg	1	9/3/2011 3:19 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 11:15:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-011	**Matrix:**	Sediment
Client Sample ID:	MW-11-11		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit	**Method: 9071B**			**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	440	200		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides	**Method: SW8081A**			**SW3550C**		**Analyst: MB**
4,4'-DDD	20	17		µg/Kg-dry	5	9/14/2011 7:18 PM
4,4'-DDE	30	8.5		µg/Kg-dry	5	9/14/2011 7:18 PM
4,4'-DDT	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Aldrin	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
alpha-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
alpha-Chlordane	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
beta-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Chlordane (Technical)	ND	170	U	µg/Kg-dry	5	9/14/2011 7:18 PM
delta-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Dieldrin	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Endosulfan I	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Endosulfan II	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Endosulfan sulfate	12	8.5		µg/Kg-dry	5	9/14/2011 7:18 PM
Endrin	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Endrin aldehyde	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Endrin ketone	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
gamma-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
gamma-Chlordane	23	8.5		µg/Kg-dry	5	9/14/2011 7:18 PM
Heptachlor	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Heptachlor epoxide	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Methoxychlor	ND	8.5	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Toxaphene	ND	170	U	µg/Kg-dry	5	9/14/2011 7:18 PM
Surr: Decachlorobiphenyl	83.0	55-130		%REC	5	9/14/2011 7:18 PM
Surr: Tetrachloro-m-xylene	74.8	70-125		%REC	5	9/14/2011 7:18 PM
Polychlorinated Biphenyls	**Method: SW8082**			**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	68	U	µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1221	ND	68	U	µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1232	ND	68	U	µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1242	460	68		µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1248	ND	68	U	µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1254	290	68		µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1260	61	68	J	µg/Kg-dry	1	9/14/2011 5:35 AM
Aroclor 1262	ND	68	U	µg/Kg-dry	1	9/14/2011 5:35 AM
Total PCBs	810	68		µg/Kg-dry	1	9/14/2011 5:35 AM
Surr: Decachlorobiphenyl	25.8	60-125	S	%REC	1	9/14/2011 5:35 AM
Surr: Tetrachloro-m-xylene	30.0	60-125	S	%REC	1	9/14/2011 5:35 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 11:15:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-011	**Matrix:**	Sediment
Client Sample ID:	MW-11-11		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.6			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.39				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	730	210		mg/Kg-dry	50	8/31/2011 4:31 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.1	U	mg/Kg-dry	1	9/7/2011 5:27 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	7,500	300		µg/Kg-dry	20	9/6/2011 2:45 PM
Barium	120,000	1,500		µg/Kg-dry	20	9/6/2011 2:45 PM
Cadmium	3,800	600		µg/Kg-dry	20	9/6/2011 2:45 PM
Chromium	95,000	750		µg/Kg-dry	20	9/6/2011 2:45 PM
Copper	92,000	600		µg/Kg-dry	20	9/6/2011 2:45 PM
Iron	20,000,000	600,000		µg/Kg-dry	400	9/6/2011 5:00 PM
Lead	200,000	300		µg/Kg-dry	20	9/6/2011 2:45 PM
Manganese	500,000	60,000		µg/Kg-dry	400	9/6/2011 5:00 PM
Nickel	29,000	3,000		µg/Kg-dry	20	9/6/2011 2:45 PM
Selenium	1,300	1,500	J	µg/Kg-dry	20	9/6/2011 2:45 PM
Zinc	460,000	3,000		µg/Kg-dry	20	9/6/2011 2:45 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	690	76		µg/Kg-dry	10	9/2/2011 7:15 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	270	59		µg/Kg-dry	1	9/13/2011 3:12 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,700	U	µg/Kg-dry	5	9/23/2011 5:35 PM
Acenaphthene	150	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Acenaphthylene	120	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Anthracene	390	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Benzo(a)anthracene	1,800	1,700		µg/Kg-dry	5	9/23/2011 5:35 PM
Benzo(a)pyrene	2,300	1,700		µg/Kg-dry	5	9/23/2011 5:35 PM
Benzo(b)fluoranthene	3,800	1,700	m	µg/Kg-dry	5	9/23/2011 5:35 PM
Benzo(g,h,i)perylene	1,200	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 11:15:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-011	**Matrix:**	Sediment
Client Sample ID:	MW-11-11		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,300	1,700	Jm	µg/Kg-dry	5	9/23/2011 5:35 PM
Chrysene	2,800	1,700		µg/Kg-dry	5	9/23/2011 5:35 PM
Dibenzo (a,h) anthracene	280	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Fluoranthene	4,600	1,700		µg/Kg-dry	5	9/23/2011 5:35 PM
Fluorene	220	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Indeno(1,2,3-cd)pyrene	1,100	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Naphthalene	160	1,700	J	µg/Kg-dry	5	9/23/2011 5:35 PM
Phenanthrene	2,000	1,700		µg/Kg-dry	5	9/23/2011 5:35 PM
Pyrene	4,400	1,700		µg/Kg-dry	5	9/23/2011 5:35 PM
Surr: 2-Fluorobiphenyl	42.0	45-105	S	%REC	5	9/23/2011 5:35 PM
Surr: Nitrobenzene-d5	38.6	35-100		%REC	5	9/23/2011 5:35 PM
Surr: Terphenyl-d14	52.4	30-125		%REC	5	9/23/2011 5:35 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	49	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	51	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	220	12		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	2,400	190		mg/Kg-dry	5	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	140,000	9,700		mg/Kg-dry	234.741 784	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	8.5	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	76,000	8,200		mg/Kg	1	9/3/2011 4:18 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 10:30:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-012	**Matrix:**	Sediment
Client Sample ID:	MW-11-12		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	3,300	210		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	30	17		µg/Kg-dry	5	9/14/2011 8:03 PM
4,4'-DDE	40	8.5		µg/Kg-dry	5	9/14/2011 8:03 PM
4,4'-DDT	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Aldrin	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
alpha-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
alpha-Chlordane	5.1	8.5	J	µg/Kg-dry	5	9/14/2011 8:03 PM
beta-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Chlordane (Technical)	ND	170	U	µg/Kg-dry	5	9/14/2011 8:03 PM
delta-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Dieldrin	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Endosulfan I	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Endosulfan II	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Endosulfan sulfate	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Endrin	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Endrin aldehyde	19	8.5		µg/Kg-dry	5	9/14/2011 8:03 PM
Endrin ketone	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
gamma-BHC	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
gamma-Chlordane	27	8.5		µg/Kg-dry	5	9/14/2011 8:03 PM
Heptachlor	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Heptachlor epoxide	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Methoxychlor	ND	8.5	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Toxaphene	ND	170	U	µg/Kg-dry	5	9/14/2011 8:03 PM
Surr: Decachlorobiphenyl	79.0	55-130		%REC	5	9/14/2011 8:03 PM
Surr: Tetrachloro-m-xylene	88.9	70-125		%REC	5	9/14/2011 8:03 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	68	U	µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1221	ND	68	U	µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1232	ND	68	U	µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1242	220	68		µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1248	ND	68	U	µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1254	130	68		µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1260	31	68	J	µg/Kg-dry	1	9/14/2011 6:09 AM
Aroclor 1262	ND	68	U	µg/Kg-dry	1	9/14/2011 6:09 AM
Total PCBs	390	68		µg/Kg-dry	1	9/14/2011 6:09 AM
Surr: Decachlorobiphenyl	11.6	60-125	S	%REC	1	9/14/2011 6:09 AM
Surr: Tetrachloro-m-xylene	15.7	60-125	S	%REC	1	9/14/2011 6:09 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 10:30:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-012	**Matrix:**	Sediment
Client Sample ID:	MW-11-12		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.2			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.35				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	590	190		mg/Kg-dry	50	8/31/2011 4:31 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.1	U	mg/Kg-dry	1	9/7/2011 5:27 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	7,900	230		µg/Kg-dry	20	9/6/2011 2:47 PM
Barium	130,000	1,200		µg/Kg-dry	20	9/6/2011 2:47 PM
Cadmium	3,300	470		µg/Kg-dry	20	9/6/2011 2:47 PM
Chromium	100,000	590		µg/Kg-dry	20	9/6/2011 2:47 PM
Copper	98,000	470		µg/Kg-dry	20	9/6/2011 2:47 PM
Iron	18,000,000	470,000		µg/Kg-dry	400	9/6/2011 5:00 PM
Lead	200,000	230		µg/Kg-dry	20	9/6/2011 2:47 PM
Manganese	410,000	47,000		µg/Kg-dry	400	9/6/2011 5:00 PM
Nickel	28,000	2,300		µg/Kg-dry	20	9/6/2011 2:47 PM
Selenium	980	1,200	J	µg/Kg-dry	20	9/6/2011 2:47 PM
Zinc	490,000	2,300		µg/Kg-dry	20	9/6/2011 2:47 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	320	60		µg/Kg-dry	10	9/2/2011 7:16 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	210	58		µg/Kg-dry	1	9/13/2011 3:17 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	68	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Acenaphthene	270	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Acenaphthylene	140	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Anthracene	620	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Benzo(a)anthracene	2,500	1,600		µg/Kg-dry	5	9/23/2011 5:58 PM
Benzo(a)pyrene	3,000	1,600		µg/Kg-dry	5	9/23/2011 5:58 PM
Benzo(b)fluoranthene	5,200	1,600	m	µg/Kg-dry	5	9/23/2011 5:58 PM
Benzo(g,h,i)perylene	1,500	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 10:30:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-012	**Matrix:**	Sediment
Client Sample ID:	MW-11-12		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,700	1,600	m	µg/Kg-dry	5	9/23/2011 5:58 PM
Chrysene	3,800	1,600		µg/Kg-dry	5	9/23/2011 5:58 PM
Dibenzo (a,h) anthracene	340	1,600	Jm	µg/Kg-dry	5	9/23/2011 5:58 PM
Fluoranthene	6,600	1,600		µg/Kg-dry	5	9/23/2011 5:58 PM
Fluorene	330	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Indeno(1,2,3-cd)pyrene	1,300	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Naphthalene	330	1,600	J	µg/Kg-dry	5	9/23/2011 5:58 PM
Phenanthrene	3,100	1,600		µg/Kg-dry	5	9/23/2011 5:58 PM
Pyrene	6,500	1,600		µg/Kg-dry	5	9/23/2011 5:58 PM
Surr: 2-Fluorobiphenyl	45.0	45-105		%REC	5	9/23/2011 5:58 PM
Surr: Nitrobenzene-d5	41.4	35-100		%REC	5	9/23/2011 5:58 PM
Surr: Terphenyl-d14	57.8	30-125		%REC	5	9/23/2011 5:58 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	49	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	51	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	240	13		mg/Kg-dry	2	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	2,000	160		mg/Kg-dry	5	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	160,000	8,600		mg/Kg-dry	210.084 0336	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	9.4	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	81,000	6,300		mg/Kg	1	9/2/2011 6:12 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 9:12:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-013	**Matrix:**	Sediment
Client Sample ID:	MW-11-13		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	9,200	180		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	32	15		µg/Kg-dry	5	9/14/2011 8:49 PM
4,4'-DDE	35	7.4		µg/Kg-dry	5	9/14/2011 8:49 PM
4,4'-DDT	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Aldrin	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
alpha-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
alpha-Chlordane	4.9	7.4	J	µg/Kg-dry	5	9/14/2011 8:49 PM
beta-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Chlordane (Technical)	ND	150	U	µg/Kg-dry	5	9/14/2011 8:49 PM
delta-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Dieldrin	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Endosulfan I	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Endosulfan II	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Endosulfan sulfate	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Endrin	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Endrin aldehyde	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Endrin ketone	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
gamma-BHC	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
gamma-Chlordane	26	7.4		µg/Kg-dry	5	9/14/2011 8:49 PM
Heptachlor	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Heptachlor epoxide	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Methoxychlor	ND	7.4	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Toxaphene	ND	150	U	µg/Kg-dry	5	9/14/2011 8:49 PM
Surr: Decachlorobiphenyl	89.1	55-130		%REC	5	9/14/2011 8:49 PM
Surr: Tetrachloro-m-xylene	99.1	70-125		%REC	5	9/14/2011 8:49 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	59	U	µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1221	ND	59	U	µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1232	ND	59	U	µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1242	160	59		µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1248	ND	59	U	µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1254	81	59		µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1260	15	59	J	µg/Kg-dry	1	9/14/2011 6:43 AM
Aroclor 1262	ND	59	U	µg/Kg-dry	1	9/14/2011 6:43 AM
Total PCBs	260	59		µg/Kg-dry	1	9/14/2011 6:43 AM
Surr: Decachlorobiphenyl	5.92	60-125	S	%REC	1	9/14/2011 6:43 AM
Surr: Tetrachloro-m-xylene	7.56	60-125	S	%REC	1	9/14/2011 6:43 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 9:12:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-013	**Matrix:**	Sediment
Client Sample ID:	MW-11-13		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	12.3			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.48				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	760	180		mg/Kg-dry	50	8/31/2011 4:54 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	1.2	1.8	J	mg/Kg-dry	1	9/7/2011 5:31 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	5,900	250		µg/Kg-dry	20	9/6/2011 2:48 PM
Barium	98,000	1,300		µg/Kg-dry	20	9/6/2011 2:48 PM
Cadmium	3,200	510		µg/Kg-dry	20	9/6/2011 2:48 PM
Chromium	86,000	630		µg/Kg-dry	20	9/6/2011 2:48 PM
Copper	98,000	510		µg/Kg-dry	20	9/6/2011 2:48 PM
Iron	19,000,000	510,000		µg/Kg-dry	400	9/6/2011 5:01 PM
Lead	220,000	250		µg/Kg-dry	20	9/6/2011 2:48 PM
Manganese	420,000	51,000		µg/Kg-dry	400	9/6/2011 5:01 PM
Nickel	26,000	2,500		µg/Kg-dry	20	9/6/2011 2:48 PM
Selenium	990	1,300	J	µg/Kg-dry	20	9/6/2011 2:48 PM
Zinc	490,000	2,500		µg/Kg-dry	20	9/6/2011 2:48 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	790	49		µg/Kg-dry	10	9/2/2011 7:17 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	210	53		µg/Kg-dry	1	9/13/2011 3:18 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	7,100	U	µg/Kg-dry	5	9/23/2011 6:22 PM
Acenaphthene	670	7,100	J	µg/Kg-dry	5	9/23/2011 6:22 PM
Acenaphthylene	ND	7,100	U	µg/Kg-dry	5	9/23/2011 6:22 PM
Anthracene	1,600	7,100	J	µg/Kg-dry	5	9/23/2011 6:22 PM
Benzo(a)anthracene	6,800	7,100	J	µg/Kg-dry	5	9/23/2011 6:22 PM
Benzo(a)pyrene	7,300	7,100		µg/Kg-dry	5	9/23/2011 6:22 PM
Benzo(b)fluoranthene	12,000	7,100	m	µg/Kg-dry	5	9/23/2011 6:22 PM
Benzo(g,h,i)perylene	3,600	7,100	J	µg/Kg-dry	5	9/23/2011 6:22 PM

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 9:12:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-013	**Matrix:**	Sediment
Client Sample ID:	MW-11-13		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	3,900	7,100	Jm	µg/Kg-dry	5	9/23/2011 6:22 PM
Chrysene	9,200	7,100		µg/Kg-dry	5	9/23/2011 6:22 PM
Dibenzo (a,h) anthracene	ND	7,100	U	µg/Kg-dry	5	9/23/2011 6:22 PM
Fluoranthene	18,000	7,100		µg/Kg-dry	5	9/23/2011 6:22 PM
Fluorene	860	7,100	J	µg/Kg-dry	5	9/23/2011 6:22 PM
Indeno(1,2,3-cd)pyrene	3,600	7,100	J	µg/Kg-dry	5	9/23/2011 6:22 PM
Naphthalene	ND	7,100	U	µg/Kg-dry	5	9/23/2011 6:22 PM
Phenanthrene	9,600	7,100		µg/Kg-dry	5	9/23/2011 6:22 PM
Pyrene	17,000	7,100		µg/Kg-dry	5	9/23/2011 6:22 PM
Surr: 2-Fluorobiphenyl	74.0	45-105		%REC	5	9/23/2011 6:22 PM
Surr: Nitrobenzene-d5	64.0	35-100		%REC	5	9/23/2011 6:22 PM
Surr: Terphenyl-d14	104	30-125		%REC	5	9/23/2011 6:22 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	56	1.0		%	1	8/31/2011 3:45 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	44	1.0		wt%	1	8/31/2011 3:45 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	530	28		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	3,000	310		mg/Kg-dry	10	9/1/2011 11:15 AM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	150,000	8,300		mg/Kg-dry	232.558 1395	9/3/2011 11:00 AM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	9.8	0.10		%	1	8/31/2011 9:15 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	230,000	8,700		mg/Kg	1	9/2/2011 6:41 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 10:58:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-014	**Matrix:**	Sediment
Client Sample ID:	MW-11-14		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,000	260		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	ND	8.8	U	µg/Kg-dry	2	9/14/2011 9:35 PM
4,4'-DDE	6.2	4.3		µg/Kg-dry	2	9/14/2011 9:35 PM
4,4'-DDT	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Aldrin	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
alpha-BHC	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
alpha-Chlordane	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
beta-BHC	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Chlordane (Technical)	ND	87	U	µg/Kg-dry	2	9/14/2011 9:35 PM
delta-BHC	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Dieldrin	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Endosulfan I	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Endosulfan II	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Endosulfan sulfate	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Endrin	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Endrin aldehyde	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Endrin ketone	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
gamma-BHC	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
gamma-Chlordane	4.2	4.3	J	µg/Kg-dry	2	9/14/2011 9:35 PM
Heptachlor	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Heptachlor epoxide	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Methoxychlor	ND	4.3	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Toxaphene	ND	87	U	µg/Kg-dry	2	9/14/2011 9:35 PM
Surr: Decachlorobiphenyl	89.7	55-130		%REC	2	9/14/2011 9:35 PM
Surr: Tetrachloro-m-xylene	88.6	70-125		%REC	2	9/14/2011 9:35 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	86	U	µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1221	ND	86	U	µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1232	ND	86	U	µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1242	210	86		µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1248	ND	86	U	µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1254	140	86		µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1260	49	86	J	µg/Kg-dry	1	9/13/2011 9:36 PM
Aroclor 1262	ND	86	U	µg/Kg-dry	1	9/13/2011 9:36 PM
Total PCBs	410	86		µg/Kg-dry	1	9/13/2011 9:36 PM
Surr: Decachlorobiphenyl	80.9	60-125		%REC	1	9/13/2011 9:36 PM
Surr: Tetrachloro-m-xylene	109	60-125		%REC	1	9/13/2011 9:36 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 10:58:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-014	**Matrix:**	Sediment
Client Sample ID:	MW-11-14		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	10.3			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.24				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	930	240		mg/Kg-dry	50	8/31/2011 4:54 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.6	U	mg/Kg-dry	1	9/7/2011 5:31 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	5,900	380		µg/Kg-dry	20	9/6/2011 2:50 PM
Barium	140,000	1,900		µg/Kg-dry	20	9/6/2011 2:50 PM
Cadmium	2,500	760		µg/Kg-dry	20	9/6/2011 2:50 PM
Chromium	66,000	950		µg/Kg-dry	20	9/6/2011 2:50 PM
Copper	71,000	760		µg/Kg-dry	20	9/6/2011 2:50 PM
Iron	19,000,000	760,000		µg/Kg-dry	400	9/6/2011 5:02 PM
Lead	110,000	380		µg/Kg-dry	20	9/6/2011 2:50 PM
Manganese	810,000	76,000		µg/Kg-dry	400	9/6/2011 5:02 PM
Nickel	24,000	3,800		µg/Kg-dry	20	9/6/2011 2:50 PM
Selenium	1,300	1,900	J	µg/Kg-dry	20	9/6/2011 2:50 PM
Zinc	370,000	3,800		µg/Kg-dry	20	9/6/2011 2:50 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	690	98		µg/Kg-dry	10	9/2/2011 7:18 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	210	59		µg/Kg-dry	1	9/13/2011 3:24 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	2,100	U	µg/Kg-dry	5	9/23/2011 6:45 PM
Acenaphthene	120	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Acenaphthylene	ND	2,100	U	µg/Kg-dry	5	9/23/2011 6:45 PM
Anthracene	400	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Benzo(a)anthracene	1,800	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Benzo(a)pyrene	2,000	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Benzo(b)fluoranthene	3,200	2,100	m	µg/Kg-dry	5	9/23/2011 6:45 PM
Benzo(g,h,i)perylene	960	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 10:58:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-014	**Matrix:**	Sediment
Client Sample ID:	MW-11-14		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,200	2,100	Jm	µg/Kg-dry	5	9/23/2011 6:45 PM
Chrysene	2,500	2,100		µg/Kg-dry	5	9/23/2011 6:45 PM
Dibenzo (a,h) anthracene	ND	2,100	U	µg/Kg-dry	5	9/23/2011 6:45 PM
Fluoranthene	4,300	2,100		µg/Kg-dry	5	9/23/2011 6:45 PM
Fluorene	150	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Indeno(1,2,3-cd)pyrene	810	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Naphthalene	ND	2,100	U	µg/Kg-dry	5	9/23/2011 6:45 PM
Phenanthrene	2,100	2,100	J	µg/Kg-dry	5	9/23/2011 6:45 PM
Pyrene	4,200	2,100		µg/Kg-dry	5	9/23/2011 6:45 PM
Surr: 2-Fluorobiphenyl	62.8	45-105		%REC	5	9/23/2011 6:45 PM
Surr: Nitrobenzene-d5	60.8	35-100		%REC	5	9/23/2011 6:45 PM
Surr: Terphenyl-d14	93.6	30-125		%REC	5	9/23/2011 6:45 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	38	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	62	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	600	39		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	5,400	450		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	190,000	10,000		mg/Kg-dry	196.8503937	9/3/2011 12:00 PM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	12	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	98,000	9,100		mg/Kg	1	9/2/2011 12:53 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 11:07:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-015	**Matrix:**	Sediment
Client Sample ID:	MW-11-15		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	1,600	230		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	ND	7.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
4,4'-DDE	5.5	3.7		µg/Kg-dry	2	9/14/2011 10:21 PM
4,4'-DDT	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Aldrin	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
alpha-BHC	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
alpha-Chlordane	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
beta-BHC	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Chlordane (Technical)	ND	75	U	µg/Kg-dry	2	9/14/2011 10:21 PM
delta-BHC	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Dieldrin	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Endosulfan I	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Endosulfan II	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Endosulfan sulfate	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Endrin	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Endrin aldehyde	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Endrin ketone	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
gamma-BHC	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
gamma-Chlordane	3.3	3.7	J	µg/Kg-dry	2	9/14/2011 10:21 PM
Heptachlor	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Heptachlor epoxide	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Methoxychlor	ND	3.7	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Toxaphene	ND	75	U	µg/Kg-dry	2	9/14/2011 10:21 PM
Surr: Decachlorobiphenyl	100	55-130		%REC	2	9/14/2011 10:21 PM
Surr: Tetrachloro-m-xylene	98.2	70-125		%REC	2	9/14/2011 10:21 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	74	U	µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1221	ND	74	U	µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1232	ND	74	U	µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1242	170	74		µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1248	ND	74	U	µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1254	120	74		µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1260	33	74	J	µg/Kg-dry	1	9/13/2011 10:10 PM
Aroclor 1262	ND	74	U	µg/Kg-dry	1	9/13/2011 10:10 PM
Total PCBs	330	74		µg/Kg-dry	1	9/13/2011 10:10 PM
Surr: Decachlorobiphenyl	113	60-125		%REC	1	9/13/2011 10:10 PM
Surr: Tetrachloro-m-xylene	120	60-125		%REC	1	9/13/2011 10:10 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 11:07:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-015	**Matrix:**	Sediment
Client Sample ID:	MW-11-15		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.2			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.34				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	850	210		mg/Kg-dry	50	8/31/2011 4:54 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.3	U	mg/Kg-dry	1	9/7/2011 5:31 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	6,800	310		µg/Kg-dry	20	9/6/2011 2:51 PM
Barium	150,000	1,600		µg/Kg-dry	20	9/6/2011 2:51 PM
Cadmium	2,600	620		µg/Kg-dry	20	9/6/2011 2:51 PM
Chromium	74,000	780		µg/Kg-dry	20	9/6/2011 2:51 PM
Copper	83,000	620		µg/Kg-dry	20	9/6/2011 2:51 PM
Iron	18,000,000	620,000		µg/Kg-dry	400	9/6/2011 5:03 PM
Lead	120,000	310		µg/Kg-dry	20	9/6/2011 2:51 PM
Manganese	670,000	62,000		µg/Kg-dry	400	9/6/2011 5:03 PM
Nickel	26,000	3,100		µg/Kg-dry	20	9/6/2011 2:51 PM
Selenium	1,400	1,600	J	µg/Kg-dry	20	9/6/2011 2:51 PM
Zinc	340,000	3,100		µg/Kg-dry	20	9/6/2011 2:51 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	840	78		µg/Kg-dry	10	9/2/2011 7:23 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	200	78		µg/Kg-dry	1	9/13/2011 3:26 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:09 PM
Acenaphthene	150	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM
Acenaphthylene	94	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM
Anthracene	340	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM
Benzo(a)anthracene	1,600	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM
Benzo(a)pyrene	1,900	1,800		µg/Kg-dry	5	9/23/2011 7:09 PM
Benzo(b)fluoranthene	3,400	1,800	m	µg/Kg-dry	5	9/23/2011 7:09 PM
Benzo(g,h,i)perylene	1,000	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 11:07:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-015	**Matrix:**	Sediment
Client Sample ID:	MW-11-15		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,200	1,800	Jm	µg/Kg-dry	5	9/23/2011 7:09 PM
Chrysene	2,300	1,800		µg/Kg-dry	5	9/23/2011 7:09 PM
Dibenzo (a,h) anthracene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:09 PM
Fluoranthene	3,900	1,800		µg/Kg-dry	5	9/23/2011 7:09 PM
Fluorene	210	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM
Indeno(1,2,3-cd)pyrene	920	1,800	J	µg/Kg-dry	5	9/23/2011 7:09 PM
Naphthalene	ND	1,800	U	µg/Kg-dry	5	9/23/2011 7:09 PM
Phenanthrene	1,900	1,800		µg/Kg-dry	5	9/23/2011 7:09 PM
Pyrene	4,000	1,800		µg/Kg-dry	5	9/23/2011 7:09 PM
Surr: 2-Fluorobiphenyl	76.6	45-105		%REC	5	9/23/2011 7:09 PM
Surr: Nitrobenzene-d5	67.6	35-100		%REC	5	9/23/2011 7:09 PM
Surr: Terphenyl-d14	100	30-125		%REC	5	9/23/2011 7:09 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	44	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	56	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	710	33		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	5,200	410		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	190,000	10,000		mg/Kg-dry	227.272 7273	9/3/2011 12:00 PM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	50	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	71,000	8,700		mg/Kg	1	9/2/2011 2:03 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:43:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-016	**Matrix:**	Sediment
Client Sample ID:	MW-11-16		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,800	150		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	4.0	5.2	J	µg/Kg-dry	2	9/14/2011 11:07 PM
4,4'-DDE	5.5	2.5		µg/Kg-dry	2	9/14/2011 11:07 PM
4,4'-DDT	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Aldrin	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
alpha-BHC	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
alpha-Chlordane	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
beta-BHC	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Chlordane (Technical)	ND	51	U	µg/Kg-dry	2	9/14/2011 11:07 PM
delta-BHC	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Dieldrin	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Endosulfan I	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Endosulfan II	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Endosulfan sulfate	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Endrin	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Endrin aldehyde	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Endrin ketone	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
gamma-BHC	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
gamma-Chlordane	4.4	2.5		µg/Kg-dry	2	9/14/2011 11:07 PM
Heptachlor	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Heptachlor epoxide	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Methoxychlor	ND	2.5	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Toxaphene	ND	51	U	µg/Kg-dry	2	9/14/2011 11:07 PM
Surr: Decachlorobiphenyl	91.5	55-130		%REC	2	9/14/2011 11:07 PM
Surr: Tetrachloro-m-xylene	92.8	70-125		%REC	2	9/14/2011 11:07 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	50	U	µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1221	ND	50	U	µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1232	ND	50	U	µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1242	360	50		µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1248	ND	50	U	µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1254	150	50		µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1260	23	50	J	µg/Kg-dry	1	9/13/2011 10:44 PM
Aroclor 1262	ND	50	U	µg/Kg-dry	1	9/13/2011 10:44 PM
Total PCBs	530	50		µg/Kg-dry	1	9/13/2011 10:44 PM
Surr: Decachlorobiphenyl	99.2	60-125		%REC	1	9/13/2011 10:44 PM
Surr: Tetrachloro-m-xylene	109	60-125		%REC	1	9/13/2011 10:44 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:43:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-016	**Matrix:**	Sediment
Client Sample ID:	MW-11-16		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	13.3			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.60				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	1,200	150		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	1.5	U	mg/Kg-dry	1	9/7/2011 5:31 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	2,300	240		µg/Kg-dry	20	9/6/2011 3:09 PM
Barium	86,000	1,200		µg/Kg-dry	20	9/6/2011 3:09 PM
Cadmium	930	470		µg/Kg-dry	20	9/6/2011 3:09 PM
Chromium	34,000	590		µg/Kg-dry	20	9/6/2011 3:09 PM
Copper	29,000	470		µg/Kg-dry	20	9/6/2011 3:09 PM
Iron	6,000,000	470,000		µg/Kg-dry	400	9/6/2011 5:10 PM
Lead	140,000	240		µg/Kg-dry	20	9/6/2011 3:09 PM
Manganese	250,000	47,000		µg/Kg-dry	400	9/6/2011 5:10 PM
Nickel	11,000	2,400		µg/Kg-dry	20	9/6/2011 3:09 PM
Selenium	460	1,200	J	µg/Kg-dry	20	9/6/2011 3:09 PM
Zinc	180,000	2,400		µg/Kg-dry	20	9/6/2011 3:09 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	1,000	43		µg/Kg-dry	10	9/2/2011 7:24 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	110	52		µg/Kg-dry	1	9/13/2011 3:30 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	110	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Acenaphthene	900	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Acenaphthylene	63	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Anthracene	870	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Benzo(a)anthracene	3,200	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Benzo(a)pyrene	3,400	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Benzo(b)fluoranthene	5,400	1,200	m	µg/Kg-dry	5	9/23/2011 7:32 PM
Benzo(g,h,i)perylene	1,500	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:43:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-016	**Matrix:**	Sediment
Client Sample ID:	MW-11-16		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	2,000	1,200	m	µg/Kg-dry	5	9/23/2011 7:32 PM
Chrysene	4,200	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Dibenzo (a,h) anthracene	350	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Fluoranthene	7,600	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Fluorene	770	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Indeno(1,2,3-cd)pyrene	1,400	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Naphthalene	370	1,200	J	µg/Kg-dry	5	9/23/2011 7:32 PM
Phenanthrene	6,500	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Pyrene	7,800	1,200		µg/Kg-dry	5	9/23/2011 7:32 PM
Surr: 2-Fluorobiphenyl	57.6	45-105		%REC	5	9/23/2011 7:32 PM
Surr: Nitrobenzene-d5	51.0	35-100		%REC	5	9/23/2011 7:32 PM
Surr: Terphenyl-d14	79.8	30-125		%REC	5	9/23/2011 7:32 PM
Physical Kit		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids and/or Moisture						
Percent Solids	66	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	34	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit		**Method: E350.1**				**Analyst: JE**
Ammonia						
Nitrogen, Ammonia	330	24		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	1,300	140		mg/Kg-dry	5	9/1/2011 12:30 PM
Organic Indicators Kit		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand, COD						
Chemical Oxygen Demand	26,000	6,200		mg/Kg-dry	204.9180328	9/3/2011 12:00 PM
Organic Indicators Kit		**Method: A2540G**				**Analyst: NK**
Total, Fixed and Volatile Solids in Solids						
Total Volatile Solids	5.8	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit		**Method: SW9060**				**Analyst: NK**
Total Organic Carbon						
Organic Carbon, Total	44,000	8,300		mg/Kg	1	9/2/2011 2:22 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 2:23:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-017	**Matrix:**	Sediment
Client Sample ID:	MW-11-17		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	3,600	250		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	3.5	8.4	J	µg/Kg-dry	2	9/14/2011 11:52 PM
4,4'-DDE	7.7	4.1		µg/Kg-dry	2	9/14/2011 11:52 PM
4,4'-DDT	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Aldrin	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
alpha-BHC	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
alpha-Chlordane	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
beta-BHC	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Chlordane (Technical)	ND	83	U	µg/Kg-dry	2	9/14/2011 11:52 PM
delta-BHC	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Dieldrin	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Endosulfan I	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Endosulfan II	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Endosulfan sulfate	10	4.1		µg/Kg-dry	2	9/14/2011 11:52 PM
Endrin	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Endrin aldehyde	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Endrin ketone	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
gamma-BHC	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
gamma-Chlordane	8.6	4.1		µg/Kg-dry	2	9/14/2011 11:52 PM
Heptachlor	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Heptachlor epoxide	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Methoxychlor	ND	4.1	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Toxaphene	ND	83	U	µg/Kg-dry	2	9/14/2011 11:52 PM
Surr: Decachlorobiphenyl	37.4	55-130	S	%REC	2	9/14/2011 11:52 PM
Surr: Tetrachloro-m-xylene	37.3	70-125	S	%REC	2	9/14/2011 11:52 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	82	U	µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1221	ND	82	U	µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1232	ND	82	U	µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1242	250	82		µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1248	ND	82	U	µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1254	ND	82	U	µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1260	270	82		µg/Kg-dry	1	9/13/2011 11:18 PM
Aroclor 1262	ND	82	U	µg/Kg-dry	1	9/13/2011 11:18 PM
Total PCBs	510	82		µg/Kg-dry	1	9/13/2011 11:18 PM
Surr: Decachlorobiphenyl	64.6	60-125		%REC	1	9/13/2011 11:18 PM
Surr: Tetrachloro-m-xylene	99.1	60-125		%REC	1	9/13/2011 11:18 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 2:23:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-017	**Matrix:**	Sediment
Client Sample ID:	MW-11-17		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	10.8			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.29				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	1,100	240		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	0.99	2.5	J	mg/Kg-dry	1	9/7/2011 7:03 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	5,900	280		µg/Kg-dry	20	9/6/2011 3:11 PM
Barium	120,000	1,400		µg/Kg-dry	20	9/6/2011 3:11 PM
Cadmium	2,000	560		µg/Kg-dry	20	9/6/2011 3:11 PM
Chromium	60,000	700		µg/Kg-dry	20	9/6/2011 3:11 PM
Copper	85,000	560		µg/Kg-dry	20	9/6/2011 3:11 PM
Iron	19,000,000	560,000		µg/Kg-dry	400	9/6/2011 5:11 PM
Lead	110,000	280		µg/Kg-dry	20	9/6/2011 3:11 PM
Manganese	680,000	56,000		µg/Kg-dry	400	9/6/2011 5:11 PM
Nickel	23,000	2,800		µg/Kg-dry	20	9/6/2011 3:11 PM
Selenium	1,100	1,400	J	µg/Kg-dry	20	9/6/2011 3:11 PM
Zinc	360,000	2,800		µg/Kg-dry	20	9/6/2011 3:11 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	620	73		µg/Kg-dry	10	9/2/2011 7:24 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	200	83		µg/Kg-dry	1	9/13/2011 3:34 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT 3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	2,000	U	µg/Kg-dry	5	9/28/2011 6:50 PM
Acenaphthene	190	2,000	J	µg/Kg-dry	5	9/28/2011 6:50 PM
Acenaphthylene	95	2,000	J	µg/Kg-dry	5	9/28/2011 6:50 PM
Anthracene	540	2,000	J	µg/Kg-dry	5	9/28/2011 6:50 PM
Benzo(a)anthracene	2,800	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Benzo(a)pyrene	3,600	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Benzo(b)fluoranthene	6,200	2,000	m	µg/Kg-dry	5	9/28/2011 6:50 PM
Benzo(g,h,i)perylene	2,300	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 2:23:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-017	**Matrix:**	Sediment
Client Sample ID:	MW-11-17		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	2,000	2,000	m	µg/Kg-dry	5	9/28/2011 6:50 PM
Chrysene	4,400	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Dibenzo (a,h) anthracene	450	2,000	J	µg/Kg-dry	5	9/28/2011 6:50 PM
Fluoranthene	7,300	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Fluorene	280	2,000	J	µg/Kg-dry	5	9/28/2011 6:50 PM
Indeno(1,2,3-cd)pyrene	2,100	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Naphthalene	ND	2,000	U	µg/Kg-dry	5	9/28/2011 6:50 PM
Phenanthrene	3,300	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Pyrene	6,900	2,000		µg/Kg-dry	5	9/28/2011 6:50 PM
Surr: 2-Fluorobiphenyl	88.4	45-105		%REC	5	9/28/2011 6:50 PM
Surr: Nitrobenzene-d5	75.4	35-100		%REC	5	9/28/2011 6:50 PM
Surr: Terphenyl-d14	113	30-125		%REC	5	9/28/2011 6:50 PM
Physical Kit		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids and/or Moisture						
Percent Solids	40	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	60	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit		**Method: E350.1**				**Analyst: JE**
Ammonia						
Nitrogen, Ammonia	570	37		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	4,400	450		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand, COD						
Chemical Oxygen Demand	210,000	9,600		mg/Kg-dry	193.798 4496	9/3/2011 12:00 PM
Organic Indicators Kit		**Method: A2540G**				**Analyst: NK**
Total, Fixed and Volatile Solids in Solids						
Total Volatile Solids	12	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit		**Method: SW9060**				**Analyst: NK**
Total Organic Carbon						
Organic Carbon, Total	92,000	8,400		mg/Kg	1	9/2/2011 2:41 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 2:28:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-018	**Matrix:**	Sediment
Client Sample ID:	MW-11-18		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	360	210		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	8.9	17	J	µg/Kg-dry	5	9/15/2011 12:38 AM
4,4'-DDE	18	8.5		µg/Kg-dry	5	9/15/2011 12:38 AM
4,4'-DDT	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Aldrin	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
alpha-BHC	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
alpha-Chlordane	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
beta-BHC	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Chlordane (Technical)	ND	170	U	µg/Kg-dry	5	9/15/2011 12:38 AM
delta-BHC	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Dieldrin	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Endosulfan I	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Endosulfan II	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Endosulfan sulfate	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Endrin	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Endrin aldehyde	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Endrin ketone	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
gamma-BHC	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
gamma-Chlordane	8.7	8.5		µg/Kg-dry	5	9/15/2011 12:38 AM
Heptachlor	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Heptachlor epoxide	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Methoxychlor	ND	8.5	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Toxaphene	ND	170	U	µg/Kg-dry	5	9/15/2011 12:38 AM
Surr: Decachlorobiphenyl	92.6	55-130		%REC	5	9/15/2011 12:38 AM
Surr: Tetrachloro-m-xylene	88.6	70-125		%REC	5	9/15/2011 12:38 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	68	U	µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1221	ND	68	U	µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1232	ND	68	U	µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1242	340	68		µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1248	ND	68	U	µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1254	190	68		µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1260	68	68		µg/Kg-dry	1	9/13/2011 11:53 PM
Aroclor 1262	ND	68	U	µg/Kg-dry	1	9/13/2011 11:53 PM
Total PCBs	590	68		µg/Kg-dry	1	9/13/2011 11:53 PM
Surr: Decachlorobiphenyl	93.4	60-125		%REC	1	9/13/2011 11:53 PM
Surr: Tetrachloro-m-xylene	99.0	60-125		%REC	1	9/13/2011 11:53 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 2:28:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-018	**Matrix:**	Sediment
Client Sample ID:	MW-11-18		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.6			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.39				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	980	190		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.1	U	mg/Kg-dry	1	9/9/2011 11:28 AM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	6,900	290		µg/Kg-dry	20	9/6/2011 3:12 PM
Barium	130,000	1,500		µg/Kg-dry	20	9/6/2011 3:12 PM
Cadmium	2,600	590		µg/Kg-dry	20	9/6/2011 3:12 PM
Chromium	68,000	740		µg/Kg-dry	20	9/6/2011 3:12 PM
Copper	92,000	590		µg/Kg-dry	20	9/6/2011 3:12 PM
Iron	26,000,000	590,000		µg/Kg-dry	400	9/6/2011 5:12 PM
Lead	130,000	290		µg/Kg-dry	20	9/6/2011 3:12 PM
Manganese	910,000	59,000		µg/Kg-dry	400	9/6/2011 5:12 PM
Nickel	25,000	2,900		µg/Kg-dry	20	9/6/2011 3:12 PM
Selenium	1,000	1,500	J	µg/Kg-dry	20	9/6/2011 3:12 PM
Zinc	360,000	2,900		µg/Kg-dry	20	9/6/2011 3:12 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	810	87		µg/Kg-dry	10	9/2/2011 7:25 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	190	69		µg/Kg-dry	1	9/13/2011 3:36 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT 3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,600	U	µg/Kg-dry	5	9/28/2011 6:26 PM
Acenaphthene	140	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Acenaphthylene	72	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Anthracene	330	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Benzo(a)anthracene	1,500	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Benzo(a)pyrene	2,000	1,600		µg/Kg-dry	5	9/28/2011 6:26 PM
Benzo(b)fluoranthene	3,300	1,600	m	µg/Kg-dry	5	9/28/2011 6:26 PM
Benzo(g,h,i)perylene	1,300	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 2:28:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-018	**Matrix:**	Sediment
Client Sample ID:	MW-11-18		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,200	1,600	Jm	µg/Kg-dry	5	9/28/2011 6:26 PM
Chrysene	2,500	1,600		µg/Kg-dry	5	9/28/2011 6:26 PM
Dibenzo (a,h) anthracene	270	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Fluoranthene	4,200	1,600		µg/Kg-dry	5	9/28/2011 6:26 PM
Fluorene	200	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Indeno(1,2,3-cd)pyrene	1,200	1,600	J	µg/Kg-dry	5	9/28/2011 6:26 PM
Naphthalene	ND	1,600	U	µg/Kg-dry	5	9/28/2011 6:26 PM
Phenanthrene	1,900	1,600		µg/Kg-dry	5	9/28/2011 6:26 PM
Pyrene	3,800	1,600		µg/Kg-dry	5	9/28/2011 6:26 PM
Surr: 2-Fluorobiphenyl	71.0	45-105		%REC	5	9/28/2011 6:26 PM
Surr: Nitrobenzene-d5	62.0	35-100		%REC	5	9/28/2011 6:26 PM
Surr: Terphenyl-d14	85.8	30-125		%REC	5	9/28/2011 6:26 PM
Physical Kit		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids and/or Moisture						
Percent Solids	48	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	52	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit		**Method: E350.1**				**Analyst: JE**
Ammonia						
Nitrogen, Ammonia	450	30		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3,000	400		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand, COD						
Chemical Oxygen Demand	170,000	7,500		mg/Kg-dry	182.481 7518	9/3/2011 12:00 PM
Organic Indicators Kit		**Method: A2540G**				**Analyst: NK**
Total, Fixed and Volatile Solids in Solids						
Total Volatile Solids	9.7	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit		**Method: SW9060**				**Analyst: NK**
Total Organic Carbon						
Organic Carbon, Total	77,000	7,100		mg/Kg	1	9/2/2011 3:00 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 3:41:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-019	**Matrix:**	Sediment
Client Sample ID:	MW-11-19		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	550	240		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	6.9	20	J	µg/Kg-dry	5	9/15/2011 1:24 AM
4,4'-DDE	19	10		µg/Kg-dry	5	9/15/2011 1:24 AM
4,4'-DDT	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Aldrin	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
alpha-BHC	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
alpha-Chlordane	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
beta-BHC	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Chlordane (Technical)	ND	200	U	µg/Kg-dry	5	9/15/2011 1:24 AM
delta-BHC	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Dieldrin	7.8	10	J	µg/Kg-dry	5	9/15/2011 1:24 AM
Endosulfan I	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Endosulfan II	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Endosulfan sulfate	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Endrin	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Endrin aldehyde	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Endrin ketone	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
gamma-BHC	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
gamma-Chlordane	14	10		µg/Kg-dry	5	9/15/2011 1:24 AM
Heptachlor	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Heptachlor epoxide	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Methoxychlor	ND	10	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Toxaphene	ND	200	U	µg/Kg-dry	5	9/15/2011 1:24 AM
Surr: Decachlorobiphenyl	86.9	55-130		%REC	5	9/15/2011 1:24 AM
Surr: Tetrachloro-m-xylene	85.2	70-125		%REC	5	9/15/2011 1:24 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	79	U	µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1221	ND	79	U	µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1232	ND	79	U	µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1242	220	79		µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1248	ND	79	U	µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1254	160	79		µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1260	64	79	J	µg/Kg-dry	1	9/14/2011 12:27 AM
Aroclor 1262	ND	79	U	µg/Kg-dry	1	9/14/2011 12:27 AM
Total PCBs	450	79		µg/Kg-dry	1	9/14/2011 12:27 AM
Surr: Decachlorobiphenyl	58.2	60-125	S	%REC	1	9/14/2011 12:27 AM
Surr: Tetrachloro-m-xylene	94.5	60-125		%REC	1	9/14/2011 12:27 AM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 3:41:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-019	**Matrix:**	Sediment
Client Sample ID:	MW-11-19		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.3			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.36				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	3,000	230		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	8.1	2.4		mg/Kg-dry	1	9/9/2011 11:28 AM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	8,400	380		µg/Kg-dry	20	9/6/2011 3:13 PM
Barium	160,000	1,900		µg/Kg-dry	20	9/6/2011 3:13 PM
Cadmium	3,300	750		µg/Kg-dry	20	9/6/2011 3:13 PM
Chromium	89,000	940		µg/Kg-dry	20	9/6/2011 3:13 PM
Copper	160,000	750		µg/Kg-dry	20	9/6/2011 3:13 PM
Iron	26,000,000	750,000		µg/Kg-dry	400	9/6/2011 5:13 PM
Lead	140,000	380		µg/Kg-dry	20	9/6/2011 3:13 PM
Manganese	810,000	75,000		µg/Kg-dry	400	9/6/2011 5:13 PM
Nickel	29,000	3,800		µg/Kg-dry	20	9/6/2011 3:13 PM
Selenium	1,300	1,900	J	µg/Kg-dry	20	9/6/2011 3:13 PM
Zinc	510,000	3,800		µg/Kg-dry	20	9/6/2011 3:13 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	990	79		µg/Kg-dry	10	9/2/2011 7:26 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	280	76		µg/Kg-dry	1	9/13/2011 3:37 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT 3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Acenaphthene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Acenaphthylene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Anthracene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Benzo(a)anthracene	51	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Benzo(a)pyrene	59	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Benzo(b)fluoranthene	87	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Benzo(g,h,i)perylene	42	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 3:41:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-019	**Matrix:**	Sediment
Client Sample ID:	MW-11-19		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	43	380	Jm	µg/Kg-dry	1	9/28/2011 7:13 PM
Chrysene	58	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Dibenzo (a,h) anthracene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Fluoranthene	67	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Fluorene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Indeno(1,2,3-cd)pyrene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Naphthalene	ND	380	U	µg/Kg-dry	1	9/28/2011 7:13 PM
Phenanthrene	23	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Pyrene	72	380	J	µg/Kg-dry	1	9/28/2011 7:13 PM
Surr: 2-Fluorobiphenyl	103	45-105		%REC	1	9/28/2011 7:13 PM
Surr: Nitrobenzene-d5	109	35-100	S	%REC	1	9/28/2011 7:13 PM
Surr: Terphenyl-d14	120	30-125		%REC	1	9/28/2011 7:13 PM
Physical Kit		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids and/or Moisture						
Percent Solids	41	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	59	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit		**Method: E350.1**				**Analyst: JE**
Ammonia						
Nitrogen, Ammonia	640	38		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	5,100	420		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand, COD						
Chemical Oxygen Demand	220,000	9,700		mg/Kg-dry	200.803 2129	9/3/2011 12:00 PM
Organic Indicators Kit		**Method: A2540G**				**Analyst: NK**
Total, Fixed and Volatile Solids in Solids						
Total Volatile Solids	10	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit		**Method: SW9060**				**Analyst: NK**
Total Organic Carbon						
Organic Carbon, Total	75,000	8,100		mg/Kg	1	9/2/2011 3:20 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 6:36:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-020	**Matrix:**	Sediment
Client Sample ID:	MW-11-20		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	1,900	260		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	8.4	22	J	µg/Kg-dry	5	9/15/2011 2:10 AM
4,4'-DDE	26	11		µg/Kg-dry	5	9/15/2011 2:10 AM
4,4'-DDT	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Aldrin	7.1	11	J	µg/Kg-dry	5	9/15/2011 2:10 AM
alpha-BHC	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
alpha-Chlordane	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
beta-BHC	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Chlordane (Technical)	ND	220	U	µg/Kg-dry	5	9/15/2011 2:10 AM
delta-BHC	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Dieldrin	12	11		µg/Kg-dry	5	9/15/2011 2:10 AM
Endosulfan I	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Endosulfan II	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Endosulfan sulfate	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Endrin	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Endrin aldehyde	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Endrin ketone	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
gamma-BHC	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
gamma-Chlordane	16	11	m	µg/Kg-dry	5	9/15/2011 2:10 AM
Heptachlor	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Heptachlor epoxide	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Methoxychlor	ND	11	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Toxaphene	ND	220	U	µg/Kg-dry	5	9/15/2011 2:10 AM
Surr: Decachlorobiphenyl	78.2	55-130		%REC	5	9/15/2011 2:10 AM
Surr: Tetrachloro-m-xylene	82.7	70-125		%REC	5	9/15/2011 2:10 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	85	U	µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1221	ND	85	U	µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1232	ND	85	U	µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1242	370	85		µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1248	ND	85	U	µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1254	320	85		µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1260	180	85		µg/Kg-dry	1	9/14/2011 1:01 AM
Aroclor 1262	ND	85	U	µg/Kg-dry	1	9/14/2011 1:01 AM
Total PCBs	870	85		µg/Kg-dry	1	9/14/2011 1:01 AM
Surr: Decachlorobiphenyl	67.7	60-125		%REC	1	9/14/2011 1:01 AM
Surr: Tetrachloro-m-xylene	95.1	60-125		%REC	1	9/14/2011 1:01 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 6:36:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-020	**Matrix:**	Sediment
Client Sample ID:	MW-11-20		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	10.9			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.31				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	1,300	240		mg/Kg-dry	50	8/31/2011 4:55 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	1.0	2.6	J	mg/Kg-dry	1	9/9/2011 11:28 AM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	7,800	350		µg/Kg-dry	20	9/6/2011 3:15 PM
Barium	150,000	1,700		µg/Kg-dry	20	9/6/2011 3:15 PM
Cadmium	2,900	700		µg/Kg-dry	20	9/6/2011 3:15 PM
Chromium	87,000	870		µg/Kg-dry	20	9/6/2011 3:15 PM
Copper	170,000	700		µg/Kg-dry	20	9/6/2011 3:15 PM
Iron	25,000,000	700,000		µg/Kg-dry	400	9/6/2011 5:13 PM
Lead	130,000	350		µg/Kg-dry	20	9/6/2011 3:15 PM
Manganese	800,000	70,000		µg/Kg-dry	400	9/6/2011 5:13 PM
Nickel	28,000	3,500		µg/Kg-dry	20	9/6/2011 3:15 PM
Selenium	1,400	1,700	J	µg/Kg-dry	20	9/6/2011 3:15 PM
Zinc	510,000	3,500		µg/Kg-dry	20	9/6/2011 3:15 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	890	72		µg/Kg-dry	10	9/2/2011 7:27 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	280	80		µg/Kg-dry	1	9/13/2011 3:42 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT 3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	2,100	UH	µg/Kg-dry	5	10/11/2011 3:39 PM
Acenaphthene	98	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Acenaphthylene	77	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Anthracene	290	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Benzo(a)anthracene	1,700	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Benzo(a)pyrene	2,100	2,100	H	µg/Kg-dry	5	10/11/2011 3:39 PM
Benzo(b)fluoranthene	3,600	2,100	mH	µg/Kg-dry	5	10/11/2011 3:39 PM
Benzo(g,h,i)perylene	1,800	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 6:36:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-020	**Matrix:**	Sediment
Client Sample ID:	MW-11-20		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	1,300	2,100	JmH	µg/Kg-dry	5	10/11/2011 3:39 PM
Chrysene	2,700	2,100	H	µg/Kg-dry	5	10/11/2011 3:39 PM
Dibenzo (a,h) anthracene	ND	2,100	mUH	µg/Kg-dry	5	10/11/2011 3:39 PM
Fluoranthene	3,900	2,100	H	µg/Kg-dry	5	10/11/2011 3:39 PM
Fluorene	120	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Indeno(1,2,3-cd)pyrene	1,500	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Naphthalene	ND	2,100	UH	µg/Kg-dry	5	10/11/2011 3:39 PM
Phenanthrene	1,300	2,100	JH	µg/Kg-dry	5	10/11/2011 3:39 PM
Pyrene	3,700	2,100	H	µg/Kg-dry	5	10/11/2011 3:39 PM
Surr: 2-Fluorobiphenyl	64.0	45-105	H	%REC	5	10/11/2011 3:39 PM
Surr: Nitrobenzene-d5	60.8	35-100	H	%REC	5	10/11/2011 3:39 PM
Surr: Terphenyl-d14	79.6	30-125	H	%REC	5	10/11/2011 3:39 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	39	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	61	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	530	40		mg/Kg-dry	5	8/30/2011 9:30 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	3,900	460		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	210,000	11,000		mg/Kg-dry	223.214 2857	9/3/2011 12:00 PM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	11	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	77,000	8,800		mg/Kg	1	9/2/2011 3:36 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 6:40:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-021	**Matrix:**	Sediment
Client Sample ID:	MW-11-21		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	810	220		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	ND	7.4	U	µg/Kg-dry	2	9/22/2011 6:40 AM
4,4'-DDE	15	3.6		µg/Kg-dry	2	9/22/2011 6:40 AM
4,4'-DDT	14	3.6		µg/Kg-dry	2	9/22/2011 6:40 AM
Aldrin	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
alpha-BHC	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
alpha-Chlordane	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
beta-BHC	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Chlordane (Technical)	ND	73	U	µg/Kg-dry	2	9/22/2011 6:40 AM
delta-BHC	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Dieldrin	7.2	3.6		µg/Kg-dry	2	9/22/2011 6:40 AM
Endosulfan I	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Endosulfan II	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Endosulfan sulfate	2.9	3.6	J	µg/Kg-dry	2	9/22/2011 6:40 AM
Endrin	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Endrin aldehyde	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Endrin ketone	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
gamma-BHC	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
gamma-Chlordane	5.8	3.6		µg/Kg-dry	2	9/22/2011 6:40 AM
Heptachlor	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Heptachlor epoxide	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Methoxychlor	ND	3.6	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Toxaphene	ND	73	U	µg/Kg-dry	2	9/22/2011 6:40 AM
Surr: Decachlorobiphenyl	86.7	55-130		%REC	2	9/22/2011 6:40 AM
Surr: Tetrachloro-m-xylene	74.2	70-125		%REC	2	9/22/2011 6:40 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	72	U	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1221	ND	72	U	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1232	ND	72	U	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1242	66	72	J	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1248	ND	72	U	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1254	ND	72	U	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1260	19	72	J	µg/Kg-dry	1	9/21/2011 11:46 PM
Aroclor 1262	ND	72	U	µg/Kg-dry	1	9/21/2011 11:46 PM
Total PCBs	85	72		µg/Kg-dry	1	9/21/2011 11:46 PM
Surr: Decachlorobiphenyl	100	60-125		%REC	1	9/21/2011 11:46 PM
Surr: Tetrachloro-m-xylene	85.7	60-125		%REC	1	9/21/2011 11:46 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 6:40:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-021	**Matrix:**	Sediment
Client Sample ID:	MW-11-21		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.8			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.41				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	2,000	210		mg/Kg-dry	50	8/31/2011 3:33 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	ND	2.2	U	mg/Kg-dry	1	9/9/2011 11:28 AM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	9,000	340		µg/Kg-dry	20	9/6/2011 3:16 PM
Barium	160,000	1,700		µg/Kg-dry	20	9/6/2011 3:16 PM
Cadmium	3,900	690		µg/Kg-dry	20	9/6/2011 3:16 PM
Chromium	100,000	860		µg/Kg-dry	20	9/6/2011 3:16 PM
Copper	170,000	690		µg/Kg-dry	20	9/6/2011 3:16 PM
Iron	27,000,000	690,000		µg/Kg-dry	400	9/6/2011 5:14 PM
Lead	170,000	340		µg/Kg-dry	20	9/6/2011 3:16 PM
Manganese	770,000	69,000		µg/Kg-dry	400	9/6/2011 5:14 PM
Nickel	31,000	3,400		µg/Kg-dry	20	9/6/2011 3:16 PM
Selenium	1,200	1,700	J	µg/Kg-dry	20	9/6/2011 3:16 PM
Zinc	540,000	3,400		µg/Kg-dry	20	9/6/2011 3:16 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	1,100	82		µg/Kg-dry	10	9/2/2011 7:27 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	310	66		µg/Kg-dry	1	9/13/2011 3:43 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	19	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Acenaphthene	56	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Acenaphthylene	44	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Anthracene	140	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Benzo(a)anthracene	970	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Benzo(a)pyrene	1,100	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Benzo(b)fluoranthene	2,100	350	mH	µg/Kg-dry	1	10/19/2011 5:13 PM
Benzo(g,h,i)perylene	450	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 6:40:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-021	**Matrix:**	Sediment
Client Sample ID:	MW-11-21		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	750	350	mH	µg/Kg-dry	1	10/19/2011 5:13 PM
Chrysene	1,400	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Dibenzo (a,h) anthracene	130	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Fluoranthene	2,400	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Fluorene	69	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Indeno(1,2,3-cd)pyrene	420	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Naphthalene	21	350	JH	µg/Kg-dry	1	10/19/2011 5:13 PM
Phenanthrene	710	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Pyrene	1,900	350	H	µg/Kg-dry	1	10/19/2011 5:13 PM
Surr: 2-Fluorobiphenyl	72.5	45-105	H	%REC	1	10/19/2011 5:13 PM
Surr: Nitrobenzene-d5	83.8	35-100	H	%REC	1	10/19/2011 5:13 PM
Surr: Terphenyl-d14	94.1	30-125	H	%REC	1	10/19/2011 5:13 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	46	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	54	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	780	34		mg/Kg-dry	5	8/30/2011 9:45 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	4,400	380		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	160,000	8,200		mg/Kg-dry	187.2659176	9/3/2011 12:00 PM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	11	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	75,000	8,400		mg/Kg	1	9/2/2011 3:56 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 5:10:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-022	**Matrix:**	Sediment
Client Sample ID:	MW-11-22		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	840	230		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	3.3	7.8	J	µg/Kg-dry	2	9/22/2011 7:41 PM
4,4'-DDE	10	3.8		µg/Kg-dry	2	9/22/2011 7:41 PM
4,4'-DDT	16	3.8		µg/Kg-dry	2	9/22/2011 7:41 PM
Aldrin	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
alpha-BHC	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
alpha-Chlordane	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
beta-BHC	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Chlordane (Technical)	ND	76	U	µg/Kg-dry	2	9/22/2011 7:41 PM
delta-BHC	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Dieldrin	4.9	3.8		µg/Kg-dry	2	9/22/2011 7:41 PM
Endosulfan I	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Endosulfan II	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Endosulfan sulfate	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Endrin	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Endrin aldehyde	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Endrin ketone	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
gamma-BHC	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
gamma-Chlordane	4.6	3.8		µg/Kg-dry	2	9/22/2011 7:41 PM
Heptachlor	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Heptachlor epoxide	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Methoxychlor	ND	3.8	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Toxaphene	ND	76	U	µg/Kg-dry	2	9/22/2011 7:41 PM
Surr: Decachlorobiphenyl	80.7	55-130		%REC	2	9/22/2011 7:41 PM
Surr: Tetrachloro-m-xylene	70.4	70-125		%REC	2	9/22/2011 7:41 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	76	U	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1221	ND	76	U	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1232	ND	76	U	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1242	56	76	J	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1248	ND	76	U	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1254	ND	76	U	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1260	29	76	J	µg/Kg-dry	1	9/22/2011 12:20 AM
Aroclor 1262	ND	76	U	µg/Kg-dry	1	9/22/2011 12:20 AM
Total PCBs	85	76		µg/Kg-dry	1	9/22/2011 12:20 AM
Surr: Decachlorobiphenyl	104	60-125		%REC	1	9/22/2011 12:20 AM
Surr: Tetrachloro-m-xylene	89.9	60-125		%REC	1	9/22/2011 12:20 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 5:10:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-022	**Matrix:**	Sediment
Client Sample ID:	MW-11-22		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.3			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.35				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	1,000	220		mg/Kg-dry	50	8/31/2011 3:33 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	9.8	2.3		mg/Kg-dry	1	9/9/2011 11:31 AM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	9,800	250		µg/Kg-dry	20	9/6/2011 3:18 PM
Barium	140,000	1,300		µg/Kg-dry	20	9/6/2011 3:18 PM
Cadmium	4,500	500		µg/Kg-dry	20	9/6/2011 3:18 PM
Chromium	99,000	630		µg/Kg-dry	20	9/6/2011 3:18 PM
Copper	160,000	500		µg/Kg-dry	20	9/6/2011 3:18 PM
Iron	20,000,000	500,000		µg/Kg-dry	400	9/6/2011 5:15 PM
Lead	140,000	250		µg/Kg-dry	20	9/6/2011 3:18 PM
Manganese	600,000	50,000		µg/Kg-dry	400	9/6/2011 5:15 PM
Nickel	28,000	2,500		µg/Kg-dry	20	9/6/2011 3:18 PM
Selenium	2,500	1,300		µg/Kg-dry	20	9/6/2011 3:18 PM
Zinc	470,000	2,500		µg/Kg-dry	20	9/6/2011 3:18 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	820	73		µg/Kg-dry	10	9/2/2011 7:28 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	410	77		µg/Kg-dry	1	9/13/2011 3:45 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT 3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	1,800	UH	µg/Kg-dry	5	10/18/2011 2:10 PM
Acenaphthene	140	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Acenaphthylene	80	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Anthracene	350	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Benzo(a)anthracene	1,700	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Benzo(a)pyrene	1,900	1,800	H	µg/Kg-dry	5	10/18/2011 2:10 PM
Benzo(b)fluoranthene	3,600	1,800	mH	µg/Kg-dry	5	10/18/2011 2:10 PM
Benzo(g,h,i)perylene	890	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 5:10:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-022	**Matrix:**	Sediment
Client Sample ID:	MW-11-22		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	2,000	1,800	mH	µg/Kg-dry	5	10/18/2011 2:10 PM
Chrysene	2,400	1,800	H	µg/Kg-dry	5	10/18/2011 2:10 PM
Dibenzo (a,h) anthracene	ND	1,800	UH	µg/Kg-dry	5	10/18/2011 2:10 PM
Fluoranthene	4,100	1,800	H	µg/Kg-dry	5	10/18/2011 2:10 PM
Fluorene	160	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Indeno(1,2,3-cd)pyrene	810	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Naphthalene	ND	1,800	UH	µg/Kg-dry	5	10/18/2011 2:10 PM
Phenanthrene	1,400	1,800	JH	µg/Kg-dry	5	10/18/2011 2:10 PM
Pyrene	4,200	1,800	H	µg/Kg-dry	5	10/18/2011 2:10 PM
Surr: 2-Fluorobiphenyl	54.6	45-105	H	%REC	5	10/18/2011 2:10 PM
Surr: Nitrobenzene-d5	54.0	35-100	H	%REC	5	10/18/2011 2:10 PM
Surr: Terphenyl-d14	89.0	30-125	H	%REC	5	10/18/2011 2:10 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	44	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	56	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	510	36		mg/Kg-dry	5	8/30/2011 9:45 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	3,700	440		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	200,000	8,600		mg/Kg-dry	186.567 1642	9/3/2011 12:00 PM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	10	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	75,000	6,400		mg/Kg	1	9/2/2011 4:14 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 5:39:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-023	**Matrix:**	Sediment
Client Sample ID:	MW-11-23		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organic Indicators Kit		**Method: 9071B**		**SW3540C**		**Analyst: RR1**
Hexane Extractable Materials (HEM)						
Oil & Grease, Total	2,200	230		mg/Kg-dry	1	9/3/2011 12:00 AM
Organochlorine Pesticides		**Method: SW8081A**		**SW3550C**		**Analyst: MB**
4,4'-DDD	4.2	8.1	J	µg/Kg-dry	2	9/22/2011 8:27 PM
4,4'-DDE	9.9	3.9		µg/Kg-dry	2	9/22/2011 8:27 PM
4,4'-DDT	12	3.9		µg/Kg-dry	2	9/22/2011 8:27 PM
Aldrin	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
alpha-BHC	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
alpha-Chlordane	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
beta-BHC	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Chlordane (Technical)	ND	79	U	µg/Kg-dry	2	9/22/2011 8:27 PM
delta-BHC	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Dieldrin	4.5	3.9		µg/Kg-dry	2	9/22/2011 8:27 PM
Endosulfan I	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Endosulfan II	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Endosulfan sulfate	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Endrin	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Endrin aldehyde	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Endrin ketone	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
gamma-BHC	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
gamma-Chlordane	3.8	3.9	J	µg/Kg-dry	2	9/22/2011 8:27 PM
Heptachlor	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Heptachlor epoxide	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Methoxychlor	ND	3.9	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Toxaphene	ND	79	U	µg/Kg-dry	2	9/22/2011 8:27 PM
Surr: Decachlorobiphenyl	103	55-130		%REC	2	9/22/2011 8:27 PM
Surr: Tetrachloro-m-xylene	82.9	70-125		%REC	2	9/22/2011 8:27 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	78	U	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1221	ND	78	U	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1232	ND	78	U	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1242	56	78	J	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1248	ND	78	U	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1254	ND	78	U	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1260	31	78	J	µg/Kg-dry	1	9/22/2011 12:54 AM
Aroclor 1262	ND	78	U	µg/Kg-dry	1	9/22/2011 12:54 AM
Total PCBs	87	78		µg/Kg-dry	1	9/22/2011 12:54 AM
Surr: Decachlorobiphenyl	100	60-125		%REC	1	9/22/2011 12:54 AM
Surr: Tetrachloro-m-xylene	85.4	60-125		%REC	1	9/22/2011 12:54 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 5:39:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-023	**Matrix:**	Sediment
Client Sample ID:	MW-11-23		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Physical Kit		**Method: D6145**				**Analyst: MI**
Sediment in Watersheds						
Density at 20C	11.4			lbs/gal	1	8/30/2011 9:04 AM
Specific Gravity	1.36				1	8/30/2011 9:04 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	1,200	220		mg/Kg-dry	50	8/31/2011 3:33 PM
Organic Indicators Kit		**Method: SW9012A**				**Analyst: AB2**
Cyanide						
Cyanide, Total	1.1	2.4	J	mg/Kg-dry	1	9/9/2011 11:28 AM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	11,000	270		µg/Kg-dry	20	9/6/2011 3:19 PM
Barium	140,000	1,300		µg/Kg-dry	20	9/6/2011 3:19 PM
Cadmium	5,100	540		µg/Kg-dry	20	9/6/2011 3:19 PM
Chromium	97,000	670		µg/Kg-dry	20	9/6/2011 3:19 PM
Copper	180,000	540		µg/Kg-dry	20	9/6/2011 3:19 PM
Iron	25,000,000	540,000		µg/Kg-dry	400	9/6/2011 5:16 PM
Lead	140,000	270		µg/Kg-dry	20	9/6/2011 3:19 PM
Manganese	770,000	54,000		µg/Kg-dry	400	9/6/2011 5:16 PM
Nickel	29,000	2,700		µg/Kg-dry	20	9/6/2011 3:19 PM
Selenium	3,200	1,300		µg/Kg-dry	20	9/6/2011 3:19 PM
Zinc	530,000	2,700		µg/Kg-dry	20	9/6/2011 3:19 PM
Metals Kit - Soil		**Method: 6020A**		**SW3050B**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	650	67		µg/Kg-dry	10	9/2/2011 7:29 PM
Metals Kit - Soil		**Method: 7471A**				**Analyst: AB2**
Mercury						
Mercury	330	65		µg/Kg-dry	1	9/13/2011 3:46 PM
Polynuclear Aromatic Hydrocarbons		**Method: 8270D**		**SW3550C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	380	UH	µg/Kg-dry	1	10/19/2011 5:38 PM
Acenaphthene	24	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM
Acenaphthylene	ND	380	UH	µg/Kg-dry	1	10/19/2011 5:38 PM
Anthracene	61	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM
Benzo(a)anthracene	400	380	H	µg/Kg-dry	1	10/19/2011 5:38 PM
Benzo(a)pyrene	410	380	H	µg/Kg-dry	1	10/19/2011 5:38 PM
Benzo(b)fluoranthene	820	380	mH	µg/Kg-dry	1	10/19/2011 5:38 PM
Benzo(g,h,i)perylene	210	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 5:39:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-023	**Matrix:**	Sediment
Client Sample ID:	MW-11-23		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Benzo(k)fluoranthene	300	380	JmH	µg/Kg-dry	1	10/19/2011 5:38 PM
Chrysene	450	380	H	µg/Kg-dry	1	10/19/2011 5:38 PM
Dibenzo (a,h) anthracene	60	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM
Fluoranthene	900	380	H	µg/Kg-dry	1	10/19/2011 5:38 PM
Fluorene	27	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM
Indeno(1,2,3-cd)pyrene	190	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM
Naphthalene	ND	380	UH	µg/Kg-dry	1	10/19/2011 5:38 PM
Phenanthrene	300	380	JH	µg/Kg-dry	1	10/19/2011 5:38 PM
Pyrene	700	380	H	µg/Kg-dry	1	10/19/2011 5:38 PM
Surr: 2-Fluorobiphenyl	13.3	45-105	SH	%REC	1	10/19/2011 5:38 PM
Surr: Nitrobenzene-d5	13.6	35-100	SH	%REC	1	10/19/2011 5:38 PM
Surr: Terphenyl-d14	14.4	30-125	SH	%REC	1	10/19/2011 5:38 PM
Physical Kit **Percent Solids and/or Moisture**		**Method: ASTM D 2216**				**Analyst: NK**
Percent Solids	42	1.0		%	1	8/31/2011 4:25 PM
PERCENT MOISTURE		**Method: ASTM D 2216**				**Analyst: NK**
Percent Moisture	58	1.0		wt%	1	8/31/2011 4:25 PM
Nutrients Kit **Ammonia**		**Method: E350.1**				**Analyst: JE**
Nitrogen, Ammonia	640	36		mg/Kg-dry	5	8/30/2011 9:45 AM
Nutrients Kit **Total Kjeldahl Nitrogen - TKN**		**Method: E351.2**				**Analyst: JE**
Nitrogen, Kjeldahl, Total	4,400	450		mg/Kg-dry	10	9/1/2011 12:30 PM
Organic Indicators Kit **Chemical Oxygen Demand, COD**		**Method: E410.4**				**Analyst: NK**
Chemical Oxygen Demand	180,000	9,600		mg/Kg-dry	203.252 0325	9/3/2011 12:00 PM
Organic Indicators Kit **Total, Fixed and Volatile Solids in Solids**		**Method: A2540G**				**Analyst: NK**
Total Volatile Solids	10	0.10		%	1	8/31/2011 9:30 AM
Organic Indicators Kit **Total Organic Carbon**		**Method: SW9060**				**Analyst: NK**
Organic Carbon, Total	70,000	7,500		mg/Kg	1	9/2/2011 4:38 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-024	**Matrix:**	Elutriate
Client Sample ID:	MW-11-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Chlordane (Technical)	ND	0.21	U	µg/L	1	9/13/2011 12:29 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 12:29 AM
Toxaphene	ND	0.21	U	µg/L	1	9/13/2011 12:29 AM
Surr: Decachlorobiphenyl	101	30-135		%REC	1	9/13/2011 12:29 AM
Surr: Tetrachloro-m-xylene	91.2	25-140		%REC	1	9/13/2011 12:29 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1221	ND	0.1	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1232	ND	0.2	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1242	ND	0.2	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1248	ND	0.1	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1254	ND	0.2	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1260	ND	0.2	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1262	ND	0.2	U	µg/L	1	9/12/2011 10:21 PM
Aroclor 1268	ND	0.1	U	µg/L	1	9/12/2011 10:21 PM
Total PCBs	ND	0.2	U	µg/L	1	9/12/2011 10:21 PM
Surr: Decachlorobiphenyl	101	40-135		%REC	1	9/12/2011 10:21 PM
Surr: Tetrachloro-m-xylene	115	40-135		%REC	1	9/12/2011 10:21 PM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.13	0.010		mg/L	1	9/1/2011 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-024	**Matrix:**	Elutriate
Client Sample ID:	MW-11-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	2.1	0.60		µg/L	2	9/6/2011 9:41 AM
Barium	190	10		µg/L	2	9/6/2011 9:41 AM
Cadmium	0.19	0.40	J	µg/L	2	9/6/2011 9:41 AM
Chromium	1.7	4.0	J	µg/L	2	9/6/2011 9:41 AM
Copper	1.7	2.0	J	µg/L	2	9/6/2011 9:41 AM
Iron	440	40		µg/L	2	9/6/2011 9:41 AM
Lead	1.2	0.40		µg/L	2	9/6/2011 9:41 AM
Manganese	270	2.0		µg/L	2	9/6/2011 9:41 AM
Nickel	2.0	4.0	J	µg/L	2	9/6/2011 9:41 AM
Selenium	0.99	2.0	J	µg/L	2	9/6/2011 9:41 AM
Zinc	64	20		µg/L	2	9/6/2011 9:41 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	0.18	1.5	J	µg/L	5	9/6/2011 7:40 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:38 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Acenaphthene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Acenaphthylene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Anthracene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 4:41 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 4:41 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 4:41 PM
Benzo(g,h,i)perylene	ND	2.2	U	µg/L	1	9/6/2011 4:41 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 4:41 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 4:41 PM
Dibenz(a,h)anthracene	ND	2.2	U	µg/L	1	9/6/2011 4:41 PM
Fluoranthene	ND	2.2	U	µg/L	1	9/6/2011 4:41 PM
Fluorene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Indeno(1,2,3-cd)pyrene	ND	2.2	U	µg/L	1	9/6/2011 4:41 PM
Naphthalene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Phenanthrene	ND	2.2	U	µg/L	1	9/6/2011 4:41 PM
Pyrene	ND	5.6	U	µg/L	1	9/6/2011 4:41 PM
Surr: 2-Fluorobiphenyl	48.1	50-110	S	%REC	1	9/6/2011 4:41 PM
Surr: Nitrobenzene-d5	61.5	40-110		%REC	1	9/6/2011 4:41 PM
Surr: Terphenyl-d14	83.1	50-135		%REC	1	9/6/2011 4:41 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-024	**Matrix:**	Elutriate
Client Sample ID:	MW-11-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3.5	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	2.2	0.10		mg/L	1	8/31/2011 2:17 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-025	**Matrix:**	Elutriate
Client Sample ID:	MW-11-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 1:15 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 1:15 AM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 1:15 AM
Surr: Decachlorobiphenyl	99.4	30-135		%REC	1	9/13/2011 1:15 AM
Surr: Tetrachloro-m-xylene	85.6	25-140		%REC	1	9/13/2011 1:15 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1221	ND	0.1	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1232	ND	0.2	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1242	ND	0.2	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1248	ND	0.1	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1254	ND	0.2	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1260	ND	0.2	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1262	ND	0.2	U	µg/L	1	9/12/2011 10:50 PM
Aroclor 1268	ND	0.1	U	µg/L	1	9/12/2011 10:50 PM
Total PCBs	ND	0.2	U	µg/L	1	9/12/2011 10:50 PM
Surr: Decachlorobiphenyl	109	40-135		%REC	1	9/12/2011 10:50 PM
Surr: Tetrachloro-m-xylene	110	40-135		%REC	1	9/12/2011 10:50 PM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.056	0.010		mg/L	1	9/1/2011 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-025	**Matrix:**	Elutriate
Client Sample ID:	MW-11-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.5	0.60		µg/L	2	9/6/2011 9:46 AM
Barium	220	10		µg/L	2	9/6/2011 9:46 AM
Cadmium	0.16	0.40	J	µg/L	2	9/6/2011 9:46 AM
Chromium	3.7	4.0	J	µg/L	2	9/6/2011 9:46 AM
Copper	2.3	2.0		µg/L	2	9/6/2011 9:46 AM
Iron	290	40		µg/L	2	9/6/2011 9:46 AM
Lead	1.6	0.40		µg/L	2	9/6/2011 9:46 AM
Manganese	100	2.0		µg/L	2	9/6/2011 9:46 AM
Nickel	2.1	4.0	J	µg/L	2	9/6/2011 9:46 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 9:46 AM
Zinc	86	20		µg/L	2	9/6/2011 9:46 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:40 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:43 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Acenaphthene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Acenaphthylene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Anthracene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 5:51 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 5:51 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 5:51 PM
Benzo(g,h,i)perylene	ND	2.2	U	µg/L	1	9/6/2011 5:51 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 5:51 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 5:51 PM
Dibenz(a,h)anthracene	ND	2.2	U	µg/L	1	9/6/2011 5:51 PM
Fluoranthene	ND	2.2	U	µg/L	1	9/6/2011 5:51 PM
Fluorene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Indeno(1,2,3-cd)pyrene	ND	2.2	U	µg/L	1	9/6/2011 5:51 PM
Naphthalene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Phenanthrene	ND	2.2	U	µg/L	1	9/6/2011 5:51 PM
Pyrene	ND	5.6	U	µg/L	1	9/6/2011 5:51 PM
Surr: 2-Fluorobiphenyl	41.0	50-110	S	%REC	1	9/6/2011 5:51 PM
Surr: Nitrobenzene-d5	48.9	40-110		%REC	1	9/6/2011 5:51 PM
Surr: Terphenyl-d14	79.0	50-135		%REC	1	9/6/2011 5:51 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-025	**Matrix:**	Elutriate
Client Sample ID:	MW-11-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	11	0.40		mg/L	2	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	11	0.10		mg/L	1	8/31/2011 2:24 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-026	**Matrix:**	Elutriate
Client Sample ID:	MW-11-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 2:01 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 2:01 AM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 2:01 AM
Surr: Decachlorobiphenyl	97.9	30-135		%REC	1	9/13/2011 2:01 AM
Surr: Tetrachloro-m-xylene	84.7	25-140		%REC	1	9/13/2011 2:01 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1221	ND	0.1	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1232	ND	0.2	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1242	ND	0.2	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1248	ND	0.1	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1254	ND	0.2	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1260	ND	0.2	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1262	ND	0.2	U	µg/L	1	9/12/2011 11:19 PM
Aroclor 1268	ND	0.1	U	µg/L	1	9/12/2011 11:19 PM
Total PCBs	ND	0.2	U	µg/L	1	9/12/2011 11:19 PM
Surr: Decachlorobiphenyl	111	40-135		%REC	1	9/12/2011 11:19 PM
Surr: Tetrachloro-m-xylene	115	40-135		%REC	1	9/12/2011 11:19 PM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.042	0.010		mg/L	1	9/1/2011 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-026	**Matrix:**	Elutriate
Client Sample ID:	MW-11-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	0.97	0.60		µg/L	2	9/6/2011 9:48 AM
Barium	220	10		µg/L	2	9/6/2011 9:48 AM
Cadmium	0.14	0.40	J	µg/L	2	9/6/2011 9:48 AM
Chromium	1.7	4.0	J	µg/L	2	9/6/2011 9:48 AM
Copper	1.7	2.0	J	µg/L	2	9/6/2011 9:48 AM
Iron	200	40		µg/L	2	9/6/2011 9:48 AM
Lead	0.47	0.40		µg/L	2	9/6/2011 9:48 AM
Manganese	130	2.0		µg/L	2	9/6/2011 9:48 AM
Nickel	1.9	4.0	J	µg/L	2	9/6/2011 9:48 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 9:48 AM
Zinc	81	20		µg/L	2	9/6/2011 9:48 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:41 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:44 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Acenaphthene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Acenaphthylene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Anthracene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/6/2011 6:14 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/6/2011 6:14 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 6:14 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 6:14 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 6:14 PM
Chrysene	ND	1.0	U	µg/L	1	9/6/2011 6:14 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 6:14 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 6:14 PM
Fluorene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 6:14 PM
Naphthalene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 6:14 PM
Pyrene	ND	5.2	U	µg/L	1	9/6/2011 6:14 PM
Surr: 2-Fluorobiphenyl	41.3	50-110	S	%REC	1	9/6/2011 6:14 PM
Surr: Nitrobenzene-d5	47.3	40-110		%REC	1	9/6/2011 6:14 PM
Surr: Terphenyl-d14	83.7	50-135		%REC	1	9/6/2011 6:14 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-026	**Matrix:**	Elutriate
Client Sample ID:	MW-11-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	7.8	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	6.7	0.10		mg/L	1	8/31/2011 2:28 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-027	**Matrix:**	Elutriate
Client Sample ID:	MW-11-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 2:46 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 2:46 AM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 2:46 AM
Surr: Decachlorobiphenyl	117	30-135		%REC	1	9/13/2011 2:46 AM
Surr: Tetrachloro-m-xylene	103	25-140		%REC	1	9/13/2011 2:46 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1221	ND	0.1	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1232	ND	0.2	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1242	ND	0.2	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1248	ND	0.1	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1254	ND	0.2	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1260	ND	0.2	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1262	ND	0.2	U	µg/L	1	9/12/2011 11:48 PM
Aroclor 1268	ND	0.1	U	µg/L	1	9/12/2011 11:48 PM
Total PCBs	ND	0.2	U	µg/L	1	9/12/2011 11:48 PM
Surr: Decachlorobiphenyl	118	40-135		%REC	1	9/12/2011 11:48 PM
Surr: Tetrachloro-m-xylene	122	40-135		%REC	1	9/12/2011 11:48 PM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.087	0.010		mg/L	1	9/1/2011 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-027	**Matrix:**	Elutriate
Client Sample ID:	MW-11-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.4	0.60		µg/L	2	9/6/2011 9:49 AM
Barium	190	10		µg/L	2	9/6/2011 9:49 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 9:49 AM
Chromium	1.2	4.0	J	µg/L	2	9/6/2011 9:49 AM
Copper	1.1	2.0	J	µg/L	2	9/6/2011 9:49 AM
Iron	180	40		µg/L	2	9/6/2011 9:49 AM
Lead	0.38	0.40	J	µg/L	2	9/6/2011 9:49 AM
Manganese	190	2.0		µg/L	2	9/6/2011 9:49 AM
Nickel	1.3	4.0	J	µg/L	2	9/6/2011 9:49 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 9:49 AM
Zinc	55	20		µg/L	2	9/6/2011 9:49 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:42 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:46 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Acenaphthene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Acenaphthylene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Anthracene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 6:37 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 6:37 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 6:37 PM
Benzo(g,h,i)perylene	ND	2.3	U	µg/L	1	9/6/2011 6:37 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 6:37 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 6:37 PM
Dibenz(a,h)anthracene	ND	2.3	U	µg/L	1	9/6/2011 6:37 PM
Fluoranthene	ND	2.3	U	µg/L	1	9/6/2011 6:37 PM
Fluorene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Indeno(1,2,3-cd)pyrene	ND	2.3	U	µg/L	1	9/6/2011 6:37 PM
Naphthalene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Phenanthrene	ND	2.3	U	µg/L	1	9/6/2011 6:37 PM
Pyrene	ND	5.7	U	µg/L	1	9/6/2011 6:37 PM
Surr: 2-Fluorobiphenyl	47.9	50-110	S	%REC	1	9/6/2011 6:37 PM
Surr: Nitrobenzene-d5	52.6	40-110		%REC	1	9/6/2011 6:37 PM
Surr: Terphenyl-d14	74.7	50-135		%REC	1	9/6/2011 6:37 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-027	**Matrix:**	Elutriate
Client Sample ID:	MW-11-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3.1	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	1.4	0.10		mg/L	1	8/31/2011 2:32 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-028	**Matrix:**	Elutriate
Client Sample ID:	MW-11-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
4,4'-DDE	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
4,4'-DDT	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Aldrin	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
alpha-BHC	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
alpha-Chlordane	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
beta-BHC	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Chlordane (Technical)	ND	0.24	U	µg/L	1	9/13/2011 3:32 AM
delta-BHC	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Dieldrin	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Endosulfan I	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Endosulfan II	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Endosulfan sulfate	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Endrin	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Endrin aldehyde	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Endrin ketone	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
gamma-BHC	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
gamma-Chlordane	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Heptachlor	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Heptachlor epoxide	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Methoxychlor	ND	0.012	U	µg/L	1	9/13/2011 3:32 AM
Toxaphene	ND	0.24	U	µg/L	1	9/13/2011 3:32 AM
Surr: Decachlorobiphenyl	106	30-135		%REC	1	9/13/2011 3:32 AM
Surr: Tetrachloro-m-xylene	96.3	25-140		%REC	1	9/13/2011 3:32 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 12:17 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 12:17 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 12:17 AM
Surr: Decachlorobiphenyl	121	40-135		%REC	1	9/13/2011 12:17 AM
Surr: Tetrachloro-m-xylene	127	40-135		%REC	1	9/13/2011 12:17 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.12	0.010		mg/L	1	9/1/2011 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-028	**Matrix:**	Elutriate
Client Sample ID:	MW-11-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	2.0	0.60		µg/L	2	9/6/2011 9:55 AM
Barium	230	10		µg/L	2	9/6/2011 9:55 AM
Cadmium	0.14	0.40	J	µg/L	2	9/6/2011 9:55 AM
Chromium	4.2	4.0		µg/L	2	9/6/2011 9:55 AM
Copper	2.1	2.0		µg/L	2	9/6/2011 9:55 AM
Iron	530	40		µg/L	2	9/6/2011 9:55 AM
Lead	1.7	0.40		µg/L	2	9/6/2011 9:55 AM
Manganese	120	2.0		µg/L	2	9/6/2011 9:55 AM
Nickel	1.4	4.0	J	µg/L	2	9/6/2011 9:55 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 9:55 AM
Zinc	43	20		µg/L	2	9/6/2011 9:55 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:45 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:47 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Acenaphthene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Acenaphthylene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Anthracene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 7:01 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 7:01 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 7:01 PM
Benzo(g,h,i)perylene	ND	2.3	U	µg/L	1	9/6/2011 7:01 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 7:01 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 7:01 PM
Dibenz(a,h)anthracene	ND	2.3	U	µg/L	1	9/6/2011 7:01 PM
Fluoranthene	ND	2.3	U	µg/L	1	9/6/2011 7:01 PM
Fluorene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Indeno(1,2,3-cd)pyrene	ND	2.3	U	µg/L	1	9/6/2011 7:01 PM
Naphthalene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Phenanthrene	ND	2.3	U	µg/L	1	9/6/2011 7:01 PM
Pyrene	ND	5.7	U	µg/L	1	9/6/2011 7:01 PM
Surr: 2-Fluorobiphenyl	42.7	50-110	S	%REC	1	9/6/2011 7:01 PM
Surr: Nitrobenzene-d5	62.5	40-110		%REC	1	9/6/2011 7:01 PM
Surr: Terphenyl-d14	85.8	50-135		%REC	1	9/6/2011 7:01 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-028	**Matrix:**	Elutriate
Client Sample ID:	MW-11-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	2.0	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	0.87	0.10		mg/L	1	8/31/2011 2:37 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-029	**Matrix:**	Elutriate
Client Sample ID:	MW-11-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
4,4'-DDE	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
4,4'-DDT	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Aldrin	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
alpha-BHC	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
alpha-Chlordane	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
beta-BHC	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Chlordane (Technical)	ND	0.25	U	µg/L	1	9/13/2011 4:18 AM
delta-BHC	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Dieldrin	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Endosulfan I	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Endosulfan II	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Endosulfan sulfate	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Endrin	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Endrin aldehyde	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Endrin ketone	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
gamma-BHC	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
gamma-Chlordane	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Heptachlor	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Heptachlor epoxide	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Methoxychlor	ND	0.013	U	µg/L	1	9/13/2011 4:18 AM
Toxaphene	ND	0.25	U	µg/L	1	9/13/2011 4:18 AM
Surr: Decachlorobiphenyl	104	30-135		%REC	1	9/13/2011 4:18 AM
Surr: Tetrachloro-m-xylene	98.0	25-140		%REC	1	9/13/2011 4:18 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1232	ND	0.3	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1242	ND	0.3	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1254	ND	0.3	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1260	ND	0.3	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1262	ND	0.3	U	µg/L	1	9/13/2011 12:47 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 12:47 AM
Total PCBs	ND	0.3	U	µg/L	1	9/13/2011 12:47 AM
Surr: Decachlorobiphenyl	123	40-135		%REC	1	9/13/2011 12:47 AM
Surr: Tetrachloro-m-xylene	123	40-135		%REC	1	9/13/2011 12:47 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.037	0.010		mg/L	1	9/1/2011 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-029	**Matrix:**	Elutriate
Client Sample ID:	MW-11-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	1.0	0.60		µg/L	2	9/6/2011 9:57 AM
Barium	360	10		µg/L	2	9/6/2011 9:57 AM
Cadmium	0.12	0.40	J	µg/L	2	9/6/2011 9:57 AM
Chromium	1.0	4.0	J	µg/L	2	9/6/2011 9:57 AM
Copper	1.9	2.0	J	µg/L	2	9/6/2011 9:57 AM
Iron	150	40		µg/L	2	9/6/2011 9:57 AM
Lead	0.27	0.40	J	µg/L	2	9/6/2011 9:57 AM
Manganese	370	2.0		µg/L	2	9/6/2011 9:57 AM
Nickel	1.7	4.0	J	µg/L	2	9/6/2011 9:57 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 9:57 AM
Zinc	91	20		µg/L	2	9/6/2011 9:57 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:46 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.78	0.20		µg/L	1	9/7/2011 2:49 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Acenaphthene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Acenaphthylene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Anthracene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Benz(a)anthracene	ND	1.2	U	µg/L	1	9/6/2011 7:24 PM
Benzo(a)pyrene	ND	1.2	U	µg/L	1	9/6/2011 7:24 PM
Benzo(b)fluoranthene	ND	1.2	U	µg/L	1	9/6/2011 7:24 PM
Benzo(g,h,i)perylene	ND	2.5	U	µg/L	1	9/6/2011 7:24 PM
Benzo(k)fluoranthene	ND	1.2	U	µg/L	1	9/6/2011 7:24 PM
Chrysene	ND	1.2	U	µg/L	1	9/6/2011 7:24 PM
Dibenz(a,h)anthracene	ND	2.5	U	µg/L	1	9/6/2011 7:24 PM
Fluoranthene	ND	2.5	U	µg/L	1	9/6/2011 7:24 PM
Fluorene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Indeno(1,2,3-cd)pyrene	ND	2.5	U	µg/L	1	9/6/2011 7:24 PM
Naphthalene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Phenanthrene	ND	2.5	U	µg/L	1	9/6/2011 7:24 PM
Pyrene	ND	6.2	U	µg/L	1	9/6/2011 7:24 PM
Surr: 2-Fluorobiphenyl	51.0	50-110		%REC	1	9/6/2011 7:24 PM
Surr: Nitrobenzene-d5	64.4	40-110		%REC	1	9/6/2011 7:24 PM
Surr: Terphenyl-d14	86.4	50-135		%REC	1	9/6/2011 7:24 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-029	**Matrix:**	Elutriate
Client Sample ID:	MW-11-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	6.5	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	5.6	0.10		mg/L	1	8/31/2011 2:45 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-030	**Matrix:**	Elutriate
Client Sample ID:	MW-11-07		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 5:04 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
gamma-Chlordane	0.013	0.011		µg/L	1	9/13/2011 5:04 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 5:04 AM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 5:04 AM
Surr: Decachlorobiphenyl	103	30-135		%REC	1	9/13/2011 5:04 AM
Surr: Tetrachloro-m-xylene	95.4	25-140		%REC	1	9/13/2011 5:04 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 1:16 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 1:16 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 1:16 AM
Surr: Decachlorobiphenyl	120	40-135		%REC	1	9/13/2011 1:16 AM
Surr: Tetrachloro-m-xylene	121	40-135		%REC	1	9/13/2011 1:16 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.015	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-030	**Matrix:**	Elutriate
Client Sample ID:	MW-11-07		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	0.80	0.60		µg/L	2	9/6/2011 9:58 AM
Barium	300	10		µg/L	2	9/6/2011 9:58 AM
Cadmium	0.13	0.40	J	µg/L	2	9/6/2011 9:58 AM
Chromium	0.75	4.0	J	µg/L	2	9/6/2011 9:58 AM
Copper	1.9	2.0	J	µg/L	2	9/6/2011 9:58 AM
Iron	84	40		µg/L	2	9/6/2011 9:58 AM
Lead	0.37	0.40	J	µg/L	2	9/6/2011 9:58 AM
Manganese	200	2.0		µg/L	2	9/6/2011 9:58 AM
Nickel	1.6	4.0	J	µg/L	2	9/6/2011 9:58 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 9:58 AM
Zinc	70	20		µg/L	2	9/6/2011 9:58 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:46 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:53 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Acenaphthene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Acenaphthylene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Anthracene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 7:47 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 7:47 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 7:47 PM
Benzo(g,h,i)perylene	ND	2.2	U	µg/L	1	9/6/2011 7:47 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 7:47 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 7:47 PM
Dibenz(a,h)anthracene	ND	2.2	U	µg/L	1	9/6/2011 7:47 PM
Fluoranthene	ND	2.2	U	µg/L	1	9/6/2011 7:47 PM
Fluorene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Indeno(1,2,3-cd)pyrene	ND	2.2	U	µg/L	1	9/6/2011 7:47 PM
Naphthalene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Phenanthrene	ND	2.2	U	µg/L	1	9/6/2011 7:47 PM
Pyrene	ND	5.4	U	µg/L	1	9/6/2011 7:47 PM
Surr: 2-Fluorobiphenyl	48.4	50-110	S	%REC	1	9/6/2011 7:47 PM
Surr: Nitrobenzene-d5	55.5	40-110		%REC	1	9/6/2011 7:47 PM
Surr: Terphenyl-d14	78.8	50-135		%REC	1	9/6/2011 7:47 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-030	**Matrix:**	Elutriate
Client Sample ID:	MW-11-07		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	6.8	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	5.9	0.10		mg/L	1	8/31/2011 2:46 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-031	**Matrix:**	Elutriate
Client Sample ID:	MW-11-08		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 5:50 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 5:50 AM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 5:50 AM
Surr: Decachlorobiphenyl	101	30-135		%REC	1	9/13/2011 5:50 AM
Surr: Tetrachloro-m-xylene	83.2	25-140		%REC	1	9/13/2011 5:50 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 1:45 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 1:45 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 1:45 AM
Surr: Decachlorobiphenyl	121	40-135		%REC	1	9/13/2011 1:45 AM
Surr: Tetrachloro-m-xylene	122	40-135		%REC	1	9/13/2011 1:45 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.032	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-031	**Matrix:**	Elutriate
Client Sample ID:	MW-11-08		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.2	0.60		µg/L	2	9/6/2011 10:00 AM
Barium	330	10		µg/L	2	9/6/2011 10:00 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 10:00 AM
Chromium	1.2	4.0	J	µg/L	2	9/6/2011 10:00 AM
Copper	1.6	2.0	J	µg/L	2	9/6/2011 10:00 AM
Iron	120	40		µg/L	2	9/6/2011 10:00 AM
Lead	0.39	0.40	J	µg/L	2	9/6/2011 10:00 AM
Manganese	360	2.0		µg/L	2	9/6/2011 10:00 AM
Nickel	1.5	4.0	J	µg/L	2	9/6/2011 10:00 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 10:00 AM
Zinc	73	20		µg/L	2	9/6/2011 10:00 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:47 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:55 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Acenaphthene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Acenaphthylene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Anthracene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 8:11 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 8:11 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 8:11 PM
Benzo(g,h,i)perylene	ND	2.2	U	µg/L	1	9/6/2011 8:11 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 8:11 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 8:11 PM
Dibenz(a,h)anthracene	ND	2.2	U	µg/L	1	9/6/2011 8:11 PM
Fluoranthene	ND	2.2	U	µg/L	1	9/6/2011 8:11 PM
Fluorene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Indeno(1,2,3-cd)pyrene	ND	2.2	U	µg/L	1	9/6/2011 8:11 PM
Naphthalene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Phenanthrene	ND	2.2	U	µg/L	1	9/6/2011 8:11 PM
Pyrene	ND	5.6	U	µg/L	1	9/6/2011 8:11 PM
Surr: 2-Fluorobiphenyl	33.8	50-110	S	%REC	1	9/6/2011 8:11 PM
Surr: Nitrobenzene-d5	52.5	40-110		%REC	1	9/6/2011 8:11 PM
Surr: Terphenyl-d14	79.4	50-135		%REC	1	9/6/2011 8:11 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-031	**Matrix:**	Elutriate
Client Sample ID:	MW-11-08		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3.6	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	1.9	0.10		mg/L	1	8/31/2011 2:53 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-032	**Matrix:**	Elutriate
Client Sample ID:	MW-11-09		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 6:36 AM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 6:36 AM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 6:36 AM
Surr: Decachlorobiphenyl	96.8	30-135		%REC	1	9/13/2011 6:36 AM
Surr: Tetrachloro-m-xylene	82.7	25-140		%REC	1	9/13/2011 6:36 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2012 2:14 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2012 2:14 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2012 2:14 AM
Surr: Decachlorobiphenyl	117	40-135		%REC	1	9/13/2012 2:14 AM
Surr: Tetrachloro-m-xylene	107	40-135		%REC	1	9/13/2012 2:14 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.021	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-032	**Matrix:**	Elutriate
Client Sample ID:	MW-11-09		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	2.2	0.60		µg/L	2	9/6/2011 10:01 AM
Barium	300	10		µg/L	2	9/6/2011 10:01 AM
Cadmium	0.12	0.40	J	µg/L	2	9/6/2011 10:01 AM
Chromium	1.8	4.0	J	µg/L	2	9/6/2011 10:01 AM
Copper	1.4	2.0	J	µg/L	2	9/6/2011 10:01 AM
Iron	67	40		µg/L	2	9/6/2011 10:01 AM
Lead	0.40	0.40		µg/L	2	9/6/2011 10:01 AM
Manganese	150	2.0		µg/L	2	9/6/2011 10:01 AM
Nickel	2.0	4.0	J	µg/L	2	9/6/2011 10:01 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 10:01 AM
Zinc	66	20		µg/L	2	9/6/2011 10:01 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:48 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:56 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Acenaphthene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Acenaphthylene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Anthracene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 8:34 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 8:34 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 8:34 PM
Benzo(g,h,i)perylene	ND	2.2	U	µg/L	1	9/6/2011 8:34 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 8:34 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 8:34 PM
Dibenz(a,h)anthracene	ND	2.2	U	µg/L	1	9/6/2011 8:34 PM
Fluoranthene	ND	2.2	U	µg/L	1	9/6/2011 8:34 PM
Fluorene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Indeno(1,2,3-cd)pyrene	ND	2.2	U	µg/L	1	9/6/2011 8:34 PM
Naphthalene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Phenanthrene	ND	2.2	U	µg/L	1	9/6/2011 8:34 PM
Pyrene	ND	5.4	U	µg/L	1	9/6/2011 8:34 PM
Surr: 2-Fluorobiphenyl	45.0	50-110	S	%REC	1	9/6/2011 8:34 PM
Surr: Nitrobenzene-d5	66.8	40-110		%REC	1	9/6/2011 8:34 PM
Surr: Terphenyl-d14	87.3	50-135		%REC	1	9/6/2011 8:34 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-032	**Matrix:**	Elutriate
Client Sample ID:	MW-11-09		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	5.5	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	4.1	0.10		mg/L	1	8/31/2011 2:54 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-033	**Matrix:**	Elutriate
Client Sample ID:	MW-11-10		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
4,4'-DDE	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
4,4'-DDT	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Aldrin	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
alpha-BHC	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
alpha-Chlordane	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
beta-BHC	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Chlordane (Technical)	ND	0.24	U	µg/L	1	9/13/2011 7:22 AM
delta-BHC	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Dieldrin	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Endosulfan I	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Endosulfan II	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Endosulfan sulfate	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Endrin	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Endrin aldehyde	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Endrin ketone	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
gamma-BHC	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
gamma-Chlordane	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Heptachlor	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Heptachlor epoxide	ND	0.012	U	µg/L	1	9/13/2011 7:22 AM
Methoxychlor	0.013	0.012		µg/L	1	9/13/2011 7:22 AM
Toxaphene	ND	0.24	U	µg/L	1	9/13/2011 7:22 AM
Surr: Decachlorobiphenyl	100	30-135		%REC	1	9/13/2011 7:22 AM
Surr: Tetrachloro-m-xylene	82.7	25-140		%REC	1	9/13/2011 7:22 AM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 2:43 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 2:43 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 2:43 AM
Surr: Decachlorobiphenyl	118	40-135		%REC	1	9/13/2011 2:43 AM
Surr: Tetrachloro-m-xylene	120	40-135		%REC	1	9/13/2011 2:43 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.030	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-033	**Matrix:**	Elutriate
Client Sample ID:	MW-11-10		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.4	0.60		µg/L	2	9/6/2011 10:03 AM
Barium	260	10		µg/L	2	9/6/2011 10:03 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 10:03 AM
Chromium	1.5	4.0	J	µg/L	2	9/6/2011 10:03 AM
Copper	1.4	2.0	J	µg/L	2	9/6/2011 10:03 AM
Iron	110	40		µg/L	2	9/6/2011 10:03 AM
Lead	0.70	0.40		µg/L	2	9/6/2011 10:03 AM
Manganese	240	2.0		µg/L	2	9/6/2011 10:03 AM
Nickel	1.6	4.0	J	µg/L	2	9/6/2011 10:03 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 10:03 AM
Zinc	53	20		µg/L	2	9/6/2011 10:03 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:49 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 2:57 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Acenaphthene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Acenaphthylene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Anthracene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 8:57 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 8:57 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 8:57 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 8:57 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 8:57 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 8:57 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 8:57 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 8:57 PM
Fluorene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 8:57 PM
Naphthalene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 8:57 PM
Pyrene	ND	5.3	U	µg/L	1	9/6/2011 8:57 PM
Surr: 2-Fluorobiphenyl	44.2	50-110	S	%REC	1	9/6/2011 8:57 PM
Surr: Nitrobenzene-d5	61.6	40-110		%REC	1	9/6/2011 8:57 PM
Surr: Terphenyl-d14	81.5	50-135		%REC	1	9/6/2011 8:57 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-033	**Matrix:**	Elutriate
Client Sample ID:	MW-11-10		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	2.9	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	1.6	0.10		mg/L	1	8/31/2011 2:57 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-034	**Matrix:**	Elutriate
Client Sample ID:	MW-11-11		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Chlordane (Technical)	ND	0.23	U	µg/L	1	9/13/2011 2:15 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 2:15 PM
Toxaphene	ND	0.23	U	µg/L	1	9/13/2011 2:15 PM
Surr: Decachlorobiphenyl	108	30-135		%REC	1	9/13/2011 2:15 PM
Surr: Tetrachloro-m-xylene	86.6	25-140		%REC	1	9/13/2011 2:15 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 4:41 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 4:41 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 4:41 AM
Surr: Decachlorobiphenyl	135	40-135	S	%REC	1	9/13/2011 4:41 AM
Surr: Tetrachloro-m-xylene	118	40-135		%REC	1	9/13/2011 4:41 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.022	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-034	**Matrix:**	Elutriate
Client Sample ID:	MW-11-11		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.5	0.60		µg/L	2	9/6/2011 10:04 AM
Barium	280	10		µg/L	2	9/6/2011 10:04 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 10:04 AM
Chromium	1.4	4.0	J	µg/L	2	9/6/2011 10:04 AM
Copper	1.4	2.0	J	µg/L	2	9/6/2011 10:04 AM
Iron	110	40		µg/L	2	9/6/2011 10:04 AM
Lead	0.93	0.40		µg/L	2	9/6/2011 10:04 AM
Manganese	210	2.0		µg/L	2	9/6/2011 10:04 AM
Nickel	1.4	4.0	J	µg/L	2	9/6/2011 10:04 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 10:04 AM
Zinc	52	20		µg/L	2	9/6/2011 10:04 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:49 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	4.2	0.20		µg/L	1	9/7/2011 2:59 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Acenaphthene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Acenaphthylene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Anthracene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Benz(a)anthracene	ND	1.3	U	µg/L	1	9/6/2011 9:20 PM
Benzo(a)pyrene	ND	1.3	U	µg/L	1	9/6/2011 9:20 PM
Benzo(b)fluoranthene	ND	1.3	U	µg/L	1	9/6/2011 9:20 PM
Benzo(g,h,i)perylene	ND	2.6	U	µg/L	1	9/6/2011 9:20 PM
Benzo(k)fluoranthene	ND	1.3	U	µg/L	1	9/6/2011 9:20 PM
Chrysene	ND	1.3	U	µg/L	1	9/6/2011 9:20 PM
Dibenz(a,h)anthracene	ND	2.6	U	µg/L	1	9/6/2011 9:20 PM
Fluoranthene	ND	2.6	U	µg/L	1	9/6/2011 9:20 PM
Fluorene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Indeno(1,2,3-cd)pyrene	ND	2.6	U	µg/L	1	9/6/2011 9:20 PM
Naphthalene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Phenanthrene	ND	2.6	U	µg/L	1	9/6/2011 9:20 PM
Pyrene	ND	6.5	U	µg/L	1	9/6/2011 9:20 PM
Surr: 2-Fluorobiphenyl	52.0	50-110		%REC	1	9/6/2011 9:20 PM
Surr: Nitrobenzene-d5	61.6	40-110		%REC	1	9/6/2011 9:20 PM
Surr: Terphenyl-d14	81.2	50-135		%REC	1	9/6/2011 9:20 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-034	**Matrix:**	Elutriate
Client Sample ID:	MW-11-11		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3.3	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	1.8	0.10		mg/L	1	8/31/2011 3:08 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-035	**Matrix:**	Elutriate
Client Sample ID:	MW-11-12		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Chlordane (Technical)	ND	0.23	U	µg/L	1	9/13/2011 3:01 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 3:01 PM
Toxaphene	ND	0.23	U	µg/L	1	9/13/2011 3:01 PM
Surr: Decachlorobiphenyl	102	30-135		%REC	1	9/13/2011 3:01 PM
Surr: Tetrachloro-m-xylene	67.5	25-140		%REC	1	9/13/2011 3:01 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 5:10 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 5:10 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 5:10 AM
Surr: Decachlorobiphenyl	134	40-135		%REC	1	9/13/2011 5:10 AM
Surr: Tetrachloro-m-xylene	91.4	40-135		%REC	1	9/13/2011 5:10 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.015	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-035	**Matrix:**	Elutriate
Client Sample ID:	MW-11-12		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	1.1	0.60		µg/L	2	9/6/2011 10:06 AM
Barium	260	10		µg/L	2	9/6/2011 10:06 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 10:06 AM
Chromium	0.64	4.0	J	µg/L	2	9/6/2011 10:06 AM
Copper	1.2	2.0	J	µg/L	2	9/6/2011 10:06 AM
Iron	44	40		µg/L	2	9/6/2011 10:06 AM
Lead	0.28	0.40	J	µg/L	2	9/6/2011 10:06 AM
Manganese	220	2.0		µg/L	2	9/6/2011 10:06 AM
Nickel	1.9	4.0	J	µg/L	2	9/6/2011 10:06 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 10:06 AM
Zinc	63	20		µg/L	2	9/6/2011 10:06 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:50 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:03 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Acenaphthene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Acenaphthylene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Anthracene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/6/2011 9:43 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/6/2011 9:43 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 9:43 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 9:43 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 9:43 PM
Chrysene	ND	1.0	U	µg/L	1	9/6/2011 9:43 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 9:43 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 9:43 PM
Fluorene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 9:43 PM
Naphthalene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 9:43 PM
Pyrene	ND	5.2	U	µg/L	1	9/6/2011 9:43 PM
Surr: 2-Fluorobiphenyl	54.5	50-110		%REC	1	9/6/2011 9:43 PM
Surr: Nitrobenzene-d5	58.1	40-110		%REC	1	9/6/2011 9:43 PM
Surr: Terphenyl-d14	72.9	50-135		%REC	1	9/6/2011 9:43 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-035	**Matrix:**	Elutriate
Client Sample ID:	MW-11-12		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	3.9	0.20	B	mg/L	1	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	2.4	0.10		mg/L	1	8/31/2011 3:13 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-036	**Matrix:**	Elutriate
Client Sample ID:	MW-11-13		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Chlordane (Technical)	ND	0.23	U	µg/L	1	9/13/2011 3:46 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 3:46 PM
Toxaphene	ND	0.23	U	µg/L	1	9/13/2011 3:46 PM
Surr: Decachlorobiphenyl	96.3	30-135		%REC	1	9/13/2011 3:46 PM
Surr: Tetrachloro-m-xylene	63.3	25-140		%REC	1	9/13/2011 3:46 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 5:39 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 5:39 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 5:39 AM
Surr: Decachlorobiphenyl	123	40-135		%REC	1	9/13/2011 5:39 AM
Surr: Tetrachloro-m-xylene	84.7	40-135		%REC	1	9/13/2011 5:39 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.022	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-036	**Matrix:**	Elutriate
Client Sample ID:	MW-11-13		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	1.5	0.60		µg/L	2	9/6/2011 10:07 AM
Barium	210	10		µg/L	2	9/6/2011 10:07 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 10:07 AM
Chromium	0.82	4.0	J	µg/L	2	9/6/2011 10:07 AM
Copper	1.7	2.0	J	µg/L	2	9/6/2011 10:07 AM
Iron	58	40		µg/L	2	9/6/2011 10:07 AM
Lead	0.68	0.40		µg/L	2	9/6/2011 10:07 AM
Manganese	100	2.0		µg/L	2	9/6/2011 10:07 AM
Nickel	2.7	4.0	J	µg/L	2	9/6/2011 10:07 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 10:07 AM
Zinc	72	20		µg/L	2	9/6/2011 10:07 AM
Metals Kit - Aqueous	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	ND	1.5	U	µg/L	5	9/6/2011 7:51 PM
Metals Kit - Aqueous	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury						
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:05 PM
Polynuclear Aromatic Hydrocarbons	**Method: 8270D**			**SW3510C**		**Analyst: J J W**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Acenaphthene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Acenaphthylene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Anthracene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/6/2011 10:07 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/6/2011 10:07 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 10:07 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 10:07 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 10:07 PM
Chrysene	ND	1.0	U	µg/L	1	9/6/2011 10:07 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 10:07 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 10:07 PM
Fluorene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 10:07 PM
Naphthalene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 10:07 PM
Pyrene	ND	5.2	U	µg/L	1	9/6/2011 10:07 PM
Surr: 2-Fluorobiphenyl	58.7	50-110		%REC	1	9/6/2011 10:07 PM
Surr: Nitrobenzene-d5	67.8	40-110		%REC	1	9/6/2011 10:07 PM
Surr: Terphenyl-d14	73.9	50-135		%REC	1	9/6/2011 10:07 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/26/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-036	**Matrix:**	Elutriate
Client Sample ID:	MW-11-13		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	11	0.40		mg/L	2	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	8.2	0.10		mg/L	1	8/31/2011 3:20 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-037	**Matrix:**	Elutriate
Client Sample ID:	MW-11-14		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 4:32 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 4:32 PM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 4:32 PM
Surr: Decachlorobiphenyl	100	30-135		%REC	1	9/13/2011 4:32 PM
Surr: Tetrachloro-m-xylene	62.4	25-140		%REC	1	9/13/2011 4:32 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 6:08 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 6:08 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 6:08 AM
Surr: Decachlorobiphenyl	130	40-135		%REC	1	9/13/2011 6:08 AM
Surr: Tetrachloro-m-xylene	87.3	40-135		%REC	1	9/13/2011 6:08 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.026	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-037	**Matrix:**	Elutriate
Client Sample ID:	MW-11-14		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	0.99	0.60		µg/L	2	9/6/2011 10:46 AM
Barium	300	10		µg/L	2	9/6/2011 10:46 AM
Cadmium	0.20	0.40	J	µg/L	2	9/6/2011 10:46 AM
Chromium	0.90	4.0	J	µg/L	2	9/6/2011 10:46 AM
Copper	2.6	2.0		µg/L	2	9/6/2011 10:46 AM
Iron	96	40		µg/L	2	9/6/2011 10:46 AM
Lead	0.19	0.40	J	µg/L	2	9/6/2011 10:46 AM
Manganese	340	2.0		µg/L	2	9/6/2011 10:46 AM
Nickel	1.9	4.0	J	µg/L	2	9/6/2011 10:46 AM
Selenium	1.0	2.0	J	µg/L	2	9/6/2011 10:46 AM
Zinc	84	20		µg/L	2	9/6/2011 10:46 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:02 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:06 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Acenaphthene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Acenaphthylene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Anthracene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/6/2011 10:30 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/6/2011 10:30 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 10:30 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 10:30 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/6/2011 10:30 PM
Chrysene	ND	1.1	U	µg/L	1	9/6/2011 10:30 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 10:30 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 10:30 PM
Fluorene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 10:30 PM
Naphthalene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 10:30 PM
Pyrene	ND	5.3	U	µg/L	1	9/6/2011 10:30 PM
Surr: 2-Fluorobiphenyl	46.1	50-110	S	%REC	1	9/6/2011 10:30 PM
Surr: Nitrobenzene-d5	49.2	40-110		%REC	1	9/6/2011 10:30 PM
Surr: Terphenyl-d14	70.5	50-135		%REC	1	9/6/2011 10:30 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-037	**Matrix:**	Elutriate
Client Sample ID:	MW-11-14		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit		**Method: E351.2**				**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	11	0.40		mg/L	2	9/2/2011 9:20 AM
Nutrients Kit		**Method: A4500-NH3-D**				**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	9.6	0.10		mg/L	1	8/31/2011 3:27 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-038	**Matrix:**	Elutriate
Client Sample ID:	MW-11-15		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Chlordane (Technical)	ND	0.21	U	µg/L	1	9/13/2011 5:18 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 5:18 PM
Toxaphene	ND	0.21	U	µg/L	1	9/13/2011 5:18 PM
Surr: Decachlorobiphenyl	168	30-135	S	%REC	1	9/13/2011 5:18 PM
Surr: Tetrachloro-m-xylene	92.8	25-140		%REC	1	9/13/2011 5:18 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 6:37 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 6:37 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 6:37 AM
Surr: Decachlorobiphenyl	219	40-135	S	%REC	1	9/13/2011 6:37 AM
Surr: Tetrachloro-m-xylene	131	40-135		%REC	1	9/13/2011 6:37 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.022	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-038	**Matrix:**	Elutriate
Client Sample ID:	MW-11-15		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	1.0	0.60		µg/L	2	9/6/2011 10:50 AM
Barium	300	10		µg/L	2	9/6/2011 10:50 AM
Cadmium	0.11	0.40	J	µg/L	2	9/6/2011 10:50 AM
Chromium	0.58	4.0	J	µg/L	2	9/6/2011 10:50 AM
Copper	2.3	2.0		µg/L	2	9/6/2011 10:50 AM
Iron	100	40		µg/L	2	9/6/2011 10:50 AM
Lead	0.20	0.40	J	µg/L	2	9/6/2011 10:50 AM
Manganese	130	2.0		µg/L	2	9/6/2011 10:50 AM
Nickel	1.9	4.0	J	µg/L	2	9/6/2011 10:50 AM
Selenium	1.5	2.0	J	µg/L	2	9/6/2011 10:50 AM
Zinc	73	20		µg/L	2	9/6/2011 10:50 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:03 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.058	0.20	J	µg/L	1	9/7/2011 3:11 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Acenaphthene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Acenaphthylene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Anthracene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/6/2011 10:53 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/6/2011 10:53 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 10:53 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 10:53 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 10:53 PM
Chrysene	ND	1.0	U	µg/L	1	9/6/2011 10:53 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 10:53 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 10:53 PM
Fluorene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 10:53 PM
Naphthalene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 10:53 PM
Pyrene	ND	5.2	U	µg/L	1	9/6/2011 10:53 PM
Surr: 2-Fluorobiphenyl	45.5	50-110	S	%REC	1	9/6/2011 10:53 PM
Surr: Nitrobenzene-d5	49.3	40-110		%REC	1	9/6/2011 10:53 PM
Surr: Terphenyl-d14	70.3	50-135		%REC	1	9/6/2011 10:53 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-038	**Matrix:**	Elutriate
Client Sample ID:	MW-11-15		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	11	0.40		mg/L	2	9/2/2011 9:20 AM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	11	0.10		mg/L	1	8/31/2011 3:28 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-039	**Matrix:**	Elutriate
Client Sample ID:	MW-11-16		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 6:04 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 6:04 PM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 6:04 PM
Surr: Decachlorobiphenyl	96.1	30-135		%REC	1	9/13/2011 6:04 PM
Surr: Tetrachloro-m-xylene	50.8	25-140		%REC	1	9/13/2011 6:04 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 7:07 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 7:07 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 7:07 AM
Surr: Decachlorobiphenyl	131	40-135		%REC	1	9/13/2011 7:07 AM
Surr: Tetrachloro-m-xylene	73.5	40-135		%REC	1	9/13/2011 7:07 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.024	0.010		mg/L	1	9/1/2011 10:41 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-039	**Matrix:**	Elutriate
Client Sample ID:	MW-11-16		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	0.93	0.60		µg/L	2	9/6/2011 10:52 AM
Barium	230	10		µg/L	2	9/6/2011 10:52 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 10:52 AM
Chromium	0.62	4.0	J	µg/L	2	9/6/2011 10:52 AM
Copper	2.3	2.0		µg/L	2	9/6/2011 10:52 AM
Iron	79	40		µg/L	2	9/6/2011 10:52 AM
Lead	0.39	0.40	J	µg/L	2	9/6/2011 10:52 AM
Manganese	8.6	2.0		µg/L	2	9/6/2011 10:52 AM
Nickel	2.3	4.0	J	µg/L	2	9/6/2011 10:52 AM
Selenium	0.92	2.0	J	µg/L	2	9/6/2011 10:52 AM
Zinc	57	20		µg/L	2	9/6/2011 10:52 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:04 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:27 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: J J W**
2-Methylnaphthalene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Acenaphthene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Acenaphthylene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Anthracene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/6/2011 11:16 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/6/2011 11:16 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 11:16 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/6/2011 11:16 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/6/2011 11:16 PM
Chrysene	ND	1.0	U	µg/L	1	9/6/2011 11:16 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/6/2011 11:16 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/6/2011 11:16 PM
Fluorene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/6/2011 11:16 PM
Naphthalene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/6/2011 11:16 PM
Pyrene	ND	5.2	U	µg/L	1	9/6/2011 11:16 PM
Surr: 2-Fluorobiphenyl	52.6	50-110		%REC	1	9/6/2011 11:16 PM
Surr: Nitrobenzene-d5	58.9	40-110		%REC	1	9/6/2011 11:16 PM
Surr: Terphenyl-d14	70.7	50-135		%REC	1	9/6/2011 11:16 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-039	**Matrix:**	Elutriate
Client Sample ID:	MW-11-16		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	4.6	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	3.5	0.10		mg/L	1	8/31/2011 3:33 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-040	**Matrix:**	Elutriate
Client Sample ID:	MW-11-17		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Chlordane (Technical)	ND	0.22	U	µg/L	1	9/13/2011 6:50 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
gamma-Chlordane	0.0093	0.011	J	µg/L	1	9/13/2011 6:50 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 6:50 PM
Toxaphene	ND	0.22	U	µg/L	1	9/13/2011 6:50 PM
Surr: Decachlorobiphenyl	96.9	30-135		%REC	1	9/13/2011 6:50 PM
Surr: Tetrachloro-m-xylene	44.6	25-140		%REC	1	9/13/2011 6:50 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 7:36 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 7:36 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 7:36 AM
Surr: Decachlorobiphenyl	131	40-135		%REC	1	9/13/2011 7:36 AM
Surr: Tetrachloro-m-xylene	59.4	40-135		%REC	1	9/13/2011 7:36 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.020	0.010		mg/L	1	9/1/2011 10:42 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-040	**Matrix:**	Elutriate
Client Sample ID:	MW-11-17		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Metals, ICP/MS						
Arsenic	1.0	0.60		µg/L	2	9/6/2011 10:54 AM
Barium	280	10		µg/L	2	9/6/2011 10:54 AM
Cadmium	0.12	0.40	J	µg/L	2	9/6/2011 10:54 AM
Chromium	0.61	4.0	J	µg/L	2	9/6/2011 10:54 AM
Copper	2.3	2.0		µg/L	2	9/6/2011 10:54 AM
Iron	110	40		µg/L	2	9/6/2011 10:54 AM
Lead	0.19	0.40	J	µg/L	2	9/6/2011 10:54 AM
Manganese	390	2.0		µg/L	2	9/6/2011 10:54 AM
Nickel	2.3	4.0	J	µg/L	2	9/6/2011 10:54 AM
Selenium	1.0	2.0	J	µg/L	2	9/6/2011 10:54 AM
Zinc	85	20		µg/L	2	9/6/2011 10:54 AM
Metals Kit - Aqueous	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver and Antimony, ICP/MS						
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:07 PM
Metals Kit - Aqueous	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury						
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:32 PM
Polynuclear Aromatic Hydrocarbons	**Method: 8270D**			**SW3510C**		**Analyst: MT3**
Semi-Volatile Organic Compounds						
2-Methylnaphthalene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Acenaphthene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Acenaphthylene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Anthracene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/16/2011 7:33 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/16/2011 7:33 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/16/2011 7:33 PM
Benzo(g,h,i)perylene	ND	2.1	U	µg/L	1	9/16/2011 7:33 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/16/2011 7:33 PM
Chrysene	ND	1.0	U	µg/L	1	9/16/2011 7:33 PM
Dibenz(a,h)anthracene	ND	2.1	U	µg/L	1	9/16/2011 7:33 PM
Fluoranthene	ND	2.1	U	µg/L	1	9/16/2011 7:33 PM
Fluorene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	U	µg/L	1	9/16/2011 7:33 PM
Naphthalene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Phenanthrene	ND	2.1	U	µg/L	1	9/16/2011 7:33 PM
Pyrene	ND	5.2	U	µg/L	1	9/16/2011 7:33 PM
Surr: 2-Fluorobiphenyl	57.9	50-110		%REC	1	9/16/2011 7:33 PM
Surr: Nitrobenzene-d5	62.2	40-110		%REC	1	9/16/2011 7:33 PM
Surr: Terphenyl-d14	88.0	50-135		%REC	1	9/16/2011 7:33 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-040	**Matrix:**	Elutriate
Client Sample ID:	MW-11-17		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	9.6	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	9.6	0.10		mg/L	1	8/31/2011 3:42 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-041	**Matrix:**	Elutriate
Client Sample ID:	MW-11-18		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
4,4'-DDE	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
4,4'-DDT	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Aldrin	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
alpha-BHC	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
alpha-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
beta-BHC	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Chlordane (Technical)	ND	0.21	U	µg/L	1	9/13/2011 7:36 PM
delta-BHC	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Dieldrin	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Endosulfan I	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Endosulfan II	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Endosulfan sulfate	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Endrin	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Endrin aldehyde	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Endrin ketone	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
gamma-BHC	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
gamma-Chlordane	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Heptachlor	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Heptachlor epoxide	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Methoxychlor	ND	0.011	U	µg/L	1	9/13/2011 7:36 PM
Toxaphene	ND	0.21	U	µg/L	1	9/13/2011 7:36 PM
Surr: Decachlorobiphenyl	95.7	30-135		%REC	1	9/13/2011 7:36 PM
Surr: Tetrachloro-m-xylene	71.5	25-140		%REC	1	9/13/2011 7:36 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 8:05 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 8:05 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 8:05 AM
Surr: Decachlorobiphenyl	130	40-135		%REC	1	9/13/2011 8:05 AM
Surr: Tetrachloro-m-xylene	94.6	40-135		%REC	1	9/13/2011 8:05 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.019	0.010		mg/L	1	9/1/2011 10:42 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-041	**Matrix:**	Elutriate
Client Sample ID:	MW-11-18		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.1	0.60		µg/L	2	9/6/2011 11:00 AM
Barium	240	10		µg/L	2	9/6/2011 11:00 AM
Cadmium	0.15	0.40	J	µg/L	2	9/6/2011 11:00 AM
Chromium	0.50	4.0	J	µg/L	2	9/6/2011 11:00 AM
Copper	2.6	2.0		µg/L	2	9/6/2011 11:00 AM
Iron	120	40		µg/L	2	9/6/2011 11:00 AM
Lead	0.14	0.40	J	µg/L	2	9/6/2011 11:00 AM
Manganese	150	2.0		µg/L	2	9/6/2011 11:00 AM
Nickel	2.1	4.0	J	µg/L	2	9/6/2011 11:00 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 11:00 AM
Zinc	83	20		µg/L	2	9/6/2011 11:00 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:08 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:33 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Acenaphthene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Acenaphthylene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Anthracene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/16/2011 7:56 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/16/2011 7:56 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/16/2011 7:56 PM
Benzo(g,h,i)perylene	ND	2.0	U	µg/L	1	9/16/2011 7:56 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/16/2011 7:56 PM
Chrysene	ND	1.0	U	µg/L	1	9/16/2011 7:56 PM
Dibenz(a,h)anthracene	ND	2.0	U	µg/L	1	9/16/2011 7:56 PM
Fluoranthene	ND	2.0	U	µg/L	1	9/16/2011 7:56 PM
Fluorene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Indeno(1,2,3-cd)pyrene	ND	2.0	U	µg/L	1	9/16/2011 7:56 PM
Naphthalene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Phenanthrene	ND	2.0	U	µg/L	1	9/16/2011 7:56 PM
Pyrene	ND	5.1	U	µg/L	1	9/16/2011 7:56 PM
Surr: 2-Fluorobiphenyl	57.6	50-110		%REC	1	9/16/2011 7:56 PM
Surr: Nitrobenzene-d5	63.2	40-110		%REC	1	9/16/2011 7:56 PM
Surr: Terphenyl-d14	95.5	50-135		%REC	1	9/16/2011 7:56 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-041	**Matrix:**	Elutriate
Client Sample ID:	MW-11-18		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	13	0.40		mg/L	2	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	12	0.10		mg/L	1	8/31/2011 3:44 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-042	**Matrix:**	Elutriate
Client Sample ID:	MW-11-19		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
4,4'-DDE	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
4,4'-DDT	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Aldrin	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
alpha-BHC	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
alpha-Chlordane	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
beta-BHC	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Chlordane (Technical)	ND	0.21	U	µg/L	1	9/13/2011 8:21 PM
delta-BHC	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Dieldrin	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Endosulfan I	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Endosulfan II	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Endosulfan sulfate	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Endrin	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Endrin aldehyde	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Endrin ketone	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
gamma-BHC	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
gamma-Chlordane	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Heptachlor	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Heptachlor epoxide	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Methoxychlor	ND	0.010	U	µg/L	1	9/13/2011 8:21 PM
Toxaphene	ND	0.21	U	µg/L	1	9/13/2011 8:21 PM
Surr: Decachlorobiphenyl	111	30-135		%REC	1	9/13/2011 8:21 PM
Surr: Tetrachloro-m-xylene	76.6	25-140		%REC	1	9/13/2011 8:21 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 8:34 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 8:34 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 8:34 AM
Surr: Decachlorobiphenyl	150	40-135	S	%REC	1	9/13/2011 8:34 AM
Surr: Tetrachloro-m-xylene	113	40-135		%REC	1	9/13/2011 8:34 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.028	0.010		mg/L	1	9/1/2011 10:42 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-042	**Matrix:**	Elutriate
Client Sample ID:	MW-11-19		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.1	0.60		µg/L	2	9/6/2011 11:01 AM
Barium	210	10		µg/L	2	9/6/2011 11:01 AM
Cadmium	0.11	0.40	J	µg/L	2	9/6/2011 11:01 AM
Chromium	0.84	4.0	J	µg/L	2	9/6/2011 11:01 AM
Copper	3.3	2.0		µg/L	2	9/6/2011 11:01 AM
Iron	150	40		µg/L	2	9/6/2011 11:01 AM
Lead	0.30	0.40	J	µg/L	2	9/6/2011 11:01 AM
Manganese	170	2.0		µg/L	2	9/6/2011 11:01 AM
Nickel	2.2	4.0	J	µg/L	2	9/6/2011 11:01 AM
Selenium	ND	2.0	U	µg/L	2	9/6/2011 11:01 AM
Zinc	70	20		µg/L	2	9/6/2011 11:01 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:09 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:35 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Acenaphthene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Acenaphthylene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Anthracene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Benz(a)anthracene	ND	1.0	U	µg/L	1	9/16/2011 9:05 PM
Benzo(a)pyrene	ND	1.0	U	µg/L	1	9/16/2011 9:05 PM
Benzo(b)fluoranthene	ND	1.0	U	µg/L	1	9/16/2011 9:05 PM
Benzo(g,h,i)perylene	ND	2.0	U	µg/L	1	9/16/2011 9:05 PM
Benzo(k)fluoranthene	ND	1.0	U	µg/L	1	9/16/2011 9:05 PM
Chrysene	ND	1.0	U	µg/L	1	9/16/2011 9:05 PM
Dibenz(a,h)anthracene	ND	2.0	U	µg/L	1	9/16/2011 9:05 PM
Fluoranthene	ND	2.0	U	µg/L	1	9/16/2011 9:05 PM
Fluorene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Indeno(1,2,3-cd)pyrene	ND	2.0	U	µg/L	1	9/16/2011 9:05 PM
Naphthalene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Phenanthrene	ND	2.0	U	µg/L	1	9/16/2011 9:05 PM
Pyrene	ND	5.0	U	µg/L	1	9/16/2011 9:05 PM
Surr: 2-Fluorobiphenyl	71.4	50-110		%REC	1	9/16/2011 9:05 PM
Surr: Nitrobenzene-d5	86.5	40-110		%REC	1	9/16/2011 9:05 PM
Surr: Terphenyl-d14	94.0	50-135		%REC	1	9/16/2011 9:05 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-042	**Matrix:**	Elutriate
Client Sample ID:	MW-11-19		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	11	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	9.2	0.10		mg/L	1	8/31/2011 3:57 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-043	**Matrix:**	Elutriate
Client Sample ID:	MW-11-20		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
4,4'-DDE	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
4,4'-DDT	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Aldrin	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
alpha-BHC	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
alpha-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
beta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Chlordane (Technical)	ND	0.21	UH	µg/L	1	9/22/2011 3:52 PM
delta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Dieldrin	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Endosulfan I	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Endosulfan II	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Endosulfan sulfate	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Endrin	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Endrin aldehyde	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Endrin ketone	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
gamma-BHC	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
gamma-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Heptachlor	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Heptachlor epoxide	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Methoxychlor	ND	0.011	UH	µg/L	1	9/22/2011 3:52 PM
Toxaphene	ND	0.21	UH	µg/L	1	9/22/2011 3:52 PM
Surr: Decachlorobiphenyl	110	30-135	H	%REC	1	9/22/2011 3:52 PM
Surr: Tetrachloro-m-xylene	92.8	25-140	H	%REC	1	9/22/2011 3:52 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/22/2011 3:45 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/22/2011 3:45 AM
Total PCBs	ND	0.2	U	µg/L	1	9/22/2011 3:45 AM
Surr: Decachlorobiphenyl	127	40-135		%REC	1	9/22/2011 3:45 AM
Surr: Tetrachloro-m-xylene	91.3	40-135		%REC	1	9/22/2011 3:45 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.036	0.010		mg/L	1	9/1/2011 10:42 AM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-043	**Matrix:**	Elutriate
Client Sample ID:	MW-11-20		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.1	0.60		µg/L	2	9/6/2011 11:03 AM
Barium	240	10		µg/L	2	9/6/2011 11:03 AM
Cadmium	0.14	0.40	J	µg/L	2	9/6/2011 11:03 AM
Chromium	0.82	4.0	J	µg/L	2	9/6/2011 11:03 AM
Copper	4.7	2.0		µg/L	2	9/6/2011 11:03 AM
Iron	120	40		µg/L	2	9/6/2011 11:03 AM
Lead	0.29	0.40	J	µg/L	2	9/6/2011 11:03 AM
Manganese	200	2.0		µg/L	2	9/6/2011 11:03 AM
Nickel	2.4	4.0	J	µg/L	2	9/6/2011 11:03 AM
Selenium	1.2	2.0	J	µg/L	2	9/6/2011 11:03 AM
Zinc	88	20		µg/L	2	9/6/2011 11:03 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:09 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:39 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Acenaphthene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Acenaphthylene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Anthracene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Benz(a)anthracene	ND	1.1	U	µg/L	1	9/16/2011 9:28 PM
Benzo(a)pyrene	ND	1.1	U	µg/L	1	9/16/2011 9:28 PM
Benzo(b)fluoranthene	ND	1.1	U	µg/L	1	9/16/2011 9:28 PM
Benzo(g,h,i)perylene	ND	2.2	U	µg/L	1	9/16/2011 9:28 PM
Benzo(k)fluoranthene	ND	1.1	U	µg/L	1	9/16/2011 9:28 PM
Chrysene	ND	1.1	U	µg/L	1	9/16/2011 9:28 PM
Dibenz(a,h)anthracene	ND	2.2	U	µg/L	1	9/16/2011 9:28 PM
Fluoranthene	ND	2.2	U	µg/L	1	9/16/2011 9:28 PM
Fluorene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Indeno(1,2,3-cd)pyrene	ND	2.2	U	µg/L	1	9/16/2011 9:28 PM
Naphthalene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Phenanthrene	ND	2.2	U	µg/L	1	9/16/2011 9:28 PM
Pyrene	ND	5.6	U	µg/L	1	9/16/2011 9:28 PM
Surr: 2-Fluorobiphenyl	57.2	50-110		%REC	1	9/16/2011 9:28 PM
Surr: Nitrobenzene-d5	66.4	40-110		%REC	1	9/16/2011 9:28 PM
Surr: Terphenyl-d14	94.2	50-135		%REC	1	9/16/2011 9:28 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-043	**Matrix:**	Elutriate
Client Sample ID:	MW-11-20		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	9.8	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	9.2	0.10		mg/L	1	8/31/2011 3:59 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-044	**Matrix:**	Elutriate
Client Sample ID:	MW-11-21		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
4,4'-DDE	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
4,4'-DDT	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Aldrin	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
alpha-BHC	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
alpha-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
beta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Chlordane (Technical)	ND	0.22	UH	µg/L	1	9/22/2011 4:38 PM
delta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Dieldrin	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Endosulfan I	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Endosulfan II	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Endosulfan sulfate	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Endrin	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Endrin aldehyde	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Endrin ketone	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
gamma-BHC	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
gamma-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Heptachlor	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Heptachlor epoxide	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Methoxychlor	ND	0.011	UH	µg/L	1	9/22/2011 4:38 PM
Toxaphene	ND	0.22	UH	µg/L	1	9/22/2011 4:38 PM
Surr: Decachlorobiphenyl	108	30-135	H	%REC	1	9/22/2011 4:38 PM
Surr: Tetrachloro-m-xylene	91.8	25-140	H	%REC	1	9/22/2011 4:38 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/22/2011 4:19 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/22/2011 4:19 AM
Total PCBs	ND	0.2	U	µg/L	1	9/22/2011 4:19 AM
Surr: Decachlorobiphenyl	123	40-135		%REC	1	9/22/2011 4:19 AM
Surr: Tetrachloro-m-xylene	95.4	40-135		%REC	1	9/22/2011 4:19 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.026	0.010		mg/L	1	9/1/2011 3:45 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-044	**Matrix:**	Elutriate
Client Sample ID:	MW-11-21		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	1.3	0.60		µg/L	2	9/6/2011 11:04 AM
Barium	200	10		µg/L	2	9/6/2011 11:04 AM
Cadmium	0.12	0.40	J	µg/L	2	9/6/2011 11:04 AM
Chromium	0.70	4.0	J	µg/L	2	9/6/2011 11:04 AM
Copper	3.5	2.0		µg/L	2	9/6/2011 11:04 AM
Iron	91	40		µg/L	2	9/6/2011 11:04 AM
Lead	0.23	0.40	J	µg/L	2	9/6/2011 11:04 AM
Manganese	84	2.0		µg/L	2	9/6/2011 11:04 AM
Nickel	2.3	4.0	J	µg/L	2	9/6/2011 11:04 AM
Selenium	1.0	2.0	J	µg/L	2	9/6/2011 11:04 AM
Zinc	70	20		µg/L	2	9/6/2011 11:04 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:10 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.099	0.20	J	µg/L	1	9/7/2011 3:41 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Acenaphthene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Acenaphthylene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Anthracene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Benz(a)anthracene	ND	1.0	UH	µg/L	1	9/16/2011 8:19 PM
Benzo(a)pyrene	ND	1.0	UH	µg/L	1	9/16/2011 8:19 PM
Benzo(b)fluoranthene	ND	1.0	UH	µg/L	1	9/16/2011 8:19 PM
Benzo(g,h,i)perylene	ND	2.0	UH	µg/L	1	9/16/2011 8:19 PM
Benzo(k)fluoranthene	ND	1.0	UH	µg/L	1	9/16/2011 8:19 PM
Chrysene	ND	1.0	UH	µg/L	1	9/16/2011 8:19 PM
Dibenz(a,h)anthracene	ND	2.0	UH	µg/L	1	9/16/2011 8:19 PM
Fluoranthene	ND	2.0	UH	µg/L	1	9/16/2011 8:19 PM
Fluorene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Indeno(1,2,3-cd)pyrene	ND	2.0	UH	µg/L	1	9/16/2011 8:19 PM
Naphthalene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Phenanthrene	ND	2.0	UH	µg/L	1	9/16/2011 8:19 PM
Pyrene	ND	5.1	UH	µg/L	1	9/16/2011 8:19 PM
Surr: 2-Fluorobiphenyl	54.0	50-110	H	%REC	1	9/16/2011 8:19 PM
Surr: Nitrobenzene-d5	69.8	40-110	H	%REC	1	9/16/2011 8:19 PM
Surr: Terphenyl-d14	82.4	50-135	H	%REC	1	9/16/2011 8:19 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-044	**Matrix:**	Elutriate
Client Sample ID:	MW-11-21		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	13	0.40		mg/L	2	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	16	0.10		mg/L	1	9/7/2011 3:51 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-045	**Matrix:**	Elutriate
Client Sample ID:	MW-11-22		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
4,4'-DDE	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
4,4'-DDT	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Aldrin	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
alpha-BHC	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
alpha-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
beta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Chlordane (Technical)	ND	0.21	UH	µg/L	1	9/22/2011 5:23 PM
delta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Dieldrin	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Endosulfan I	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Endosulfan II	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Endosulfan sulfate	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Endrin	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Endrin aldehyde	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Endrin ketone	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
gamma-BHC	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
gamma-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Heptachlor	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Heptachlor epoxide	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Methoxychlor	ND	0.011	UH	µg/L	1	9/22/2011 5:23 PM
Toxaphene	ND	0.21	UH	µg/L	1	9/22/2011 5:23 PM
Surr: Decachlorobiphenyl	113	30-135	H	%REC	1	9/22/2011 5:23 PM
Surr: Tetrachloro-m-xylene	90.9	25-140	H	%REC	1	9/22/2011 5:23 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/22/2011 4:53 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/22/2011 4:53 AM
Total PCBs	ND	0.2	U	µg/L	1	9/22/2011 4:53 AM
Surr: Decachlorobiphenyl	124	40-135		%REC	1	9/22/2011 4:53 AM
Surr: Tetrachloro-m-xylene	100	40-135		%REC	1	9/22/2011 4:53 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.029	0.010		mg/L	1	9/1/2011 3:45 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-045	**Matrix:**	Elutriate
Client Sample ID:	MW-11-22		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.4	0.60		µg/L	2	9/6/2011 11:06 AM
Barium	230	10		µg/L	2	9/6/2011 11:06 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 11:06 AM
Chromium	1.0	4.0	J	µg/L	2	9/6/2011 11:06 AM
Copper	5.2	2.0		µg/L	2	9/6/2011 11:06 AM
Iron	100	40		µg/L	2	9/6/2011 11:06 AM
Lead	0.33	0.40	J	µg/L	2	9/6/2011 11:06 AM
Manganese	160	2.0		µg/L	2	9/6/2011 11:06 AM
Nickel	2.1	4.0	J	µg/L	2	9/6/2011 11:06 AM
Selenium	0.70	2.0	J	µg/L	2	9/6/2011 11:06 AM
Zinc	77	20		µg/L	2	9/6/2011 11:06 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:11 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:42 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Acenaphthene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Acenaphthylene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Anthracene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Benz(a)anthracene	ND	1.2	UH	µg/L	1	9/16/2011 8:42 PM
Benzo(a)pyrene	ND	1.2	UH	µg/L	1	9/16/2011 8:42 PM
Benzo(b)fluoranthene	ND	1.2	UH	µg/L	1	9/16/2011 8:42 PM
Benzo(g,h,i)perylene	ND	2.4	UH	µg/L	1	9/16/2011 8:42 PM
Benzo(k)fluoranthene	ND	1.2	UH	µg/L	1	9/16/2011 8:42 PM
Chrysene	ND	1.2	UH	µg/L	1	9/16/2011 8:42 PM
Dibenz(a,h)anthracene	ND	2.4	UH	µg/L	1	9/16/2011 8:42 PM
Fluoranthene	ND	2.4	UH	µg/L	1	9/16/2011 8:42 PM
Fluorene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Indeno(1,2,3-cd)pyrene	ND	2.4	UH	µg/L	1	9/16/2011 8:42 PM
Naphthalene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Phenanthrene	ND	2.4	UH	µg/L	1	9/16/2011 8:42 PM
Pyrene	ND	6.0	UH	µg/L	1	9/16/2011 8:42 PM
Surr: 2-Fluorobiphenyl	57.4	50-110	H	%REC	1	9/16/2011 8:42 PM
Surr: Nitrobenzene-d5	67.4	40-110	H	%REC	1	9/16/2011 8:42 PM
Surr: Terphenyl-d14	89.3	50-135	H	%REC	1	9/16/2011 8:42 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-045	**Matrix:**	Elutriate
Client Sample ID:	MW-11-22		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	9.3	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	10	0.10		mg/L	1	9/7/2011 3:54 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-046	**Matrix:**	Elutriate
Client Sample ID:	MW-11-23		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
4,4'-DDE	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
4,4'-DDT	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Aldrin	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
alpha-BHC	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
alpha-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
beta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Chlordane (Technical)	ND	0.22	UH	µg/L	1	9/22/2011 6:09 PM
delta-BHC	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Dieldrin	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Endosulfan I	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Endosulfan II	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Endosulfan sulfate	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Endrin	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Endrin aldehyde	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Endrin ketone	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
gamma-BHC	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
gamma-Chlordane	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Heptachlor	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Heptachlor epoxide	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Methoxychlor	ND	0.011	UH	µg/L	1	9/22/2011 6:09 PM
Toxaphene	ND	0.22	UH	µg/L	1	9/22/2011 6:09 PM
Surr: Decachlorobiphenyl	111	30-135	H	%REC	1	9/22/2011 6:09 PM
Surr: Tetrachloro-m-xylene	82.6	25-140	H	%REC	1	9/22/2011 6:09 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/22/2011 5:28 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/22/2011 5:28 AM
Total PCBs	ND	0.2	U	µg/L	1	9/22/2011 5:28 AM
Surr: Decachlorobiphenyl	126	40-135		%REC	1	9/22/2011 5:28 AM
Surr: Tetrachloro-m-xylene	101	40-135		%REC	1	9/22/2011 5:28 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.030	0.010		mg/L	1	9/1/2011 3:45 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-046	**Matrix:**	Elutriate
Client Sample ID:	MW-11-23		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: AV**
Arsenic	1.3	0.60		µg/L	2	9/6/2011 11:07 AM
Barium	210	10		µg/L	2	9/6/2011 11:07 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 11:07 AM
Chromium	0.89	4.0	J	µg/L	2	9/6/2011 11:07 AM
Copper	3.8	2.0		µg/L	2	9/6/2011 11:07 AM
Iron	97	40		µg/L	2	9/6/2011 11:07 AM
Lead	0.33	0.40	J	µg/L	2	9/6/2011 11:07 AM
Manganese	210	2.0		µg/L	2	9/6/2011 11:07 AM
Nickel	2.2	4.0	J	µg/L	2	9/6/2011 11:07 AM
Selenium	0.93	2.0	J	µg/L	2	9/6/2011 11:07 AM
Zinc	69	20		µg/L	2	9/6/2011 11:07 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS	**Method: 6020A**			**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:12 PM
Metals Kit - Aqueous Mercury	**Method: SW7470A**			**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:44 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds	**Method: 8270D**			**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Acenaphthene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Acenaphthylene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Anthracene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Benz(a)anthracene	ND	1.1	UH	µg/L	1	9/16/2011 9:51 PM
Benzo(a)pyrene	ND	1.1	UH	µg/L	1	9/16/2011 9:51 PM
Benzo(b)fluoranthene	ND	1.1	UH	µg/L	1	9/16/2011 9:51 PM
Benzo(g,h,i)perylene	ND	2.1	UH	µg/L	1	9/16/2011 9:51 PM
Benzo(k)fluoranthene	ND	1.1	UH	µg/L	1	9/16/2011 9:51 PM
Chrysene	ND	1.1	UH	µg/L	1	9/16/2011 9:51 PM
Dibenz(a,h)anthracene	ND	2.1	UH	µg/L	1	9/16/2011 9:51 PM
Fluoranthene	ND	2.1	UH	µg/L	1	9/16/2011 9:51 PM
Fluorene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Indeno(1,2,3-cd)pyrene	ND	2.1	UH	µg/L	1	9/16/2011 9:51 PM
Naphthalene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Phenanthrene	ND	2.1	UH	µg/L	1	9/16/2011 9:51 PM
Pyrene	ND	5.3	UH	µg/L	1	9/16/2011 9:51 PM
Surr: 2-Fluorobiphenyl	64.4	50-110	H	%REC	1	9/16/2011 9:51 PM
Surr: Nitrobenzene-d5	79.1	40-110	H	%REC	1	9/16/2011 9:51 PM
Surr: Terphenyl-d14	87.9	50-135	H	%REC	1	9/16/2011 9:51 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/25/2011 12:00:00 AM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-046	**Matrix:**	Elutriate
Client Sample ID:	MW-11-23		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	10	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	12	0.10		mg/L	1	9/7/2011 3:59 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:11:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-047	**Matrix:**	Elutriate
Client Sample ID:	MW-11-01 (background)		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides		**Method: SW8081A**		**SW3510C**		**Analyst: MB**
4,4'-DDD	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
4,4'-DDE	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
4,4'-DDT	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Aldrin	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
alpha-BHC	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
alpha-Chlordane	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
beta-BHC	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Chlordane (Technical)	ND	0.20	U	µg/L	1	9/13/2011 9:07 PM
delta-BHC	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Dieldrin	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Endosulfan I	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Endosulfan II	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Endosulfan sulfate	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Endrin	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Endrin aldehyde	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Endrin ketone	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
gamma-BHC	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
gamma-Chlordane	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Heptachlor	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Heptachlor epoxide	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Methoxychlor	ND	0.010	U	µg/L	1	9/13/2011 9:07 PM
Toxaphene	ND	0.20	U	µg/L	1	9/13/2011 9:07 PM
Surr: Decachlorobiphenyl	94.7	30-135		%REC	1	9/13/2011 9:07 PM
Surr: Tetrachloro-m-xylene	72.1	25-140		%REC	1	9/13/2011 9:07 PM
Polychlorinated Biphenyls		**Method: SW8082**		**SW3510C**		**Analyst: MB**
Aroclor 1016	ND	0.1	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1221	ND	0.1	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1232	ND	0.2	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1242	ND	0.2	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1248	ND	0.1	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1254	ND	0.2	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1260	ND	0.2	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1262	ND	0.2	U	µg/L	1	9/13/2011 9:03 AM
Aroclor 1268	ND	0.1	U	µg/L	1	9/13/2011 9:03 AM
Total PCBs	ND	0.2	U	µg/L	1	9/13/2011 9:03 AM
Surr: Decachlorobiphenyl	133	40-135		%REC	1	9/13/2011 9:03 AM
Surr: Tetrachloro-m-xylene	105	40-135		%REC	1	9/13/2011 9:03 AM
Nutrients Kit		**Method: A4500-P-F**				**Analyst: AB2**
Total Phosphorus						
Phosphorus, Total (As P)	0.015	0.010		mg/L	1	9/1/2011 3:45 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:11:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-047	**Matrix:**	Elutriate
Client Sample ID:	MW-11-01 (background)		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Metals Kit - Aqueous Metals, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: AV**
Arsenic	0.72	0.60		µg/L	2	9/6/2011 11:09 AM
Barium	27	10		µg/L	2	9/6/2011 11:09 AM
Cadmium	ND	0.40	U	µg/L	2	9/6/2011 11:09 AM
Chromium	0.77	4.0	J	µg/L	2	9/6/2011 11:09 AM
Copper	0.80	2.0	J	µg/L	2	9/6/2011 11:09 AM
Iron	71	80	J	µg/L	2	9/6/2011 11:09 AM
Lead	0.19	0.40	J	µg/L	2	9/6/2011 11:09 AM
Manganese	13	2.0		µg/L	2	9/6/2011 11:09 AM
Nickel	1.9	4.0	J	µg/L	2	9/6/2011 11:09 AM
Selenium	1.0	2.0	J	µg/L	2	9/6/2011 11:09 AM
Zinc	70	20		µg/L	2	9/6/2011 11:09 AM
Metals Kit - Aqueous Silver and Antimony, ICP/MS		**Method: 6020A**		**SW3020A**		**Analyst: at**
Silver	ND	1.5	U	µg/L	5	9/6/2011 8:02 PM
Metals Kit - Aqueous Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	ND	0.20	U	µg/L	1	9/7/2011 3:45 PM
Polynuclear Aromatic Hydrocarbons Semi-Volatile Organic Compounds		**Method: 8270D**		**SW3510C**		**Analyst: MT3**
2-Methylnaphthalene	ND	5.0	UH	µg/L	1	9/16/2011 10:14 PM
Acenaphthene	ND	5.0	UH	µg/L	1	9/16/2011 10:14 PM
Acenaphthylene	ND	5.0	UH	µg/L	1	9/16/2011 10:14 PM
Anthracene	ND	5.0	UH	µg/L	1	9/16/2011 10:14 PM
Benz(a)anthracene	ND	1.0	UH	µg/L	1	9/16/2011 10:14 PM
Benzo(a)pyrene	ND	1.0	UH	µg/L	1	9/16/2011 10:14 PM
Benzo(b)fluoranthene	ND	1.0	UH	µg/L	1	9/16/2011 10:14 PM
Benzo(g,h,i)perylene	ND	2.0	UH	µg/L	1	9/16/2011 10:14 PM
Benzo(k)fluoranthene	ND	1.0	UH	µg/L	1	9/16/2011 10:14 PM
Chrysene	ND	1.0	UH	µg/L	1	9/16/2011 10:14 PM
Dibenz(a,h)anthracene	ND	2.0	UH	µg/L	1	9/16/2011 10:14 PM
Fluoranthene	ND	2.0	UH	µg/L	1	9/16/2011 10:14 PM
Fluorene	ND	5.0	UH	µg/L	1	9/16/2011 10:14 PM
Indeno(1,2,3-cd)pyrene	ND	2.0	UH	µg/L	1	9/16/2011 10:14 PM
Naphthalene	ND	5.0	UH	µg/L	1	9/16/2011 10:14 PM
Phenanthrene	ND	2.0	UH	µg/L	1	9/16/2011 10:14 PM
Pyrene	ND	5.0	UH	µg/L	1	9/23/2011 4:35 PM
Surr: 2-Fluorobiphenyl	67.1	50-110	H	%REC	1	9/16/2011 10:14 PM
Surr: Nitrobenzene-d5	80.6	40-110	H	%REC	1	9/16/2011 10:14 PM
Surr: Terphenyl-d14	98.0	50-135	H	%REC	1	9/16/2011 10:14 PM

RTI Laboratories - Analytical Report

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client:	USACE- Detroit District	**Collection Date:**	8/24/2011 12:11:00 PM
Project:	Sediment Sampling Milwaukee		
Lab ID:	1108A20-047	**Matrix:**	Elutriate
Client Sample ID:	MW-11-01 (background)		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Nutrients Kit	**Method: E351.2**					**Analyst: JE**
Total Kjeldahl Nitrogen - TKN						
Nitrogen, Kjeldahl, Total	0.37	0.20	B	mg/L	1	9/2/2011 1:00 PM
Nutrients Kit	**Method: A4500-NH3-D**					**Analyst: PG**
Ammonia						
Nitrogen, Ammonia	0.070	0.10	J	mg/L	1	9/7/2011 4:22 PM

RTI Laboratories - DATES REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-001A	MW-11-01	8/24/2011 12:11 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 5:32 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 12:20 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 5:24 PM
1108A20-001B	MW-11-01	8/24/2011 12:11 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-001C	MW-11-01	8/24/2011 12:11 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-001D	MW-11-01	8/24/2011 12:11 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:44 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 2:33 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 1:57 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:18 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:40 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 11:47 AM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-002A	MW-11-02	8/24/2011 1:03 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 6:18 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 12:49 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 8:37 PM
1108A20-002B	MW-11-02	8/24/2011 1:03 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-002C	MW-11-02	8/24/2011 1:03 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM

RTI Laboratories - DATES REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-002D	MW-11-02	8/24/2011 1:03 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:44 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 2:54 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 1:59 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:19 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:38 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 12:50 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-003A	MW-11-03	8/24/2011 2:14 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 7:03 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 1:18 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 5:11 PM
1108A20-003B	MW-11-03	8/24/2011 2:14 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-003C	MW-11-03	8/24/2011 2:14 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-003D	MW-11-03	8/24/2011 2:14 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:44 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 2:56 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:00 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:20 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:40 PM

RTI Laboratories - DATES REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-003D	MW-11-03	8/24/2011 2:14 PM	Sediment				
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 1:03 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:30 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-004A	MW-11-04	8/24/2011 11:08 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 7:49 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 1:47 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 7:49 PM
1108A20-004B	MW-11-04	8/24/2011 11:08 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-004C	MW-11-04	8/24/2011 11:08 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-004D	MW-11-04	8/24/2011 11:08 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:44 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 2:57 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:02 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:20 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:41 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 1:18 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:30 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-005A	MW-11-05	8/24/2011 10:05 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 8:35 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 2:17 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 8:13 PM

RTI Laboratories - DATES REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-005B	MW-11-05	8/24/2011 10:05 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-005C	MW-11-05	8/24/2011 10:05 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-005D	MW-11-05	8/24/2011 10:05 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:44 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 2:59 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:03 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:21 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:45 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 1:47 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:30 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-006A	MW-11-06	8/24/2011 3:35 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 9:21 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 2:46 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 7:00 PM
1108A20-006B	MW-11-06	8/24/2011 3:35 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-006C	MW-11-06	8/24/2011 3:35 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-006D	MW-11-06	8/24/2011 3:35 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:44 PM

RTI Laboratories - DATES REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-006D	MW-11-06	8/24/2011 3:35 PM	Sediment				
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:03 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:12 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:36 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:46 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 2:06 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:30 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-007A	MW-11-07	8/24/2011 4:45 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 10:07 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 3:15 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 7:25 PM
1108A20-007B	MW-11-07	8/24/2011 4:45 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-007C	MW-11-07	8/24/2011 4:45 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-007D	MW-11-07	8/24/2011 4:45 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:47 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:05 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:13 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:36 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:46 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 2:23 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:30 PM

RTI Laboratories - DATES REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-007D	MW-11-07	8/24/2011 4:45 PM	Sediment				
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-008A	MW-11-08	8/24/2011 5:56 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 10:53 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 3:44 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 5:48 PM
1108A20-008B	MW-11-08	8/24/2011 5:56 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-008C	MW-11-08	8/24/2011 5:56 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-008D	MW-11-08	8/24/2011 5:56 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/6/2011 6:56 AM	9/7/2011 1:15 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:06 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:14 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:37 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:47 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 2:39 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:30 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-009A	MW-11-09	8/24/2011 7:12 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 11:39 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 4:26 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 6:12 PM
1108A20-009B	MW-11-09	8/24/2011 7:12 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM

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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-009C	MW-11-09	8/24/2011 7:12 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-009D	MW-11-09	8/24/2011 7:12 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:27 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:09 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:16 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:38 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:48 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 2:59 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:31 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-010A	MW-11-10	8/26/2011 11:50 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 12:25 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 5:01 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 6:36 PM
1108A20-010B	MW-11-10	8/26/2011 11:50 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-010C	MW-11-10	8/26/2011 11:50 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-010D	MW-11-10	8/26/2011 11:50 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:27 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:11 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 2:17 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-010D	MW-11-10	8/26/2011 11:50 AM	Sediment				
				SW_6020S-Metals, ICP/MS		9/2/2011 8:00 AM	9/6/2011 4:39 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:01 AM	9/2/2011 6:49 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 3:19 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:31 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-011A	MW-11-11	8/26/2011 11:15 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 7:18 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 5:35 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 5:35 PM
1108A20-011B	MW-11-11	8/26/2011 11:15 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-011C	MW-11-11	8/26/2011 11:15 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-011D	MW-11-11	8/26/2011 11:15 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:27 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:12 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 2:45 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:00 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:15 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		9/1/2011 3:34 PM	9/3/2011 4:18 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:31 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-012A	MW-11-12	8/26/2011 10:30 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 8:03 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-012A	MW-11-12	8/26/2011 10:30 AM	Sediment				
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 6:09 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 5:58 PM
1108A20-012B	MW-11-12	8/26/2011 10:30 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-012C	MW-11-12	8/26/2011 10:30 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-012D	MW-11-12	8/26/2011 10:30 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:27 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:17 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 2:47 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:00 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:16 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 6:12 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:31 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-013A	MW-11-13	8/26/2011 9:12 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 8:49 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 6:43 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 6:22 PM
1108A20-013B	MW-11-13	8/26/2011 9:12 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 3:45 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 3:45 PM
1108A20-013C	MW-11-13	8/26/2011 9:12 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-013D	MW-11-13	8/26/2011 9:12 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 11:00 AM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:31 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:18 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 2:48 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:01 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:17 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 11:15 AM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 6:41 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:54 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:15 AM
1108A20-014A	MW-11-14	8/25/2011 10:58 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 9:35 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 9:36 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 7:42 AM	9/23/2011 6:45 PM
1108A20-014B	MW-11-14	8/25/2011 10:58 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-014C	MW-11-14	8/25/2011 10:58 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-014D	MW-11-14	8/25/2011 10:58 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:31 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:24 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 2:50 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:02 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:18 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-014D	MW-11-14	8/25/2011 10:58 AM	Sediment				
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 12:53 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:54 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-015A	MW-11-15	8/25/2011 11:07 AM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 10:21 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 10:10 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/23/2011 7:09 PM
1108A20-015B	MW-11-15	8/25/2011 11:07 AM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-015C	MW-11-15	8/25/2011 11:07 AM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-015D	MW-11-15	8/25/2011 11:07 AM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:31 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:26 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 2:51 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:03 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:23 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 2:03 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:54 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-016A	MW-11-16	8/25/2011 12:43 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 11:07 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 10:44 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/23/2011 7:32 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-016B	MW-11-16	8/25/2011 12:43 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-016C	MW-11-16	8/25/2011 12:43 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-016D	MW-11-16	8/25/2011 12:43 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 5:31 PM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:30 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:09 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:10 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:24 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 2:22 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-017A	MW-11-17	8/25/2011 2:23 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/14/2011 11:52 PM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 11:18 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/28/2011 6:50 PM
1108A20-017B	MW-11-17	8/25/2011 2:23 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-017C	MW-11-17	8/25/2011 2:23 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-017D	MW-11-17	8/25/2011 2:23 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/7/2011 6:49 AM	9/7/2011 7:03 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-017D	MW-11-17	8/25/2011 2:23 PM	Sediment				
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:34 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:11 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:11 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:24 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 2:41 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-018A	MW-11-18	8/25/2011 2:28 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/15/2011 12:38 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/13/2011 11:53 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/28/2011 6:26 PM
1108A20-018B	MW-11-18	8/25/2011 2:28 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-018C	MW-11-18	8/25/2011 2:28 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-018D	MW-11-18	8/25/2011 2:28 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/8/2011 6:58 AM	9/9/2011 11:28 AM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:36 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:12 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:12 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:25 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 3:00 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM

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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-018D	MW-11-18	8/25/2011 2:28 PM	Sediment				
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-019A	MW-11-19	8/25/2011 3:41 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/15/2011 1:24 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 12:27 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/28/2011 7:13 PM
1108A20-019B	MW-11-19	8/25/2011 3:41 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-019C	MW-11-19	8/25/2011 3:41 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-019D	MW-11-19	8/25/2011 3:41 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/8/2011 6:58 AM	9/9/2011 11:28 AM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:37 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:13 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:13 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:26 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 3:20 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-020A	MW-11-20	8/25/2011 6:36 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		8/30/2011 7:53 AM	9/15/2011 2:10 AM
				SW_8082S-Polychlorinated Biphenyls		8/30/2011 7:55 AM	9/14/2011 1:01 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	10/11/2011 3:39 PM
1108A20-020B	MW-11-20	8/25/2011 6:36 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-020C	MW-11-20	8/25/2011 6:36 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-020D	MW-11-20	8/25/2011 6:36 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:18 PM	8/30/2011 9:30 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/8/2011 6:58 AM	9/9/2011 11:28 AM
				SW_9071-Hexane Extractable Materials (HEM)		9/1/2011 2:30 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:42 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:15 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:13 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:27 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 3:36 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 4:55 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-021A	MW-11-21	8/25/2011 6:40 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		9/7/2011 11:26 AM	9/22/2011 6:40 AM
				SW_8082S-Polychlorinated Biphenyls		8/31/2011 12:53 PM	9/21/2011 11:46 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	10/19/2011 5:13 PM
1108A20-021B	MW-11-21	8/25/2011 6:40 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-021C	MW-11-21	8/25/2011 6:40 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-021D	MW-11-21	8/25/2011 6:40 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:20 PM	8/30/2011 9:45 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/8/2011 6:58 AM	9/9/2011 11:28 AM
				SW_9071-Hexane Extractable Materials (HEM)		9/2/2011 2:32 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:43 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:16 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-021D	MW-11-21	8/25/2011 6:40 PM	Sediment				
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:14 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:27 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 3:56 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 3:33 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-022A	MW-11-22	8/25/2011 5:10 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		9/7/2011 11:26 AM	9/22/2011 7:41 PM
				SW_8082S-Polychlorinated Biphenyls		8/31/2011 12:53 PM	9/22/2011 12:20 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/30/2011 2:10 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	10/18/2011 2:10 PM
1108A20-022B	MW-11-22	8/25/2011 5:10 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-022C	MW-11-22	8/25/2011 5:10 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-022D	MW-11-22	8/25/2011 5:10 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:20 PM	8/30/2011 9:45 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/8/2011 6:58 AM	9/9/2011 11:31 AM
				SW_9071-Hexane Extractable Materials (HEM)		9/2/2011 2:32 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:45 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:18 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:15 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:28 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 4:14 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 3:33 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-023A	MW-11-23	8/25/2011 5:39 PM	Sediment				
				SW_8081S-Organochlorine Pesticides		9/7/2011 11:26 AM	9/22/2011 8:27 PM
				SW_8082S-Polychlorinated Biphenyls		8/31/2011 12:53 PM	9/22/2011 12:54 AM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	9/30/2011 4:32 PM
				SW_8270S-Semi-Volatile Organic Compounds		9/1/2011 10:37 AM	10/19/2011 5:38 PM
1108A20-023B	MW-11-23	8/25/2011 5:39 PM	Sediment				
				PMOIST-PERCENT MOISTURE			8/31/2011 4:25 PM
				ASTM-D2216-E-Percent Solids and/or Moisture			8/31/2011 4:25 PM
1108A20-023C	MW-11-23	8/25/2011 5:39 PM	Sediment				
				ASTM-D6145-Sediment in Watersheds			8/30/2011 9:04 AM
1108A20-023D	MW-11-23	8/25/2011 5:39 PM	Sediment				
				EPA_350.1-S-Ammonia		8/29/2011 3:20 PM	8/30/2011 9:45 AM
				EPA_410.4-S-Chemical Oxygen Demand, COD			9/3/2011 12:00 PM
				SW_9012S-Cyanide		9/8/2011 6:58 AM	9/9/2011 11:28 AM
				SW_9071-Hexane Extractable Materials (HEM)		9/2/2011 2:32 PM	9/3/2011 12:00 AM
				SW_7471S-Mercury		9/13/2011 8:00 AM	9/13/2011 3:46 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 3:19 PM
				SW_6020S-Metals, ICP/MS		9/2/2011 8:02 AM	9/6/2011 5:16 PM
				SW_6020S-SA-Silver and Antimony, ICP/MS		9/2/2011 8:03 AM	9/2/2011 7:29 PM
				EPA_351.2-S-Total Kjeldahl Nitrogen - TKN		8/30/2011 2:30 PM	9/1/2011 12:30 PM
				SW_9060S-Total Organic Carbon		8/30/2011 5:47 PM	9/2/2011 4:38 PM
				SM_4500-P-FS-Total Phosphorus		8/30/2011 11:56 AM	8/31/2011 3:33 PM
				SM_2540G-Total, Fixed and Volatile Solids in Solids			8/31/2011 9:30 AM
1108A20-024C	MW-11-01	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 4:41 PM
1108A20-024D	MW-11-01	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 12:29 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/12/2011 10:21 PM
1108A20-024E	MW-11-01	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:17 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-024E	MW-11-01	8/24/2011 12:00 AM	Elutriate				
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:36 AM
1108A20-024F	MW-11-01	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:38 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:41 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:40 PM
1108A20-025C	MW-11-02	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 5:51 PM
1108A20-025D	MW-11-02	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 1:15 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/12/2011 10:50 PM
1108A20-025E	MW-11-02	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:24 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:36 AM
1108A20-025F	MW-11-02	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:43 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:46 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:40 PM
1108A20-026C	MW-11-03	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 6:14 PM
1108A20-026D	MW-11-03	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 2:01 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/12/2011 11:19 PM
1108A20-026E	MW-11-03	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:28 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:36 AM
1108A20-026F	MW-11-03	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:44 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:48 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:41 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-027C	MW-11-04	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 6:37 PM
1108A20-027D	MW-11-04	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 2:46 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/12/2011 11:48 PM
1108A20-027E	MW-11-04	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:32 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:36 AM
1108A20-027F	MW-11-04	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:46 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:49 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:42 PM
1108A20-028C	MW-11-05	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 7:01 PM
1108A20-028D	MW-11-05	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 3:32 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 12:17 AM
1108A20-028E	MW-11-05	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:37 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:36 AM
1108A20-028F	MW-11-05	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:47 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:55 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:45 PM
1108A20-029C	MW-11-06	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 7:24 PM
1108A20-029D	MW-11-06	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 4:18 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 12:47 AM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-029E	MW-11-06	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:45 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:36 AM
1108A20-029F	MW-11-06	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:49 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:57 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:46 PM
1108A20-030C	MW-11-07	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 7:47 PM
1108A20-030D	MW-11-07	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 5:04 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 1:16 AM
1108A20-030E	MW-11-07	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:46 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-030F	MW-11-07	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:53 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 9:58 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:46 PM
1108A20-031C	MW-11-08	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 8:11 PM
1108A20-031D	MW-11-08	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 5:50 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 1:45 AM
1108A20-031E	MW-11-08	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:53 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-031F	MW-11-08	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:55 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-031F	MW-11-08	8/24/2011 12:00 AM	Elutriate				
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 10:00 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:47 PM
1108A20-032C	MW-11-09	8/24/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 8:34 PM
1108A20-032D	MW-11-09	8/24/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 6:36 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 2:14 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2012 2:14 AM
1108A20-032E	MW-11-09	8/24/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:54 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-032F	MW-11-09	8/24/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:56 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 10:01 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:48 PM
1108A20-033C	MW-11-10	8/26/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 8:57 PM
1108A20-033D	MW-11-10	8/26/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 7:22 AM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 2:43 AM
1108A20-033E	MW-11-10	8/26/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 2:57 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-033F	MW-11-10	8/26/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:57 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 10:03 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:49 PM
1108A20-034C	MW-11-11	8/26/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 9:20 PM

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1108A20-034D	MW-11-11	8/26/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 2:15 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 4:41 AM
1108A20-034E	MW-11-11	8/26/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:08 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-034F	MW-11-11	8/26/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 2:59 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 10:04 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:49 PM
1108A20-035C	MW-11-12	8/26/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 9:43 PM
1108A20-035D	MW-11-12	8/26/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 3:01 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 5:10 AM
1108A20-035E	MW-11-12	8/26/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:13 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-035F	MW-11-12	8/26/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 3:03 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 10:06 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:50 PM
1108A20-036C	MW-11-13	8/26/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 10:07 PM
1108A20-036D	MW-11-13	8/26/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 3:46 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 5:39 AM
1108A20-036E	MW-11-13	8/26/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:20 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-036E	MW-11-13	8/26/2011 12:00 AM	Elutriate				
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-036F	MW-11-13	8/26/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 3:05 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:16 AM	9/6/2011 10:07 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:17 AM	9/6/2011 7:51 PM
1108A20-037C	MW-11-14	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 10:30 PM
1108A20-037D	MW-11-14	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 4:32 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 6:08 AM
1108A20-037E	MW-11-14	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:27 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-037F	MW-11-14	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 3:06 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 10:46 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:02 PM
1108A20-038C	MW-11-15	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 10:53 PM
1108A20-038D	MW-11-15	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 5:18 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 6:37 AM
1108A20-038E	MW-11-15	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:28 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:54 AM	9/2/2011 9:20 AM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-038F	MW-11-15	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:13 AM	9/7/2011 3:11 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 10:50 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:03 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-039C	MW-11-16	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/6/2011 11:16 PM
1108A20-039D	MW-11-16	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 6:04 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 7:07 AM
1108A20-039E	MW-11-16	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:33 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:41 AM
1108A20-039F	MW-11-16	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:27 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 10:52 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:04 PM
1108A20-040C	MW-11-17	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/16/2011 7:33 PM
1108A20-040D	MW-11-17	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 6:50 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 7:36 AM
1108A20-040E	MW-11-17	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:42 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:42 AM
1108A20-040F	MW-11-17	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:32 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 10:54 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:07 PM
1108A20-041C	MW-11-18	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/16/2011 7:56 PM
1108A20-041D	MW-11-18	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 7:36 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 8:05 AM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-041E	MW-11-18	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:44 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:42 AM
1108A20-041F	MW-11-18	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:33 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:00 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:08 PM
1108A20-042C	MW-11-19	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/16/2011 9:05 PM
1108A20-042D	MW-11-19	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 8:21 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 8:34 AM
1108A20-042E	MW-11-19	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:57 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:42 AM
1108A20-042F	MW-11-19	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:35 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:01 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:09 PM
1108A20-043C	MW-11-20	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/2/2011 7:44 AM	9/16/2011 9:28 PM
1108A20-043D	MW-11-20	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		9/6/2011 7:43 AM	9/22/2011 3:52 PM
				SW_8082A-Polychlorinated Biphenyls		9/6/2011 7:42 AM	9/22/2011 3:45 AM
1108A20-043E	MW-11-20	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			8/31/2011 3:59 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		8/31/2011 4:00 PM	9/1/2011 10:42 AM
1108A20-043F	MW-11-20	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:39 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-043F	MW-11-20	8/25/2011 12:00 AM	Elutriate				
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:03 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:09 PM
1108A20-044C	MW-11-21	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/6/2011 7:37 AM	9/16/2011 8:19 PM
1108A20-044D	MW-11-21	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		9/6/2011 7:43 AM	9/22/2011 4:38 PM
				SW_8082A-Polychlorinated Biphenyls		9/6/2011 7:42 AM	9/22/2011 4:19 AM
1108A20-044E	MW-11-21	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			9/7/2011 3:51 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		9/1/2011 9:59 AM	9/1/2011 3:45 PM
1108A20-044F	MW-11-21	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:41 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:04 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:10 PM
1108A20-045C	MW-11-22	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/6/2011 7:37 AM	9/16/2011 8:42 PM
1108A20-045D	MW-11-22	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		9/6/2011 7:43 AM	9/22/2011 5:23 PM
				SW_8082A-Polychlorinated Biphenyls		9/6/2011 7:42 AM	9/22/2011 4:53 AM
1108A20-045E	MW-11-22	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			9/7/2011 3:54 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		9/1/2011 9:59 AM	9/1/2011 3:45 PM
1108A20-045F	MW-11-22	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:42 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:06 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:11 PM
1108A20-046C	MW-11-23	8/25/2011 12:00 AM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/6/2011 7:37 AM	9/16/2011 9:51 PM

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1108A20-046D	MW-11-23	8/25/2011 12:00 AM	Elutriate				
				SW_8081A-Organochlorine Pesticides		9/6/2011 7:43 AM	9/22/2011 6:09 PM
				SW_8082A-Polychlorinated Biphenyls		9/6/2011 7:42 AM	9/22/2011 5:28 AM
1108A20-046E	MW-11-23	8/25/2011 12:00 AM	Elutriate				
				SM_4500-NH3-D-Ammonia			9/7/2011 3:59 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		9/1/2011 9:59 AM	9/1/2011 3:45 PM
1108A20-046F	MW-11-23	8/25/2011 12:00 AM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:44 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:07 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:12 PM
1108A20-047A	MW-11-01 (background)	8/24/2011 12:11 PM	Elutriate				
				SM_4500-NH3-D-Ammonia			9/7/2011 4:22 PM
				EPA_351.2-Total Kjeldahl Nitrogen - TKN		9/1/2011 11:56 AM	9/2/2011 1:00 PM
				SM_4500-P-F-Total Phosphorus		9/1/2011 9:59 AM	9/1/2011 3:45 PM
1108A20-047B	MW-11-01 (background)	8/24/2011 12:11 PM	Elutriate				
				SW_7470A-Mercury		9/7/2011 8:15 AM	9/7/2011 3:45 PM
				SW_6020A-Metals, ICP/MS		9/1/2011 10:19 AM	9/6/2011 11:09 AM
				SW_6020A-SA-Silver and Antimony, ICP/MS		9/1/2011 10:20 AM	9/6/2011 8:02 PM
1108A20-047C	MW-11-01 (background)	8/24/2011 12:11 PM	Elutriate				
				SW_8081A-Organochlorine Pesticides		8/31/2011 10:21 AM	9/13/2011 9:07 PM
				SW_8082A-Polychlorinated Biphenyls		8/31/2011 10:22 AM	9/13/2011 9:03 AM
1108A20-047D	MW-11-01 (background)	8/24/2011 12:11 PM	Elutriate				
				SW_8270A-Semi-Volatile Organic Compounds		9/6/2011 7:37 AM	9/16/2011 10:14 PM
				SW_8270A-Semi-Volatile Organic Compounds		9/6/2011 7:37 AM	9/23/2011 4:35 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: ASTM-D2216-E**

Sample ID:	MBLK	Samp Type:	MBLK	Test Code:	ASTM-D2216-E	Units:	%	Prep Date:		RunNo:	42583	
Client ID:	PBS	Batch ID:	R42583	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	825190	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Solids	ND	1.0										

Sample ID:	1108A20-001BDUP	Samp Type:	DUP	Test Code:	ASTM-D2216-E	Units:	%	Prep Date:		RunNo:	42583	
Client ID:	MW-11-01	Batch ID:	R42583	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	825192	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Solids	56	1.0						56.96	1.12	20		

Sample ID:	1108A20-011BDUP	Samp Type:	DUP	Test Code:	ASTM-D2216-E	Units:	%	Prep Date:		RunNo:	42583	
Client ID:	MW-11-11	Batch ID:	R42583	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	825203	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Solids	50	1.0										

Sample ID:	MBLK	Samp Type:	MBLK	Test Code:	ASTM-D2216-E	Units:	%	Prep Date:		RunNo:	42584	
Client ID:	PBS	Batch ID:	R42584	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	825219	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Solids	ND	1.0										U

Sample ID:	1108A20-014BDUP	Samp Type:	DUP	Test Code:	ASTM-D2216-E	Units:	%	Prep Date:		RunNo:	42584	
Client ID:	MW-11-14	Batch ID:	R42584	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	825221	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Solids	38	1.0						38.46	1.36	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_350.1-S**

Sample ID:	LCS-23404	Samp Type:	LCS	Test Code:	EPA_350.1-S	Units:	mg/Kg	Prep Date:	8/29/2011	RunNo:	42515	
Client ID:	LCSS	Batch ID:	23404	TestNo:	E350.1			Analysis Date:	8/30/2011	SeqNo:	823895	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	98	4.0	100.0	0	98.1	80	120				B	

Sample ID:	MB-23404	Samp Type:	MBLK	Test Code:	EPA_350.1-S	Units:	mg/Kg	Prep Date:	8/29/2011	RunNo:	42515	
Client ID:	PBS	Batch ID:	23404	TestNo:	E350.1			Analysis Date:	8/30/2011	SeqNo:	823896	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	4.2	4.0										

Sample ID:	1108A20-001DDUP	Samp Type:	DUP	Test Code:	EPA_350.1-S	Units:	mg/Kg-dry	Prep Date:	8/29/2011	RunNo:	42515	
Client ID:	MW-11-01	Batch ID:	23404	TestNo:	E350.1			Analysis Date:	8/30/2011	SeqNo:	823898	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	150	5.6						146.2	5.11	25	B	

Sample ID:	1108A20-011DDUP	Samp Type:	DUP	Test Code:	EPA_350.1-S	Units:	mg/Kg-dry	Prep Date:	8/29/2011	RunNo:	42515	
Client ID:	MW-11-11	Batch ID:	23404	TestNo:	E350.1			Analysis Date:	8/30/2011	SeqNo:	823911	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	230	12						222.4	1.96	25		

Sample ID:	LCS-23405	Samp Type:	LCS	Test Code:	EPA_350.1-S	Units:	mg/Kg	Prep Date:	8/29/2011	RunNo:	42517	
Client ID:	LCSS	Batch ID:	23405	TestNo:	E350.1			Analysis Date:	8/30/2011	SeqNo:	823932	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	98	4.0	100.0	0	98.2	80	120				B	

Sample ID:	MB-23405	Samp Type:	MBLK	Test Code:	EPA_350.1-S	Units:	mg/Kg	Prep Date:	8/29/2011	RunNo:	42517	
Client ID:	PBS	Batch ID:	23405	TestNo:	E350.1			Analysis Date:	8/30/2011	SeqNo:	823933	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	4.3	4.0										

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_350.1-S**

Sample ID:	**1108A20-021DDUP**	Samp Type:	**DUP**	Test Code:	**EPA_350.1-S**	Units:	**mg/Kg-dry**	Prep Date:	**8/29/2011**	RunNo:	**42517**
Client ID:	**MW-11-21**	Batch ID:	**23405**	TestNo:	**E350.1**			Analysis Date:	**8/30/2011**	SeqNo:	**823937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	750	33						779.5	3.45	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_351.2**

Sample ID:	LCS-23466	Samp Type:	LCS	Test Code:	EPA_351.2	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42601	
Client ID:	LCSW	Batch ID:	23466	TestNo:	E351.2			Analysis Date:	9/2/2011	SeqNo:	825734	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Kjeldahl, Total	8.0	0.20	8.000	0	99.6	80	120				B	

Sample ID:	MB-23466	Samp Type:	MBLK	Test Code:	EPA_351.2	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42601	
Client ID:	PBW	Batch ID:	23466	TestNo:	E351.2			Analysis Date:	9/2/2011	SeqNo:	825735	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Kjeldahl, Total	0.32	0.20										

Sample ID:	1108A20-024EDUP	Samp Type:	DUP	Test Code:	EPA_351.2	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42601	
Client ID:	MW-11-01	Batch ID:	23466	TestNo:	E351.2			Analysis Date:	9/2/2011	SeqNo:	825737	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Kjeldahl, Total	3.6	0.20						3.550	2.57	25	B	

Sample ID:	1108A20-034EDUP	Samp Type:	DUP	Test Code:	EPA_351.2	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42601	
Client ID:	MW-11-11	Batch ID:	23466	TestNo:	E351.2			Analysis Date:	9/2/2011	SeqNo:	825748	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Kjeldahl, Total	3.0	0.20						3.303	8.00	25	B	

Sample ID:	LCS-23467	Samp Type:	LCS	Test Code:	EPA_351.2	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42613	
Client ID:	LCSW	Batch ID:	23467	TestNo:	E351.2			Analysis Date:	9/2/2011	SeqNo:	825937	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Kjeldahl, Total	2.0	0.20	2.000	0	99.3	80	120				B	

Sample ID:	1108671-001EDUP	Samp Type:	DUP	Test Code:	EPA_351.2	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42613	
Client ID:	ZZZZZZ	Batch ID:	23467	TestNo:	E351.2			Analysis Date:	9/2/2011	SeqNo:	825940	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Kjeldahl, Total	0.78	0.20						0.7391	5.08	25	B	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_351.2**

Sample ID:	**1108A20-044EDUP**	Samp Type:	**DUP**	Test Code:	**EPA_351.2**	Units:	**mg/L**	Prep Date:	**9/1/2011**	RunNo:	**42613**		
Client ID:	**MW-11-21**	Batch ID:	**23467**	TestNo:	**E351.2**			Analysis Date:	**9/2/2011**	SeqNo:	**825957**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	13	0.40						12.61	0.609	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_351.2-S**

Sample ID:	LCS-23406	Samp Type:	LCS	Test Code:	EPA_351.2-S	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42585
Client ID:	LCSS	Batch ID:	23406	TestNo:	E351.2			Analysis Date:	9/1/2011	SeqNo:	825242

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	200	20	200.0	0	99.6	80	120				

Sample ID:	MB-23406	Samp Type:	MBLK	Test Code:	EPA_351.2-S	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42585
Client ID:	PBS	Batch ID:	23406	TestNo:	E351.2			Analysis Date:	9/1/2011	SeqNo:	825243

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	20									U

Sample ID:	1108A20-002DDUP	Samp Type:	DUP	Test Code:	EPA_351.2-S	Units:	mg/Kg-dry	Prep Date:	8/30/2011	RunNo:	42585
Client ID:	MW-11-02	Batch ID:	23406	TestNo:	E351.2			Analysis Date:	9/1/2011	SeqNo:	825248

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	3,200	370						3,086	4.42	25	

Sample ID:	1108A20-013DDUP	Samp Type:	DUP	Test Code:	EPA_351.2-S	Units:	mg/Kg-dry	Prep Date:	8/30/2011	RunNo:	42585
Client ID:	MW-11-13	Batch ID:	23406	TestNo:	E351.2			Analysis Date:	9/1/2011	SeqNo:	825257

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	3,200	330						2,989	7.34	25	

Sample ID:	LCS-23407	Samp Type:	LCS	Test Code:	EPA_351.2-S	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42586
Client ID:	LCSS	Batch ID:	23407	TestNo:	E351.2			Analysis Date:	9/1/2011	SeqNo:	825271

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	200	20	200.0	0	99.2	80	120				

Sample ID:	MB-23407	Samp Type:	MBLK	Test Code:	EPA_351.2-S	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42586
Client ID:	PBS	Batch ID:	23407	TestNo:	E351.2			Analysis Date:	9/1/2011	SeqNo:	825272

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	20									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_351.2-S**

Sample ID:	**1108A20-018DDUP**	Samp Type:	**DUP**	Test Code:	**EPA_351.2-S**	Units:	**mg/Kg-dry**	Prep Date:	**8/30/2011**	RunNo:	**42586**	
Client ID:	**MW-11-18**	Batch ID:	**23407**	TestNo:	**E351.2**			Analysis Date:	**9/1/2011**	SeqNo:	**825279**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	2,600	350						2,998	15.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_410.4-S**

Sample ID:	MB	Samp Type:	MBLK	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42634	
Client ID:	PBS	Batch ID:	R42634	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826512	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand		ND	20									U

Sample ID:	LCS	Samp Type:	LCS	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42634	
Client ID:	LCSS	Batch ID:	R42634	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826513	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand		97	20	100.0	0	97.0	80	120				

Sample ID:	MB	Samp Type:	MBLK	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42634	
Client ID:	PBS	Batch ID:	R42634	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826515	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand		ND	20									U

Sample ID:	1108A20-014DMS	Samp Type:	MS	Test Code:	EPA_410.4-S	Units:	mg/Kg-dry	Prep Date:		RunNo:	42634	
Client ID:	MW-11-14	Batch ID:	R42634	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826527	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand		710,000	20,000	511,800	186,300	102	70	130				

Sample ID:	1108A20-014DMSD	Samp Type:	MSD	Test Code:	EPA_410.4-S	Units:	mg/Kg-dry	Prep Date:		RunNo:	42634	
Client ID:	MW-11-14	Batch ID:	R42634	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826528	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand		710,000	20,000	511,800	186,300	103	70	130	706,300	0.722	25	

Sample ID:	MB	Samp Type:	MBLK	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42633	
Client ID:	PBS	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826530	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand		ND	20									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_410.4-S**

Sample ID:	LCS	Samp Type:	LCS	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42633	
Client ID:	LCSS	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826531	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chemical Oxygen Demand	110	20	100.0	0	107	80	120					

Sample ID:	MB	Samp Type:	MBLK	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42633	
Client ID:	PBS	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826533	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chemical Oxygen Demand	ND	20									U	

Sample ID:	MB	Samp Type:	MBLK	Test Code:	EPA_410.4-S	Units:	mg/Kg	Prep Date:		RunNo:	42633	
Client ID:	PBS	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826535	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chemical Oxygen Demand	ND	20									U	

Sample ID:	1108A20-001DMS	Samp Type:	MS	Test Code:	EPA_410.4-S	Units:	mg/Kg-dry	Prep Date:		RunNo:	42633	
Client ID:	MW-11-01	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826550	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chemical Oxygen Demand	480,000	16,000	395,400	69,590	103	70	130					

Sample ID:	1108A20-001DMSD	Samp Type:	MSD	Test Code:	EPA_410.4-S	Units:	mg/Kg-dry	Prep Date:		RunNo:	42633	
Client ID:	MW-11-01	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826551	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chemical Oxygen Demand	470,000	16,000	395,400	69,590	102	70	130	475,300	0.500	25		

Sample ID:	1108A20-011DMS	Samp Type:	MS	Test Code:	EPA_410.4-S	Units:	mg/Kg-dry	Prep Date:		RunNo:	42633	
Client ID:	MW-11-11	Batch ID:	R42633	TestNo:	E410.4			Analysis Date:	9/3/2011	SeqNo:	826553	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chemical Oxygen Demand	640,000	19,000	481,300	143,400	103	70	130					

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: EPA_410.4-S**

Sample ID:	**1108A20-011DMSD**	Samp Type:	**MSD**	Test Code:	**EPA_410.4-S**	Units:	**mg/Kg-dry**	Prep Date:		RunNo:	**42633**
Client ID:	**MW-11-11**	Batch ID:	**R42633**	TestNo:	**E410.4**			Analysis Date:	**9/3/2011**	SeqNo:	**826554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	650,000	19,000	481,300	143,400	105	70	130	641,100	0.897	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: PMOIST**

Sample ID:	1108A20-001BDUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:		RunNo:	45407	
Client ID:	MW-11-01	Batch ID:	R45407	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	893015	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	44	1.0						43.04	1.47	20		

Sample ID:	1108A20-011BDUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:		RunNo:	45407	
Client ID:	MW-11-11	Batch ID:	R45407	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	893028	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	50	1.0						51.46	3.50	20		

Sample ID:	1108A20-014BDUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:		RunNo:	45408	
Client ID:	MW-11-14	Batch ID:	R45408	TestNo:	D2216			Analysis Date:	8/31/2011	SeqNo:	893043	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	62	1.0						61.54	0.840	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_2540G**

Sample ID:	1108A20-001DDUP	Samp Type:	DUP	Test Code:	SM_2540G	Units:	%	Prep Date:		RunNo:	42629
Client ID:	MW-11-01	Batch ID:	R42629	TestNo:	A2540G			Analysis Date:	8/31/2011	SeqNo:	826334

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Volatile Solids	8.3	0.10						9.906	17.8	20	

Sample ID:	1108A20-014DDUP	Samp Type:	DUP	Test Code:	SM_2540G	Units:	%	Prep Date:		RunNo:	42630
Client ID:	MW-11-14	Batch ID:	R42630	TestNo:	A2540G			Analysis Date:	8/31/2011	SeqNo:	826350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Volatile Solids	12	0.10						11.54	2.63	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_4500-NH3-D**

Sample ID:	MBLK	Samp Type:	MBLK	Test Code:	SM_4500-NH3-D	Units:	mg/L	Prep Date:		RunNo:	42560	
Client ID:	PBW	Batch ID:	R42560	TestNo:	A4500-NH3-D			Analysis Date:	8/31/2011	SeqNo:	824753	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	ND	0.10									U	

Sample ID:	LCS	Samp Type:	LCS	Test Code:	SM_4500-NH3-D	Units:	mg/L	Prep Date:		RunNo:	42560	
Client ID:	LCSW	Batch ID:	R42560	TestNo:	A4500-NH3-D			Analysis Date:	8/31/2011	SeqNo:	824755	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	4.9	0.10	5.000	0	97.4	80	120					

Sample ID:	1108A20-024EMS	Samp Type:	MS	Test Code:	SM_4500-NH3-D	Units:	mg/L	Prep Date:		RunNo:	42560	
Client ID:	MW-11-01	Batch ID:	R42560	TestNo:	A4500-NH3-D			Analysis Date:	8/31/2011	SeqNo:	824758	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	7.2	0.10	5.000	2.230	99.6	75	125					

Sample ID:	1108A20-024EMSD	Samp Type:	MSD	Test Code:	SM_4500-NH3-D	Units:	mg/L	Prep Date:		RunNo:	42560	
Client ID:	MW-11-01	Batch ID:	R42560	TestNo:	A4500-NH3-D			Analysis Date:	8/31/2011	SeqNo:	824759	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	7.0	0.10	5.000	2.230	96.0	75	125	7.210	2.53	25		

Sample ID:	LCS	Samp Type:	LCS	Test Code:	SM_4500-NH3-D	Units:	mg/L	Prep Date:		RunNo:	42691	
Client ID:	LCSW	Batch ID:	R42691	TestNo:	A4500-NH3-D			Analysis Date:	9/7/2011	SeqNo:	828087	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	5.2	0.10	5.000	0	103	80	120					

Sample ID:	1108A20-045EMS	Samp Type:	MS	Test Code:	SM_4500-NH3-D	Units:	mg/L	Prep Date:		RunNo:	42691	
Client ID:	MW-11-22	Batch ID:	R42691	TestNo:	A4500-NH3-D			Analysis Date:	9/7/2011	SeqNo:	828093	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Nitrogen, Ammonia	16	0.10	5.000	10.50	110	75	125					

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_4500-NH3-D**

Sample ID:	**1108A20-045EMSD**	Samp Type:	**MSD**	Test Code:	**SM_4500-NH3-D**	Units:	**mg/L**	Prep Date:		RunNo:	**42691**
Client ID:	**MW-11-22**	Batch ID:	**R42691**	TestNo:	**A4500-NH3-D**			Analysis Date:	**9/7/2011**	SeqNo:	**828094**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	16	0.10	5.000	10.50	106	75	125	16.00	1.26	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_4500-P-F**

Sample ID:	MB-23447	Samp Type:	MBLK	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	8/31/2011	RunNo:	42573	
Client ID:	PBW	Batch ID:	23447	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825063	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.0094	0.010									J	

Sample ID:	LCS-23447	Samp Type:	LCS	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	8/31/2011	RunNo:	42573	
Client ID:	LCSW	Batch ID:	23447	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825064	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.38	0.010	0.4000	0	95.5	80	120					

Sample ID:	1108A20-028EMS	Samp Type:	MS	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	8/31/2011	RunNo:	42573	
Client ID:	MW-11-05	Batch ID:	23447	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825066	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.49	0.010	0.4000	0.1200	93.6	75	125					

Sample ID:	1108A20-028EMSD	Samp Type:	MSD	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	8/31/2011	RunNo:	42573	
Client ID:	MW-11-05	Batch ID:	23447	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825067	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.50	0.010	0.4000	0.1200	94.5	75	125	0.4944	0.774	20		

Sample ID:	MB-23460	Samp Type:	MBLK	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42574	
Client ID:	PBW	Batch ID:	23460	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825582	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.0088	0.010									J	

Sample ID:	LCS-23460	Samp Type:	LCS	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42574	
Client ID:	LCSW	Batch ID:	23460	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825583	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.38	0.010	0.4000	0	94.7	80	120					

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_4500-P-F**

Sample ID:	1108998-002EMS	Samp Type:	MS	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42574
Client ID:	ZZZZZZ	Batch ID:	23460	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825585

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phosphorus, Total (As P)	0.39	0.010	0.4000	0.05666	84.0	75	125				

Sample ID:	1108998-002EMSD	Samp Type:	MSD	Test Code:	SM_4500-P-F	Units:	mg/L	Prep Date:	9/1/2011	RunNo:	42574
Client ID:	ZZZZZZ	Batch ID:	23460	TestNo:	A4500-P-F			Analysis Date:	9/1/2011	SeqNo:	825594

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phosphorus, Total (As P)	0.39	0.010	0.4000	0.05666	83.4	75	125	0.3928	0.646	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_4500-P-FS**

Sample ID:	MB-23421	Samp Type:	MBLK	Test Code:	SM_4500-P-FS	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42559	
Client ID:	PBS	Batch ID:	23421	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824819	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.41	1.9									J	

Sample ID:	LCS-23421	Samp Type:	LCS	Test Code:	SM_4500-P-FS	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42559	
Client ID:	LCSS	Batch ID:	23421	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824820	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	17	1.9	18.87	0	92.6	80	120					

Sample ID:	1108A20-023DMS	Samp Type:	MS	Test Code:	SM_4500-P-FS	Units:	mg/Kg-dry	Prep Date:	8/30/2011	RunNo:	42559	
Client ID:	MW-11-23	Batch ID:	23421	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824822	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	1,700	230	465.1	1,168	119	75	125					

Sample ID:	1108A20-023DMSD	Samp Type:	MSD	Test Code:	SM_4500-P-FS	Units:	mg/Kg-dry	Prep Date:	8/30/2011	RunNo:	42559	
Client ID:	MW-11-23	Batch ID:	23421	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824823	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	1,500	230	456.1	1,168	75.4	75	125	1,719	12.8	25		

Sample ID:	MB-23418	Samp Type:	MBLK	Test Code:	SM_4500-P-FS	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42559	
Client ID:	PBS	Batch ID:	23418	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824830	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	0.45	2.0									J	

Sample ID:	LCS-23418	Samp Type:	LCS	Test Code:	SM_4500-P-FS	Units:	mg/Kg	Prep Date:	8/30/2011	RunNo:	42559	
Client ID:	LCSS	Batch ID:	23418	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824831	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Phosphorus, Total (As P)	19	1.9	18.87	0	98.7	80	120					

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SM_4500-P-FS**

Sample ID:	1108A20-007DMS	Samp Type:	MS	Test Code:	SM_4500-P-FS	Units:	mg/Kg-dry	Prep Date:	8/30/2011	RunNo:	42559
Client ID:	MW-11-07	Batch ID:	23418	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824833

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phosphorus, Total (As P)	1,400	210	425.2	989.4	93.3	75	125				

Sample ID:	1108A20-007DMSD	Samp Type:	MSD	Test Code:	SM_4500-P-FS	Units:	mg/Kg-dry	Prep Date:	8/30/2011	RunNo:	42559
Client ID:	MW-11-07	Batch ID:	23418	TestNo:	A4500-P-F			Analysis Date:	8/31/2011	SeqNo:	824834

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phosphorus, Total (As P)	1,400	230	450.7	989.4	81.5	75	125	1,386	2.16	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020A**

Sample ID:	**1108A20-024FMS**	Samp Type:	**MS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**468985**
Client ID:	**MW-11-01**	Batch ID:	**23461**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**826607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	970	6.0	1,000	2.146	97.1	80	120				
Barium	1,200	100	1,000	188.4	97.8	80	120				
Cadmium	960	4.0	1,000	0.1880	96.2	80	120				
Chromium	1,000	40	1,000	1.666	102	80	120				
Copper	1,000	20	1,000	1.714	102	80	120				
Iron	13,000	800	10,000	443.5	129	80	120				S
Lead	1,000	4.0	1,000	1.206	103	80	120				
Manganese	1,300	20	1,000	266.5	101	80	120				
Nickel	1,000	40	1,000	2.048	101	80	120				
Selenium	960	20	1,000	0.9900	96.0	80	120				
Zinc	1,000	200	1,000	63.56	98.3	80	120				

Sample ID:	**LCS-23461**	Samp Type:	**LCS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**468985**
Client ID:	**LCSW**	Batch ID:	**23461**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**826609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	1,100	6.0	1,000	0	106	80	120				
Barium	1,000	100	1,000	0	104	80	120				
Cadmium	1,000	4.0	1,000	0	100	80	120				
Chromium	1,100	40	1,000	0	111	80	120				
Copper	1,200	20	1,000	0	116	80	120				
Iron	12,000	800	10,000	0	116	80	120				
Lead	1,100	4.0	1,000	0	109	80	120				
Manganese	1,100	20	1,000	0	110	80	120				
Nickel	1,100	40	1,000	0	114	80	120				
Selenium	1,100	20	1,000	0	108	80	120				
Zinc	1,000	200	1,000	0	104	80	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020A**

Sample ID:	**MB-23461**	Samp Type:	**MBLK**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**468985**
Client ID:	**PBW**	Batch ID:	**23461**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**826610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	ND	0.30									U
Barium	0.067	5.0									J
Cadmium	ND	0.20									U
Chromium	ND	2.0									U
Copper	ND	1.0									U
Iron	ND	40									U
Lead	ND	0.20									U
Manganese	ND	1.0									U
Nickel	ND	2.0									U
Selenium	ND	1.0									U
Zinc	ND	10									U

Sample ID:	**1108A20-024FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**468985**
Client ID:	**MW-11-01**	Batch ID:	**23461**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**826612**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	980	6.0	1,000	2.146	97.5	80	120	972.8	0.443	20	
Barium	1,200	100	1,000	188.4	96.8	80	120	1,167	0.857	20	
Cadmium	930	4.0	1,000	0.1880	93.1	80	120	961.7	3.26	20	
Chromium	1,000	40	1,000	1.666	101	80	120	1,018	0.767	20	
Copper	1,000	20	1,000	1.714	102	80	120	1,023	0.480	20	
Iron	11,000	800	10,000	443.5	106	80	120	13,310	18.5	20	
Lead	1,000	4.0	1,000	1.206	101	80	120	1,028	1.25	20	
Manganese	1,300	20	1,000	266.5	99.4	80	120	1,277	1.31	20	
Nickel	1,000	40	1,000	2.048	100	80	120	1,012	0.579	20	
Selenium	970	20	1,000	0.9900	96.8	80	120	961.2	0.841	20	
Zinc	1,000	200	1,000	63.56	97.6	80	120	1,046	0.650	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020A**

Sample ID:	1108A20-037FMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	468985
Client ID:	MW-11-14	Batch ID:	23463	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	826679

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	990	6.0	1,000	0.9860	99.1	80	120				
Barium	1,300	100	1,000	302.9	100	80	120				
Cadmium	960	4.0	1,000	0.1960	96.0	80	120				
Chromium	1,000	40	1,000	0.9040	101	80	120				
Copper	1,000	20	1,000	2.646	99.6	80	120				
Iron	11,000	800	10,000	96.37	105	80	120				
Lead	1,000	4.0	1,000	0.1920	103	80	120				
Manganese	1,400	20	1,000	338.8	108	80	120				
Nickel	990	40	1,000	1.898	99.3	80	120				
Selenium	970	20	1,000	1.012	97.3	80	120				
Zinc	1,100	200	1,000	83.57	100	80	120				

Sample ID:	1108A20-037FMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	468985
Client ID:	MW-11-14	Batch ID:	23463	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	826680

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	1,000	6.0	1,000	0.9860	100	80	120	991.8	1.21	20	
Barium	1,300	100	1,000	302.9	102	80	120	1,307	1.11	20	
Cadmium	970	4.0	1,000	0.1960	96.9	80	120	959.9	0.972	20	
Chromium	1,000	40	1,000	0.9040	102	80	120	1,006	1.30	20	
Copper	1,000	20	1,000	2.646	102	80	120	998.6	1.97	20	
Iron	11,000	800	10,000	96.37	106	80	120	10,620	1.12	20	
Lead	1,000	4.0	1,000	0.1920	105	80	120	1,028	2.09	20	
Manganese	1,400	20	1,000	338.8	109	80	120	1,415	1.09	20	
Nickel	1,000	40	1,000	1.898	101	80	120	994.8	1.70	20	
Selenium	1,000	20	1,000	1.012	102	80	120	973.9	4.31	20	
Zinc	1,100	200	1,000	83.57	101	80	120	1,088	0.911	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020A**

Sample ID:	**LCS-23463**	Samp Type:	**LCS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**468985**
Client ID:	**LCSW**	Batch ID:	**23463**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**826685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	980	6.0	1,000	0	98.0	80	120				
Barium	990	100	1,000	0	98.8	80	120				
Cadmium	950	4.0	1,000	0	94.9	80	120				
Chromium	1,000	40	1,000	0	101	80	120				
Copper	1,000	20	1,000	0	102	80	120				
Iron	10,000	800	10,000	0	104	80	120				
Lead	1,000	4.0	1,000	0	102	80	120				
Manganese	1,000	20	1,000	0	101	80	120				
Nickel	1,000	40	1,000	0	99.9	80	120				
Selenium	990	20	1,000	0	98.7	80	120				
Zinc	990	200	1,000	0	98.9	80	120				

Sample ID:	**MB-23463**	Samp Type:	**MBLK**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**468985**
Client ID:	**PBW**	Batch ID:	**23463**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**826686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	ND	0.30									U
Barium	0.10	5.0									J
Cadmium	ND	0.20									U
Chromium	0.067	2.0									J
Copper	ND	1.0									U
Iron	ND	40									U
Lead	ND	0.20									U
Manganese	ND	1.0									U
Nickel	ND	2.0									U
Selenium	ND	1.0									U
Zinc	ND	10									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020A-SA**

Sample ID:	MB-23462	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	42657	
Client ID:	PBW	Batch ID:	23462	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	827165	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Silver	ND	0.30									U	

Sample ID:	LCS-23462	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	42657	
Client ID:	LCSW	Batch ID:	23462	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	827167	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Silver	880	6.0	1,000	0	87.6	80	120					

Sample ID:	1108A20-024FMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	42657	
Client ID:	MW-11-01	Batch ID:	23462	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	827168	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Silver	1,200	6.0	1,000	0.1850	118	80	120					

Sample ID:	1108A20-024FMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	42657	
Client ID:	MW-11-01	Batch ID:	23462	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	827169	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Silver	1,100	6.0	1,000	0.1850	105	80	120	1,183	11.9	20		

Sample ID:	MB-23464	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	42657	
Client ID:	PBW	Batch ID:	23464	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	827187	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Silver	ND	0.30									U	

Sample ID:	LCS-23464	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	9/1/2011	RunNo:	42657	
Client ID:	LCSW	Batch ID:	23464	TestNo:	SW6020A	SW3020A		Analysis Date:	9/6/2011	SeqNo:	827188	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Silver	1,100	6.0	1,000	0	115	80	120					

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020A-SA**

Sample ID:	**1108A20-047BMS**	Samp Type:	**MS**	Test Code:	**SW_6020A-SA**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**42657**
Client ID:	**MW-11-01 (background)**	Batch ID:	**23464**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**827189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver	1,100	6.0	1,000	0	113	80	120				

Sample ID:	**1108A20-047BMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A-SA**	Units:	**µg/L**	Prep Date:	**9/1/2011**	RunNo:	**42657**
Client ID:	**MW-11-01 (background)**	Batch ID:	**23464**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**9/6/2011**	SeqNo:	**827190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver	1,200	6.0	1,000	0	119	80	120	1,125	5.64	20	

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S**

Sample ID:	1108A20-001DMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	MW-11-01	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826831

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	61,000	370	61,820	4,281	91.1	80	120				
Barium	130,000	6,200	61,820	73,390	91.9	80	120				
Cadmium	65,000	250	61,820	2,107	102	80	120				
Chromium	100,000	2,500	61,820	46,040	90.2	80	120				
Copper	90,000	1,200	61,820	38,800	83.4	80	120				
Lead	130,000	250	61,820	74,630	87.8	80	120				
Nickel	74,000	2,500	61,820	14,420	95.7	80	120				
Selenium	55,000	1,200	61,820	743.0	88.2	80	120				
Zinc	210,000	12,000	61,820	160,800	76.6	80	120				S

Sample ID:	1108A20-001DMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	MW-11-01	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826832

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	59,000	350	58,920	4,281	92.4	80	120	60,580	3.09	20	
Barium	130,000	5,900	58,920	73,390	102	80	120	130,200	2.27	20	
Cadmium	59,000	240	58,920	2,107	97.1	80	120	65,230	9.48	20	
Chromium	96,000	2,400	58,920	46,040	85.5	80	120	101,800	5.44	20	
Copper	86,000	1,200	58,920	38,800	80.2	80	120	90,370	4.87	20	
Lead	120,000	240	58,920	74,630	70.4	80	120	128,900	10.5	20	S
Nickel	67,000	2,400	58,920	14,420	88.4	80	120	73,570	10.1	20	
Selenium	55,000	1,200	58,920	743.0	92.4	80	120	55,270	0.130	20	
Zinc	200,000	12,000	58,920	160,800	59.6	80	120	208,200	6.05	20	S

Sample ID:	LCS-23476	Samp Type:	LCS	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	LCSS	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826833

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	47,000	300	50,000	0	94.7	80	120				
Barium	47,000	5,000	50,000	0	94.9	80	120				
Cadmium	47,000	200	50,000	0	94.8	80	120				

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S**

Sample ID:	LCS-23476	Samp Type:	LCS	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	LCSS	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826833

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	50,000	2,000	50,000	0	99.1	80	120				
Copper	51,000	1,000	50,000	0	101	80	120				
Lead	50,000	200	50,000	0	101	80	120				
Nickel	50,000	2,000	50,000	0	100	80	120				
Selenium	46,000	1,000	50,000	0	92.7	80	120				
Zinc	49,000	10,000	50,000	0	98.0	80	120				

Sample ID:	MB-23476	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	PBS	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826834

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	ND	15									U
Barium	5.1	250									J
Cadmium	ND	10									U
Chromium	ND	100									U
Copper	ND	50									U
Lead	ND	10									U
Nickel	ND	100									U
Selenium	ND	50									U
Zinc	47	500									J

Sample ID:	LCS-23478	Samp Type:	LCS	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	LCSS	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826903

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	48,000	300	50,000	0	96.9	80	120				
Barium	49,000	5,000	50,000	0	98.9	80	120				
Cadmium	48,000	200	50,000	0	96.5	80	120				
Chromium	50,000	2,000	50,000	0	99.9	80	120				
Copper	49,000	1,000	50,000	0	97.8	80	120				
Lead	47,000	200	50,000	0	94.4	80	120				

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S**

Sample ID:	LCS-23478	Samp Type:	LCS	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	LCSS	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826903

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	49,000	2,000	50,000	0	98.2	80	120				
Selenium	50,000	1,000	50,000	0	99.1	80	120				
Zinc	48,000	10,000	50,000	0	96.3	80	120				

Sample ID:	MB-23478	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	PBS	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826904

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	ND	15									U
Barium	ND	250									U
Cadmium	ND	10									U
Chromium	11	100									J
Copper	ND	50									U
Lead	5.5	10									J
Nickel	ND	100									U
Selenium	ND	50									U
Zinc	ND	500									U

Sample ID:	1108A20-011DMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	MW-11-11	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826905

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	70,000	390	65,190	7,537	96.1	80	120				
Barium	180,000	6,500	65,190	116,900	91.4	80	120				
Cadmium	67,000	260	65,190	3,775	97.4	80	120				
Chromium	140,000	2,600	65,190	95,110	74.8	80	120				S
Copper	130,000	1,300	65,190	92,140	65.1	80	120				S
Lead	210,000	260	65,190	197,000	25.7	80	120				S
Nickel	80,000	2,600	65,190	29,310	78.3	80	120				S
Selenium	63,000	1,300	65,190	1,291	94.8	80	120				
Zinc	490,000	13,000	65,190	462,900	35.2	80	120				S

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S**

Sample ID:	1108A20-011DMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	383715
Client ID:	MW-11-11	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	826906

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	80,000	410	69,130	7,537	105	80	120	70,200	13.3	20	
Barium	200,000	6,900	69,130	116,900	115	80	120	176,400	10.7	20	
Cadmium	77,000	280	69,130	3,775	106	80	120	67,270	13.8	20	
Chromium	160,000	2,800	69,130	95,110	98.3	80	120	143,900	12.5	20	
Copper	150,000	1,400	69,130	92,140	83.6	80	120	134,600	10.8	20	
Lead	240,000	280	69,130	197,000	60.6	80	120	213,700	11.1	20	S
Nickel	92,000	2,800	69,130	29,310	90.7	80	120	80,380	13.5	20	
Selenium	73,000	1,400	69,130	1,291	103	80	120	63,120	14.2	20	
Zinc	540,000	14,000	69,130	462,900	105	80	120	485,900	9.70	20	

Sample ID:	1108A20-001DMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	MW-11-01	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827029

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	13,000,000	990,000	618,200	11,650,000	257	80	120				S
Manganese	570,000	25,000	61,820	458,500	183	80	120				S

Sample ID:	1108A20-001DMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	MW-11-01	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827030

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	14,000,000	940,000	589,200	11,650,000	365	80	120	13,240,000	4.17	20	S
Manganese	580,000	24,000	58,920	458,500	201	80	120	571,700	0.912	20	S

Sample ID:	LCS-23476	Samp Type:	LCS	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	LCSS	Batch ID:	23476	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827032

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	570,000	40,000	500,000	0	113	80	120				
Manganese	46,000	1,000	50,000	0	91.7	80	120				

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S**

Sample ID:	MB-23478	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	PBS	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827047

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	ND	2,000									U
Manganese	ND	50									U

Sample ID:	LCS-23478	Samp Type:	LCS	Test Code:	SW_6020S	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	LCSS	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827077

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	570,000	40,000	500,000	0	113	80	120				
Manganese	46,000	1,000	50,000	0	92.8	80	120				

Sample ID:	1108A20-011DMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	MW-11-11	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827079

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	21,000,000	1,000,000	651,900	20,150,000	72.9	80	120				S
Manganese	530,000	26,000	65,190	495,200	50.1	80	120				S

Sample ID:	1108A20-011DMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	85270
Client ID:	MW-11-11	Batch ID:	23478	TestNo:	SW6020A	SW3050B		Analysis Date:	9/6/2011	SeqNo:	827080

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	24,000,000	1,100,000	691,300	20,150,000	504	80	120	20,630,000	13.6	20	S
Manganese	600,000	28,000	69,130	495,200	151	80	120	527,900	12.7	20	S

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S-SA**

Sample ID:	MB-23477	Samp Type:	MBLK	Test Code:	SW_6020S-SA	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	42624	
Client ID:	PBS	Batch ID:	23477	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826244	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver		ND	15									U

Sample ID:	LCS-23477	Samp Type:	LCS	Test Code:	SW_6020S-SA	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	42624	
Client ID:	LCSS	Batch ID:	23477	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826245	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver		48,000	300	50,000	0	95.6	80	120				

Sample ID:	1108A20-001DMS	Samp Type:	MS	Test Code:	SW_6020S-SA	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	42624	
Client ID:	MW-11-01	Batch ID:	23477	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826246	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver		51,000	320	53,530	491.2	93.5	80	120				

Sample ID:	1108A20-001DMSD	Samp Type:	MSD	Test Code:	SW_6020S-SA	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	42624	
Client ID:	MW-11-01	Batch ID:	23477	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826247	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver		53,000	320	52,570	491.2	99.2	80	120	50,550	4.01	20	

Sample ID:	MB-23479	Samp Type:	MBLK	Test Code:	SW_6020S-SA	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	42624	
Client ID:	PBS	Batch ID:	23479	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826263	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver		ND	15									U

Sample ID:	LCS-23479	Samp Type:	LCS	Test Code:	SW_6020S-SA	Units:	µg/Kg	Prep Date:	9/2/2011	RunNo:	42624	
Client ID:	LCSS	Batch ID:	23479	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826264	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver		49,000	300	50,000	0	98.4	80	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_6020S-SA**

Sample ID:	1108A20-011DMS	Samp Type:	MS	Test Code:	SW_6020S-SA	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	42624
Client ID:	MW-11-11	Batch ID:	23479	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826265

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver	82,000	520	85,840	690.0	95.0	80	120				

Sample ID:	1108A20-011DMSD	Samp Type:	MSD	Test Code:	SW_6020S-SA	Units:	µg/Kg-dry	Prep Date:	9/2/2011	RunNo:	42624
Client ID:	MW-11-11	Batch ID:	23479	TestNo:	SW6020A	SW3050B		Analysis Date:	9/2/2011	SeqNo:	826273

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Silver	65,000	370	62,430	690.0	104	80	120	82,210	22.7	20	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_7470A**

Sample ID:	MB-23507	Samp Type:	MBLK	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666	
Client ID:	PBW	Batch ID:	23507	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827786	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	ND	0.20									U	

Sample ID:	LCS-23507	Samp Type:	LCS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666	
Client ID:	LCSW	Batch ID:	23507	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827787	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.93	0.20	1.000	0	92.6	80	120					

Sample ID:	1108A20-024FMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666	
Client ID:	MW-11-01	Batch ID:	23507	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827789	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.92	0.20	1.000	0	92.5	80	120					

Sample ID:	1108A20-024FMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666	
Client ID:	MW-11-01	Batch ID:	23507	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827790	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.94	0.20	1.000	0	94.3	80	120	0.9250	1.93	20		

Sample ID:	1108A20-034FMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666	
Client ID:	MW-11-11	Batch ID:	23507	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827803	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	5.1	0.20	1.000	4.156	90.2	80	120					

Sample ID:	1108A20-034FMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666	
Client ID:	MW-11-11	Batch ID:	23507	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827804	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	5.0	0.20	1.000	4.156	81.7	80	120	5.058	1.69	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_7470A**

Sample ID:	MB-23508	Samp Type:	MBLK	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666
Client ID:	PBW	Batch ID:	23508	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827812

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	ND	0.20									U

Sample ID:	LCS-23508	Samp Type:	LCS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666
Client ID:	LCSW	Batch ID:	23508	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827813

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.90	0.20	1.000	0	90.0	80	120				

Sample ID:	1108A20-039FMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666
Client ID:	MW-11-16	Batch ID:	23508	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827815

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.98	0.20	1.000	0	98.5	80	120				

Sample ID:	1108A20-039FMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/7/2011	RunNo:	42666
Client ID:	MW-11-16	Batch ID:	23508	TestNo:	SW7470A	SW7470		Analysis Date:	9/7/2011	SeqNo:	827816

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.94	0.20	1.000	0	93.5	80	120	0.9850	5.21	20	

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_7471S**

Sample ID:	MB-23575	Samp Type:	MBLK	Test Code:	SW_7471S	Units:	µg/Kg	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	PBS	Batch ID:	23575	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831237	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	ND	36									U	

Sample ID:	LCS-23575	Samp Type:	LCS	Test Code:	SW_7471S	Units:	µg/Kg	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	LCSS	Batch ID:	23575	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831238	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	58	36	60.00	0	96.3	80	120					

Sample ID:	1108A20-001DMS	Samp Type:	MS	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	MW-11-01	Batch ID:	23575	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831240	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	230	52	86.34	183.2	48.7	80	120				S	

Sample ID:	1108A20-001DMSD	Samp Type:	MSD	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	MW-11-01	Batch ID:	23575	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831241	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	270	49	81.03	183.2	106	80	120	225.2	17.6	20		

Sample ID:	1108A20-011DMS	Samp Type:	MS	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	MW-11-11	Batch ID:	23575	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831254	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	310	61	101.3	275.0	39.4	80	120				S	

Sample ID:	1108A20-011DMSD	Samp Type:	MSD	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	MW-11-11	Batch ID:	23575	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831255	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	450	61	101.3	275.0	171	80	120	314.9	34.9	20	SR	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_7471S**

Sample ID:	MB-23577	Samp Type:	MBLK	Test Code:	SW_7471S	Units:	µg/Kg	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	PBS	Batch ID:	23577	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831262	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.96	36									J	

Sample ID:	LCS-23577	Samp Type:	LCS	Test Code:	SW_7471S	Units:	µg/Kg	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	LCSS	Batch ID:	23577	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831263	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	55	36	60.00	0	92.1	80	120					

Sample ID:	1108A20-016DMS	Samp Type:	MS	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	MW-11-16	Batch ID:	23577	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831265	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	270	52	86.14	110.3	182	80	120				S	

Sample ID:	1108A20-016DMSD	Samp Type:	MSD	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	MW-11-16	Batch ID:	23577	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831266	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	390	53	87.80	110.3	324	80	120	266.7	38.7	20	SR	

Sample ID:	1109357-001BMS	Samp Type:	MS	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	ZZZZZZ	Batch ID:	23577	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831279	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	85	39	64.91	32.32	80.9	80	120					

Sample ID:	1109357-001BMSD	Samp Type:	MSD	Test Code:	SW_7471S	Units:	µg/Kg-dry	Prep Date:	9/13/2011	RunNo:	42787	
Client ID:	ZZZZZZ	Batch ID:	23577	TestNo:	SW7471A			Analysis Date:	9/13/2011	SeqNo:	831280	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	80	37	61.37	32.32	77.6	80	120	84.84	5.91	20	S	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081A**

Sample ID:	**lcs-23493**	Samp Type:	**LCS**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**9/6/2011**	RunNo:	**1032048**
Client ID:	**LCSW**	Batch ID:	**23493**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/21/2011**	SeqNo:	**836630**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	0.096	0.010	0.1000	0	95.5	25	150				
4,4'-DDE	0.10	0.010	0.1000	0	105	35	140				
4,4'-DDT	0.11	0.010	0.1000	0	108	45	140				
Aldrin	0.11	0.010	0.1000	0	106	25	140				
alpha-BHC	0.10	0.010	0.1000	0	101	60	130				
alpha-Chlordane	0.10	0.010	0.1000	0	102	65	125				
beta-BHC	0.099	0.010	0.1000	0	98.7	65	125				
Chlordane (Technical)	ND	0.20	0.1000	0	0	60	130				SU
delta-BHC	0.11	0.010	0.1000	0	111	45	135				
Dieldrin	0.10	0.010	0.1000	0	102	60	130				
Endosulfan I	0.10	0.010	0.1000	0	103	50	110				
Endosulfan II	0.10	0.010	0.1000	0	105	30	130				
Endosulfan sulfate	0.11	0.010	0.1000	0	106	55	135				
Endrin	0.11	0.010	0.1000	0	107	55	135				
Endrin aldehyde	0.097	0.010	0.1000	0	97.3	55	135				
Endrin ketone	0.10	0.010	0.1000	0	105	75	125				
gamma-BHC	0.11	0.010	0.1000	0	107	25	135				
gamma-Chlordane	0.10	0.010	0.1000	0	103	60	125				
Heptachlor	0.10	0.010	0.1000	0	99.6	40	130				
Heptachlor epoxide	0.10	0.010	0.1000	0	102	60	130				
Methoxychlor	0.098	0.010	0.1000	0	98.2	55	150				
Toxaphene	ND	0.20	0.1000	0	0	60	130				SU
Surr: Decachlorobiphenyl	0.098		0.1000		98.4	30	135				
Surr: Tetrachloro-m-xylene	0.10		0.1000		99.6	25	140				

Sample ID:	**lcsd-23493**	Samp Type:	**LCSD**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**9/6/2011**	RunNo:	**1032048**
Client ID:	**LCSS02**	Batch ID:	**23493**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/21/2011**	SeqNo:	**836631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	0.098	0.010	0.1000	0	98.3	25	150	0.09554	2.83	25	
4,4'-DDE	0.11	0.010	0.1000	0	107	35	140	0.1046	2.08	25	

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081A**

Sample ID:	lcsd-23493	Samp Type:	LCSD	Test Code:	SW_8081A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	1032048
Client ID:	LCSS02	Batch ID:	23493	TestNo:	SW8081A	SW3510C		Analysis Date:	9/21/2011	SeqNo:	836631

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDT	0.11	0.010	0.1000	0	111	45	140	0.1082	2.27	25	
Aldrin	0.11	0.010	0.1000	0	107	25	140	0.1056	1.38	25	
alpha-BHC	0.10	0.010	0.1000	0	103	60	130	0.1015	1.32	25	
alpha-Chlordane	0.10	0.010	0.1000	0	104	65	125	0.1021	1.74	25	
beta-BHC	0.10	0.010	0.1000	0	100	65	125	0.09870	1.77	25	
Chlordane (Technical)	ND	0.20	0.1000	0	0	60	130	0	0	25	SU
delta-BHC	0.11	0.010	0.1000	0	112	45	135	0.1109	1.41	25	
Dieldrin	0.10	0.010	0.1000	0	104	60	130	0.1019	2.13	25	
Endosulfan I	0.10	0.010	0.1000	0	105	50	110	0.1027	1.79	25	
Endosulfan II	0.11	0.010	0.1000	0	107	30	130	0.1049	1.86	25	
Endosulfan sulfate	0.11	0.010	0.1000	0	108	55	135	0.1064	1.39	25	
Endrin	0.11	0.010	0.1000	0	110	55	135	0.1071	2.51	25	
Endrin aldehyde	0.099	0.010	0.1000	0	98.7	55	135	0.09732	1.45	25	
Endrin ketone	0.11	0.010	0.1000	0	107	75	125	0.1049	1.77	25	
gamma-BHC	0.11	0.010	0.1000	0	108	25	135	0.1067	1.19	25	
gamma-Chlordane	0.10	0.010	0.1000	0	105	60	125	0.1029	1.75	25	
Heptachlor	0.10	0.010	0.1000	0	101	40	130	0.09962	1.59	25	
Heptachlor epoxide	0.10	0.010	0.1000	0	104	60	130	0.1019	1.77	25	
Methoxychlor	0.10	0.010	0.1000	0	100	55	150	0.09816	2.20	25	
Toxaphene	ND	0.20	0.1000	0	0	60	130	0	0	25	SU
Surr: Decachlorobiphenyl	0.10		0.1000		101	30	135		0	25	
Surr: Tetrachloro-m-xylene	0.10		0.1000		101	25	140		0	25	

Sample ID:	mb-23493	Samp Type:	MBLK	Test Code:	SW_8081A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	1032048
Client ID:	PBW	Batch ID:	23493	TestNo:	SW8081A	SW3510C		Analysis Date:	9/21/2011	SeqNo:	836632

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.010									U
4,4'-DDE	ND	0.010									U
4,4'-DDT	ND	0.010									U
Aldrin	ND	0.010									U

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081A**

Sample ID:	**mb-23493**	Samp Type:	**MBLK**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**9/6/2011**	RunNo:	**1032048**
Client ID:	**PBW**	Batch ID:	**23493**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/21/2011**	SeqNo:	**836632**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.010									U
alpha-Chlordane	ND	0.010									U
beta-BHC	ND	0.010									U
Chlordane (Technical)	ND	0.20									U
delta-BHC	ND	0.010									U
Dieldrin	ND	0.010									U
Endosulfan I	ND	0.010									U
Endosulfan II	ND	0.010									U
Endosulfan sulfate	ND	0.010									U
Endrin	ND	0.010									U
Endrin aldehyde	ND	0.010									U
Endrin ketone	ND	0.010									U
gamma-BHC	ND	0.010									U
gamma-Chlordane	ND	0.010									U
Heptachlor	ND	0.010									U
Heptachlor epoxide	ND	0.010									U
Methoxychlor	ND	0.010									U
Toxaphene	ND	0.20									U
Surr: Decachlorobiphenyl	0.10		0.1000		104	30	135				
Surr: Tetrachloro-m-xylene	0.087		0.1000		87.5	25	140				

Sample ID:	**lcs-23433**	Samp Type:	**LCS**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**8/31/2011**	RunNo:	**1036248**
Client ID:	**LCSW**	Batch ID:	**23433**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/12/2011**	SeqNo:	**841244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	0.097	0.010	0.1000	0	97.0	25	150				
4,4'-DDE	0.10	0.010	0.1000	0	102	35	140				
4,4'-DDT	0.098	0.010	0.1000	0	98.1	45	140				
Aldrin	0.10	0.010	0.1000	0	101	25	140				
alpha-BHC	0.097	0.010	0.1000	0	96.9	60	130				
alpha-Chlordane	0.097	0.010	0.1000	0	96.9	65	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081A**

Sample ID:	**lcs-23433**	Samp Type:	**LCS**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**8/31/2011**	RunNo:	**1036248**
Client ID:	**LCSW**	Batch ID:	**23433**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/12/2011**	SeqNo:	**841244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
beta-BHC	0.095	0.010	0.1000	0	94.6	65	125				
Chlordane (Technical)	ND	0.20	0.1000	0	0	60	130				SU
delta-BHC	0.10	0.010	0.1000	0	103	45	135				
Dieldrin	0.10	0.010	0.1000	0	102	60	130				
Endosulfan I	0.097	0.010	0.1000	0	97.3	50	110				
Endosulfan II	0.096	0.010	0.1000	0	96.3	30	130				
Endosulfan sulfate	0.097	0.010	0.1000	0	96.8	55	135				
Endrin	0.097	0.010	0.1000	0	96.9	55	135				
Endrin aldehyde	0.094	0.010	0.1000	0	93.5	55	135				
Endrin ketone	0.099	0.010	0.1000	0	99.3	75	125				
gamma-BHC	0.10	0.010	0.1000	0	101	25	135				
gamma-Chlordane	0.098	0.010	0.1000	0	98.1	60	125				
Heptachlor	0.091	0.010	0.1000	0	91.3	40	130				
Heptachlor epoxide	0.098	0.010	0.1000	0	97.9	60	130				
Methoxychlor	0.093	0.010	0.1000	0	92.9	55	150				
Toxaphene	ND	0.20	0.1000	0	0	60	130				SU
Surr: Decachlorobiphenyl	0.091		0.1000		91.4	30	135				
Surr: Tetrachloro-m-xylene	0.096		0.1000		95.8	25	140				

Sample ID:	**lcsd-23433**	Samp Type:	**LCSD**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**8/31/2011**	RunNo:	**1036248**
Client ID:	**LCSS02**	Batch ID:	**23433**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/12/2011**	SeqNo:	**841245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	0.099	0.010	0.1000	0	99.2	25	150	0.09697	2.31	25	
4,4'-DDE	0.10	0.010	0.1000	0	104	35	140	0.1023	1.85	25	
4,4'-DDT	0.10	0.010	0.1000	0	102	45	140	0.09807	3.58	25	
Aldrin	0.10	0.010	0.1000	0	103	25	140	0.1008	1.97	25	
alpha-BHC	0.099	0.010	0.1000	0	99.1	60	130	0.09688	2.30	25	
alpha-Chlordane	0.098	0.010	0.1000	0	98.4	65	125	0.09687	1.57	25	
beta-BHC	0.097	0.010	0.1000	0	96.7	65	125	0.09460	2.16	25	
Chlordane (Technical)	ND	0.20	0.1000	0	0	60	130	0	0	25	SU

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081A**

Sample ID:	lcsd-23433	Samp Type:	LCSD	Test Code:	SW_8081A	Units:	µg/L	Prep Date:	8/31/2011	RunNo:	1036248
Client ID:	LCSS02	Batch ID:	23433	TestNo:	SW8081A	SW3510C		Analysis Date:	9/12/2011	SeqNo:	841245

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
delta-BHC	0.11	0.010	0.1000	0	106	45	135	0.1027	2.94	25	
Dieldrin	0.10	0.010	0.1000	0	104	60	130	0.1020	1.70	25	
Endosulfan I	0.099	0.010	0.1000	0	98.9	50	110	0.09730	1.60	25	
Endosulfan II	0.097	0.010	0.1000	0	97.3	30	130	0.09630	1.08	25	
Endosulfan sulfate	0.099	0.010	0.1000	0	98.8	55	135	0.09677	2.04	25	
Endrin	0.10	0.010	0.1000	0	100	55	135	0.09689	3.62	25	
Endrin aldehyde	0.095	0.010	0.1000	0	95.2	55	135	0.09355	1.78	25	
Endrin ketone	0.10	0.010	0.1000	0	103	75	125	0.09927	3.23	25	
gamma-BHC	0.10	0.010	0.1000	0	104	25	135	0.1012	2.30	25	
gamma-Chlordane	0.10	0.010	0.1000	0	99.6	60	125	0.09809	1.49	25	
Heptachlor	0.095	0.010	0.1000	0	94.6	40	130	0.09127	3.61	25	
Heptachlor epoxide	0.10	0.010	0.1000	0	99.5	60	130	0.09791	1.62	25	
Methoxychlor	0.097	0.010	0.1000	0	96.9	55	150	0.09286	4.30	25	
Toxaphene	ND	0.20	0.1000	0	0	60	130	0	0	25	SU
Surr: Decachlorobiphenyl	0.092		0.1000		92.4	30	135		0	25	
Surr: Tetrachloro-m-xylene	0.097		0.1000		97.3	25	140		0	25	

Sample ID:	mb-23433	Samp Type:	MBLK	Test Code:	SW_8081A	Units:	µg/L	Prep Date:	8/31/2011	RunNo:	1036248
Client ID:	PBW	Batch ID:	23433	TestNo:	SW8081A	SW3510C		Analysis Date:	9/12/2011	SeqNo:	841246

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.010									U
4,4'-DDE	ND	0.010									U
4,4'-DDT	ND	0.010									U
Aldrin	ND	0.010									U
alpha-BHC	ND	0.010									U
alpha-Chlordane	ND	0.010									U
beta-BHC	ND	0.010									U
Chlordane (Technical)	ND	0.20									U
delta-BHC	ND	0.010									U
Dieldrin	ND	0.010									U

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081A**

Sample ID:	**mb-23433**	Samp Type:	**MBLK**	Test Code:	**SW_8081A**	Units:	**µg/L**	Prep Date:	**8/31/2011**	RunNo:	**1036248**
Client ID:	**PBW**	Batch ID:	**23433**	TestNo:	**SW8081A**	**SW3510C**		Analysis Date:	**9/12/2011**	SeqNo:	**841246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Endosulfan I	ND	0.010									dU
Endosulfan II	ND	0.010									U
Endosulfan sulfate	ND	0.010									U
Endrin	ND	0.010									U
Endrin aldehyde	ND	0.010									U
Endrin ketone	ND	0.010									U
gamma-BHC	ND	0.010									U
gamma-Chlordane	ND	0.010									U
Heptachlor	ND	0.010									U
Heptachlor epoxide	ND	0.010									U
Methoxychlor	ND	0.010									U
Toxaphene	ND	0.20									U
Surr: Decachlorobiphenyl	0.093		0.1000		93.0	30	135				
Surr: Tetrachloro-m-xylene	0.085		0.1000		85.2	25	140				

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	lcs-23522	Samp Type:	LCS	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	9/7/2011	RunNo:	946044
Client ID:	LCSS	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	837339

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	8.4	1.7	8.275	0	102	30	135				
4,4'-DDE	9.8	0.83	8.275	0	119	70	125				
4,4'-DDT	9.9	0.83	8.275	0	119	45	140				
Aldrin	9.4	0.83	8.275	0	114	45	140				
alpha-BHC	9.2	0.83	8.275	0	111	60	125				
alpha-Chlordane	9.3	0.83	8.275	0	112	65	125				
beta-BHC	8.9	0.83	8.275	0	108	60	125				
delta-BHC	9.6	0.83	8.275	0	116	55	130				
Dieldrin	9.7	0.83	8.275	0	117	65	125				
Endosulfan I	9.4	0.83	8.275	0	114	15	135				
Endosulfan II	8.4	0.83	8.275	0	101	35	140				
Endosulfan sulfate	8.9	0.83	8.275	0	108	60	135				
Endrin	9.8	0.83	8.275	0	119	60	135				
Endrin aldehyde	7.7	0.83	8.275	0	93.2	35	145				
Endrin ketone	9.6	0.83	8.275	0	116	65	130				
gamma-BHC	9.7	0.83	8.275	0	117	60	125				
gamma-Chlordane	9.4	0.83	8.275	0	113	65	125				
Heptachlor	8.4	0.83	8.275	0	101	50	140				
Heptachlor epoxide	9.2	0.83	8.275	0	112	65	130				
Methoxychlor	8.9	0.83	8.275	0	108	55	145				
Surr: Decachlorobiphenyl	8.4		8.275		101	55	130				
Surr: Tetrachloro-m-xylene	8.3		8.275		100	70	125				

Sample ID:	mb-23522	Samp Type:	MBLK	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	9/7/2011	RunNo:	1032048
Client ID:	PBS	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	837340

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	ND	1.7									U
4,4'-DDE	ND	0.83									U
4,4'-DDT	ND	0.83									U
Aldrin	ND	0.83									U

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	mb-23522	Samp Type:	MBLK	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	9/7/2011	RunNo:	1032048
Client ID:	PBS	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	837340

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.83									U
alpha-Chlordane	ND	0.83									U
beta-BHC	ND	0.83									U
Chlordane (Technical)	ND	17									U
delta-BHC	ND	0.83									U
Dieldrin	ND	0.83									U
Endosulfan I	ND	0.83									U
Endosulfan II	ND	0.83									U
Endosulfan sulfate	ND	0.83									U
Endrin	ND	0.83									U
Endrin aldehyde	ND	0.83									U
Endrin ketone	ND	0.83									U
gamma-BHC	ND	0.83									U
gamma-Chlordane	ND	0.83									U
Heptachlor	ND	0.83									U
Heptachlor epoxide	ND	0.83									U
Methoxychlor	ND	0.83									U
Toxaphene	ND	17									U
Surr: Decachlorobiphenyl	8.4		8.289		101	55	130				
Surr: Tetrachloro-m-xylene	7.8		8.289		94.4	70	125				

Sample ID:	1108a20-021ams	Samp Type:	MS	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	9/7/2011	RunNo:	1032048
Client ID:	MW-11-21	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	840350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	16	7.4	17.99	0	89.7	30	135				
4,4'-DDE	31	3.6	17.99	15.26	87.9	70	125				
4,4'-DDT	29	3.6	17.99	13.81	86.6	45	140				
Aldrin	14	3.6	17.99	0	79.5	45	140				
alpha-BHC	16	3.6	17.99	0	87.8	60	125				
alpha-Chlordane	15	3.6	17.99	0	85.6	65	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	1108a20-021ams	Samp Type:	MS	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	9/7/2011	RunNo:	1032048
Client ID:	MW-11-21	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	840350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
beta-BHC	16	3.6	17.99	0	87.4	60	125				
Chlordane (Technical)	ND	72	17.99	0	0	60	130				SU
delta-BHC	17	3.6	17.99	0	92.9	55	130				
Dieldrin	22	3.6	17.99	7.200	82.8	65	125				
Endosulfan I	14	3.6	17.99	0	80.1	15	135				
Endosulfan II	14	3.6	17.99	0	79.0	35	140				
Endosulfan sulfate	20	3.6	17.99	2.871	94.7	60	135				
Endrin	15	3.6	17.99	0	84.4	60	135				
Endrin aldehyde	18	3.6	17.99	0	97.6	35	145				
Endrin ketone	17	3.6	17.99	0	94.1	65	130				
gamma-BHC	15	3.6	17.99	0	85.3	60	125				
gamma-Chlordane	19	3.6	17.99	5.829	74.5	65	125				
Heptachlor	15	3.6	17.99	0	83.8	50	140				
Heptachlor epoxide	28	3.6	17.99	0	155	65	130				S
Methoxychlor	19	3.6	17.99	0	108	55	145				
Toxaphene	ND	72	17.99	0	0	60	130				SU
Surr: Decachlorobiphenyl	15		17.99		81.4	55	130				
Surr: Tetrachloro-m-xylene	13		17.99		71.0	70	125				

Sample ID:	1108a20-021amsd	Samp Type:	MSD	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	9/7/2011	RunNo:	1032048
Client ID:	MW-11-21	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	840351

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	17	7.4	18.07	0	91.7	30	135	16.14	2.61	25	
4,4'-DDE	32	3.6	18.07	15.26	93.0	70	125	31.06	3.19	25	
4,4'-DDT	30	3.6	18.07	13.81	89.7	45	140	29.39	2.15	25	
Aldrin	14	3.6	18.07	0	77.3	45	140	14.30	2.29	25	
alpha-BHC	16	3.6	18.07	0	86.2	60	125	15.79	1.40	25	
alpha-Chlordane	15	3.6	18.07	0	85.8	65	125	15.39	0.715	25	
beta-BHC	15	3.6	18.07	0	84.8	60	125	15.72	2.55	25	
Chlordane (Technical)	ND	73	18.07	0	0	60	130	0	0	25	SU

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	1108a20-021amsd	Samp Type:	MSD	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	9/7/2011	RunNo:	1032048
Client ID:	MW-11-21	Batch ID:	23522	TestNo:	SW8081A	SW3550C		Analysis Date:	9/22/2011	SeqNo:	840351

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
delta-BHC	16	3.6	18.07	0	90.4	55	130	16.70	2.23	25	
Dieldrin	23	3.6	18.07	7.200	84.9	65	125	22.09	1.98	25	
Endosulfan I	14	3.6	18.07	0	80.0	15	135	14.41	0.292	25	
Endosulfan II	14	3.6	18.07	0	77.9	35	140	14.21	0.879	25	
Endosulfan sulfate	20	3.6	18.07	2.871	93.4	60	135	19.91	0.794	25	
Endrin	15	3.6	18.07	0	81.8	60	135	15.19	2.70	25	
Endrin aldehyde	18	3.6	18.07	0	98.7	35	145	17.55	1.65	25	
Endrin ketone	17	3.6	18.07	0	93.4	65	130	16.93	0.274	25	
gamma-BHC	15	3.6	18.07	0	83.5	60	125	15.34	1.66	25	
gamma-Chlordane	20	3.6	18.07	5.829	76.6	65	125	19.24	2.20	25	
Heptachlor	15	3.6	18.07	0	82.9	50	140	15.07	0.670	25	
Heptachlor epoxide	29	3.6	18.07	0	158	65	130	27.92	2.33	25	S
Methoxychlor	20	3.6	18.07	0	110	55	145	19.34	2.55	25	
Toxaphene	ND	73	18.07	0	0	60	130	0	0	25	SU
Surr: Decachlorobiphenyl	15		18.07		84.8	55	130		0	25	
Surr: Tetrachloro-m-xylene	13		18.07		72.2	70	125		0	25	

Sample ID:	lcs-23409	Samp Type:	LCS	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	LCSS	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/14/2011	SeqNo:	841361

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	8.9	1.7	8.281	0	108	30	135				
4,4'-DDE	8.8	0.83	8.281	0	107	70	125				
4,4'-DDT	8.7	0.83	8.281	0	104	45	140				
Aldrin	8.3	0.83	8.281	0	100	45	140				
alpha-BHC	8.1	0.83	8.281	0	98.1	60	125				
alpha-Chlordane	8.3	0.83	8.281	0	99.9	65	125				
beta-BHC	8.1	0.83	8.281	0	97.2	60	125				
Chlordane (Technical)	ND	17	8.281	0	0	60	130				SU
delta-BHC	8.8	0.83	8.281	0	106	55	130				
Dieldrin	8.9	0.83	8.281	0	108	65	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	lcs-23409	Samp Type:	LCS	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	LCSS	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/14/2011	SeqNo:	841361

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Endosulfan I	8.3	0.83	8.281	0	100	15	135				
Endosulfan II	8.4	0.83	8.281	0	101	35	140				
Endosulfan sulfate	8.1	0.83	8.281	0	97.5	60	135				
Endrin	8.2	0.83	8.281	0	99.0	60	135				
Endrin aldehyde	7.7	0.83	8.281	0	92.4	35	145				
Endrin ketone	8.8	0.83	8.281	0	106	65	130				
gamma-BHC	8.6	0.83	8.281	0	104	60	125				
gamma-Chlordane	8.4	0.83	8.281	0	101	65	125				
Heptachlor	8.1	0.83	8.281	0	97.9	50	140				
Heptachlor epoxide	8.4	0.83	8.281	0	101	65	130				
Methoxychlor	8.0	0.83	8.281	0	97.0	55	145				
Toxaphene	ND	17	8.281	0	0	60	130				SU
Surr: Decachlorobiphenyl	7.6		8.281		92.0	55	130				
Surr: Tetrachloro-m-xylene	7.8		8.281		93.9	70	125				

Sample ID:	mb-23409	Samp Type:	MBLK	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	PBS	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/14/2011	SeqNo:	841362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	ND	1.7									U
4,4'-DDE	ND	0.83									U
4,4'-DDT	ND	0.83									U
Aldrin	ND	0.83									U
alpha-BHC	ND	0.83									U
alpha-Chlordane	ND	0.83									U
beta-BHC	ND	0.83									U
Chlordane (Technical)	ND	17									U
delta-BHC	ND	0.83									U
Dieldrin	ND	0.83									U
Endosulfan I	ND	0.83									U
Endosulfan II	ND	0.83									U

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	mb-23409	Samp Type:	MBLK	Test Code:	SW_8081S	Units:	µg/Kg	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	PBS	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/14/2011	SeqNo:	841362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Endosulfan sulfate	ND	0.83									U
Endrin	ND	0.83									U
Endrin aldehyde	ND	0.83									U
Endrin ketone	ND	0.83									U
gamma-BHC	ND	0.83									U
gamma-Chlordane	ND	0.83									U
Heptachlor	ND	0.83									U
Heptachlor epoxide	ND	0.83									U
Methoxychlor	ND	0.83									U
Toxaphene	ND	17									U
Surr: Decachlorobiphenyl	8.4		8.267		101	55	130				
Surr: Tetrachloro-m-xylene	8.1		8.267		98.1	70	125				

Sample ID:	1108A20-004ams	Samp Type:	MS	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	MW-11-04	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/15/2011	SeqNo:	841383

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	20	17	17.09	0	114	30	135				
4,4'-DDE	26	8.5	17.09	1.764	141	70	125				S
4,4'-DDT	29	8.5	17.09	0	167	45	140				S
Aldrin	19	8.5	17.09	0	112	45	140				
alpha-BHC	17	8.5	17.09	0	97.9	60	125				
alpha-Chlordane	17	8.5	17.09	0	102	65	125				
beta-BHC	19	8.5	17.09	0	109	60	125				
Chlordane (Technical)	ND	170	17.09	0	0	60	130				SU
delta-BHC	18	8.5	17.09	0	107	55	130				
Dieldrin	23	8.5	17.09	0	136	65	125				S
Endosulfan I	17	8.5	17.09	0	97.6	15	135				
Endosulfan II	19	8.5	17.09	0	109	35	140				
Endosulfan sulfate	25	8.5	17.09	0	148	60	135				S
Endrin	18	8.5	17.09	0	103	60	135				

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	1108A20-004ams	Samp Type:	MS	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	MW-11-04	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/15/2011	SeqNo:	841383

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Endrin aldehyde	20	8.5	17.09	0	115	35	145				
Endrin ketone	19	8.5	17.09	0	111	65	130				
gamma-BHC	17	8.5	17.09	0	98.4	60	125				
gamma-Chlordane	21	8.5	17.09	0	123	65	125				
Heptachlor	19	8.5	17.09	0	110	50	140				
Heptachlor epoxide	28	8.5	17.09	0	165	65	130				S
Methoxychlor	42	8.5	17.09	0	243	55	145				S
Toxaphene	ND	170	17.09	0	0	60	130				SU
Surr: Decachlorobiphenyl	14		17.09		84.3	55	130				
Surr: Tetrachloro-m-xylene	14		17.09		81.0	70	125				

Sample ID:	1108A20-004amsd	Samp Type:	MSD	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	MW-11-04	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/15/2011	SeqNo:	841384

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4,4'-DDD	22	17	17.07	0	127	30	135	19.52	10.8	25	
4,4'-DDE	28	8.5	17.07	1.764	154	70	125	25.89	7.99	25	S
4,4'-DDT	34	8.5	17.07	0	199	45	140	28.59	17.4	25	S
Aldrin	22	8.5	17.07	0	128	45	140	19.07	13.2	25	
alpha-BHC	18	8.5	17.07	0	107	60	125	16.72	8.89	25	
alpha-Chlordane	20	8.5	17.07	0	115	65	125	17.44	12.0	25	
beta-BHC	21	8.5	17.07	0	120	60	125	18.61	9.78	25	
Chlordane (Technical)	ND	170	17.07	0	0	60	130	0	0	25	SU
delta-BHC	20	8.5	17.07	0	119	55	130	18.35	10.2	25	
Dieldrin	26	8.5	17.07	0	154	65	125	23.29	12.0	25	S
Endosulfan I	19	8.5	17.07	0	109	15	135	16.67	11.0	25	
Endosulfan II	18	8.5	17.07	0	105	35	140	18.69	4.53	25	
Endosulfan sulfate	28	8.5	17.07	0	165	60	135	25.25	10.7	25	S
Endrin	20	8.5	17.07	0	117	60	135	17.62	12.5	25	
Endrin aldehyde	23	8.5	17.07	0	135	35	145	19.62	16.0	25	
Endrin ketone	22	8.5	17.07	0	127	65	130	19.00	13.3	25	

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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8081S**

Sample ID:	1108A20-004amsd	Samp Type:	MSD	Test Code:	SW_8081S	Units:	µg/Kg-dry	Prep Date:	8/30/2011	RunNo:	1036248
Client ID:	MW-11-04	Batch ID:	23409	TestNo:	SW8081A	SW3550C		Analysis Date:	9/15/2011	SeqNo:	841384

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
gamma-BHC	22	8.5	17.07	0	130	60	125	16.80	27.3	25	SR
gamma-Chlordane	24	8.5	17.07	0	138	65	125	20.95	11.9	25	S
Heptachlor	20	8.5	17.07	0	119	50	140	18.71	8.20	25	
Heptachlor epoxide	32	8.5	17.07	0	187	65	130	28.14	12.6	25	S
Methoxychlor	47	8.5	17.07	0	273	55	145	41.53	11.6	25	S
Toxaphene	ND	170	17.07	0	0	60	130	0	0	25	SU
Surr: Decachlorobiphenyl	16		17.07		94.4	55	130		0	25	
Surr: Tetrachloro-m-xylene	16		17.07		91.4	70	125		0	25	

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8082A**

Sample ID:	lcs-23492	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	173052
Client ID:	LCSW	Batch ID:	23492	TestNo:	SW8082	SW3510C		Analysis Date:	9/22/2011	SeqNo:	843846

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	2	0.1	2.000	0	93.3	25	145				
Aroclor 1260	2	0.2	2.000	0	93.9	30	145				
Surr: Decachlorobiphenyl	0.1		0.1000		106	40	135				
Surr: Tetrachloro-m-xylene	0.08		0.1000		76.8	40	135				

Sample ID:	lcsd-23492	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	173052
Client ID:	LCSS02	Batch ID:	23492	TestNo:	SW8082	SW3510C		Analysis Date:	9/22/2011	SeqNo:	843848

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	2	0.1	2.000	0	105	25	145	1.866	12.2	25	
Aroclor 1260	2	0.2	2.000	0	101	30	145	1.878	7.40	25	
Surr: Decachlorobiphenyl	0.1		0.1000		113	40	135		0	25	
Surr: Tetrachloro-m-xylene	0.09		0.1000		88.1	40	135		0	25	

Sample ID:	lcs-23434	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	8/31/2011	RunNo:	173056
Client ID:	LCSW	Batch ID:	23434	TestNo:	SW8082	SW3510C		Analysis Date:	9/12/2011	SeqNo:	843922

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	2	0.1	2.000	0	105	25	145				
Aroclor 1260	2	0.2	2.000	0	87.0	30	145				
Surr: Decachlorobiphenyl	0.08		0.1000		77.1	40	135				
Surr: Tetrachloro-m-xylene	0.08		0.1000		83.7	40	135				

Sample ID:	lcsd-23434	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	8/31/2011	RunNo:	173056
Client ID:	LCSS02	Batch ID:	23434	TestNo:	SW8082	SW3510C		Analysis Date:	9/12/2011	SeqNo:	843923

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	2	0.1	2.000	0	109	25	145	2.092	4.09	25	
Aroclor 1260	2	0.2	2.000	0	94.3	30	145	1.741	7.99	25	
Surr: Decachlorobiphenyl	0.08		0.1000		84.0	40	135		0	25	
Surr: Tetrachloro-m-xylene	0.09		0.1000		87.8	40	135		0	25	

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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8082A**

Sample ID:	mb-23434	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	8/31/2011	RunNo:	519168
Client ID:	PBW	Batch ID:	23434	TestNo:	SW8082	SW3510C		Analysis Date:	9/12/2011	SeqNo:	843925

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.1									U
Aroclor 1221	ND	0.1									U
Aroclor 1232	ND	0.2									U
Aroclor 1242	ND	0.2									U
Aroclor 1248	ND	0.1									U
Aroclor 1254	ND	0.2									U
Aroclor 1260	ND	0.2									U
Aroclor 1262	ND	0.2									U
Aroclor 1268	ND	0.1									U
Total PCBs	ND	0.2									U
Surr: Decachlorobiphenyl	0.09		0.1000		92.6	40	135				
Surr: Tetrachloro-m-xylene	0.1		0.1000		95.5	40	135				

Sample ID:	mb-23492	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	519156
Client ID:	PBW	Batch ID:	23492	TestNo:	SW8082	SW3510C		Analysis Date:	9/22/2011	SeqNo:	846899

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.1									U
Aroclor 1221	ND	0.1									U
Aroclor 1232	ND	0.2									U
Aroclor 1242	ND	0.2									U
Aroclor 1248	ND	0.1									U
Aroclor 1254	ND	0.2									U
Aroclor 1260	ND	0.2									U
Aroclor 1262	ND	0.2									U
Aroclor 1268	ND	0.1									U
Total PCBs	ND	0.2									U
Surr: Decachlorobiphenyl	0.1		0.1000		112	40	135				
Surr: Tetrachloro-m-xylene	0.09		0.1000		90.4	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8082S**

Sample ID:	1108974-001ams	Samp Type:	MS	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/31/2011	RunNo:	127920	
Client ID:	ZZZZZZ	Batch ID:	23440	TestNo:	SW8082	SW3550C		Analysis Date:	9/4/2011	SeqNo:	826623	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Aroclor 1016	130	33	165.9	0	76.9	40	140					
Surr: Decachlorobiphenyl	4.4		8.295		53.2	60	125				S	
Surr: Tetrachloro-m-xylene	5.2		8.295		63.2	60	125					

Sample ID:	1108974-001amsd	Samp Type:	MSD	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/31/2011	RunNo:	127920	
Client ID:	ZZZZZZ	Batch ID:	23440	TestNo:	SW8082	SW3550C		Analysis Date:	9/4/2011	SeqNo:	826624	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Aroclor 1016	120	33	166.2	0	73.0	40	140	127.5	4.92	25		
Surr: Decachlorobiphenyl	3.5		8.311		42.1	60	125		0	25	S	
Surr: Tetrachloro-m-xylene	5.4		8.311		64.6	60	125		0	25		

Sample ID:	lcs-23440	Samp Type:	LCS	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/31/2011	RunNo:	170560	
Client ID:	LCSS	Batch ID:	23440	TestNo:	SW8082	SW3550C		Analysis Date:	9/4/2011	SeqNo:	830260	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Aroclor 1016	140	33	165.8	0	83.1	40	140					
Aroclor 1260	150	33	165.8	0	89.1	60	130					
Surr: Decachlorobiphenyl	5.9		8.289		71.4	60	125					
Surr: Tetrachloro-m-xylene	5.5		8.289		66.8	60	125					

Sample ID:	1108974-001ams	Samp Type:	MS	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/31/2011	RunNo:	42751	
Client ID:	ZZZZZZ	Batch ID:	23440	TestNo:	SW8082	SW3550C		Analysis Date:	9/9/2011	SeqNo:	832047	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Aroclor 1260	1,300	660	165.9	1,594	-194	60	130				S	

Sample ID:	1108974-001amsd	Samp Type:	MSD	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/31/2011	RunNo:	42751	
Client ID:	ZZZZZZ	Batch ID:	23440	TestNo:	SW8082	SW3550C		Analysis Date:	9/9/2011	SeqNo:	832048	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Aroclor 1260	1,400	660	166.2	1,594	-137	60	130	1,390	1.71	25	S	

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Date Reported: 1/13/2012
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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8082S**

Sample ID:	lcs-23410	Samp Type:	LCS	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/30/2011	RunNo:	173056
Client ID:	LCSS	Batch ID:	23410	TestNo:	SW8082	SW3550C		Analysis Date:	9/13/2011	SeqNo:	846910

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	190	33	165.8	0	116	40	140				
Aroclor 1260	200	33	165.8	0	119	60	130				
Surr: Decachlorobiphenyl	10		8.289		122	60	125				
Surr: Tetrachloro-m-xylene	9.2		8.289		111	60	125				

Sample ID:	mb-23410	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	8/30/2011	RunNo:	475904
Client ID:	PBS	Batch ID:	23410	TestNo:	SW8082	SW3550C		Analysis Date:	9/13/2011	SeqNo:	846911

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	ND	33									U
Aroclor 1221	ND	33									U
Aroclor 1232	ND	33									U
Aroclor 1242	ND	33									U
Aroclor 1248	ND	33									U
Aroclor 1254	ND	33									U
Aroclor 1260	ND	33									U
Aroclor 1262	ND	33									U
Total PCBs	ND	33									
Surr: Decachlorobiphenyl	10		8.300		122	60	125				
Surr: Tetrachloro-m-xylene	9.4		8.300		113	60	125				

Sample ID:	1108a20-002ams	Samp Type:	MS	Test Code:	SW_8082S	Units:	µg/Kg-dry	Prep Date:	8/30/2011	RunNo:	173056
Client ID:	MW-11-02	Batch ID:	23410	TestNo:	SW8082	SW3550C		Analysis Date:	9/14/2011	SeqNo:	846992

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	500	60	304.3	0	164	40	140				S
Aroclor 1260	270	60	304.3	31.00	78.9	60	130				
Surr: Decachlorobiphenyl	11		15.21		70.8	60	125				
Surr: Tetrachloro-m-xylene	16		15.21		108	60	125				

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8082S**

Sample ID:	**1108a20-002amsd**	Samp Type:	**MSD**	Test Code:	**SW_8082S**	Units:	**µg/Kg-dry**	Prep Date:	**8/30/2011**	RunNo:	**173056**
Client ID:	**MW-11-02**	Batch ID:	**23410**	TestNo:	**SW8082**	**SW3550C**		Analysis Date:	**9/14/2011**	SeqNo:	**846993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	510	60	301.6	0	169	40	140	497.8	2.19	25	S
Aroclor 1260	280	60	301.6	31.00	83.7	60	130	271.1	4.47	25	
Surr: Decachlorobiphenyl	11		15.08		73.1	60	125		0	25	
Surr: Tetrachloro-m-xylene	16		15.08		109	60	125		0	25	

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Date Reported: 1/13/2012
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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	**MB-23475**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**9/2/2011**	RunNo:	**981548**
Client ID:	**PBW**	Batch ID:	**23475**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**9/6/2011**	SeqNo:	**827746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	1.0									U
Acenaphthene	ND	1.0									U
Acenaphthylene	ND	1.0									U
Anthracene	ND	1.0									U
Benz(a)anthracene	ND	1.0									U
Benzo(a)pyrene	ND	1.0									U
Benzo(b)fluoranthene	ND	1.0									U
Benzo(g,h,i)perylene	ND	1.0									U
Benzo(k)fluoranthene	ND	1.0									U
Chrysene	ND	1.0									U
Dibenz(a,h)anthracene	ND	1.0									U
Fluoranthene	ND	1.0									U
Fluorene	ND	1.0									U
Indeno(1,2,3-cd)pyrene	ND	1.0									U
Naphthalene	ND	1.0									U
Phenanthrene	ND	1.0									U
Pyrene	ND	1.0									U
Surr: 2,4,6-Tribromophenol	12		25.00		47.0	40	125				
Surr: 2-Fluorobiphenyl	13		25.00		51.8	50	110				
Surr: 2-Fluorophenol	6.6		25.00		26.4	20	110				
Surr: Nitrobenzene-d5	18		25.00		73.8	40	110				
Surr: Phenol-d5	4.5		25.00		17.9	20	130				S
Surr: Terphenyl-d14	21		25.00		84.4	50	135				

Sample ID:	**LCS-23475**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**9/2/2011**	RunNo:	**981548**
Client ID:	**LCSW**	Batch ID:	**23475**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**9/6/2011**	SeqNo:	**827747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	11	1.0	20.00	0	56.0	45	105				
Acenaphthene	13	1.0	20.00	0	66.7	45	110				
Acenaphthylene	14	1.0	20.00	0	70.2	50	105				

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	LCS-23475	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/2/2011	RunNo:	981548
Client ID:	LCSW	Batch ID:	23475	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2011	SeqNo:	827747

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Anthracene	16	1.0	20.00	0	79.5	55	110				
Benz(a)anthracene	17	1.0	20.00	0	86.9	55	110				
Benzo(a)pyrene	17	1.0	20.00	0	85.2	55	110				
Benzo(b)fluoranthene	16	1.0	20.00	0	79.6	45	120				m
Benzo(g,h,i)perylene	19	1.0	20.00	0	95.3	40	125				
Benzo(k)fluoranthene	17	1.0	20.00	0	86.9	45	125				
Chrysene	18	1.0	20.00	0	89.2	55	110				
Dibenz(a,h)anthracene	19	1.0	20.00	0	93.6	40	125				
Fluoranthene	17	1.0	20.00	0	84.5	55	115				
Fluorene	15	1.0	20.00	0	74.6	50	110				
Indeno(1,2,3-cd)pyrene	18	1.0	20.00	0	91.7	45	125				
Naphthalene	11	1.0	20.00	0	56.3	40	100				
Phenanthrene	16	1.0	20.00	0	81.2	50	115				
Pyrene	18	1.0	20.00	0	87.8	50	130				
Surr: 2,4,6-Tribromophenol	12		25.00		46.8	40	125				
Surr: 2-Fluorobiphenyl	13		25.00		52.6	50	110				
Surr: 2-Fluorophenol	7.0		25.00		28.1	20	110				
Surr: Nitrobenzene-d5	19		25.00		75.0	40	110				
Surr: Phenol-d5	4.5		25.00		17.9	20	130				S
Surr: Terphenyl-d14	23		25.00		91.5	50	135				

Sample ID:	1108A20-024CMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/2/2011	RunNo:	981548
Client ID:	MW-11-01	Batch ID:	23475	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2011	SeqNo:	827749

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	25	2.2	43.48	0	56.9	45	105				
Acenaphthene	26	2.2	43.48	0	60.6	45	110				
Acenaphthylene	27	2.2	43.48	0	62.4	50	105				
Anthracene	29	2.2	43.48	0	67.0	55	110				
Benz(a)anthracene	34	2.2	43.48	0	79.0	55	110				
Benzo(a)pyrene	31	2.2	43.48	0	71.3	55	110				

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	1108A20-024CMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/2/2011	RunNo:	981548
Client ID:	MW-11-01	Batch ID:	23475	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2011	SeqNo:	827749

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	30	2.2	43.48	0	69.2	45	120				
Benzo(g,h,i)perylene	36	2.2	43.48	0	82.7	40	125				
Benzo(k)fluoranthene	32	2.2	43.48	0	73.7	45	125				m
Chrysene	30	2.2	43.48	0	69.6	55	110				
Dibenz(a,h)anthracene	34	2.2	43.48	0	78.4	40	125				
Fluoranthene	31	2.2	43.48	0	71.6	55	115				
Fluorene	29	2.2	43.48	0	67.4	50	110				
Indeno(1,2,3-cd)pyrene	34	2.2	43.48	0	78.1	45	125				
Naphthalene	25	2.2	43.48	0	58.3	40	100				
Phenanthrene	32	2.2	43.48	0	73.5	50	115				
Pyrene	33	2.2	43.48	0	76.2	50	130				
Surr: 2,4,6-Tribromophenol	21		54.35		38.4	40	125				S
Surr: 2-Fluorobiphenyl	30		54.35		55.7	50	110				
Surr: 2-Fluorophenol	16		54.35		29.0	20	110				
Surr: Nitrobenzene-d5	34		54.35		63.4	40	110				
Surr: Phenol-d5	13		54.35		23.4	20	130				
Surr: Terphenyl-d14	42		54.35		77.8	50	135				

Sample ID:	1108A20-024CMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/2/2011	RunNo:	981548
Client ID:	MW-11-01	Batch ID:	23475	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2011	SeqNo:	827750

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	30	2.2	43.48	0	69.1	45	105	24.72	19.5	25	
Acenaphthene	30	2.2	43.48	0	70.0	45	110	26.37	14.3	25	
Acenaphthylene	31	2.2	43.48	0	71.3	50	105	27.11	13.4	25	
Anthracene	31	2.2	43.48	0	70.8	55	110	29.15	5.51	25	
Benz(a)anthracene	37	2.2	43.48	0	85.1	55	110	34.37	7.37	25	
Benzo(a)pyrene	34	2.2	43.48	0	77.6	55	110	31.00	8.46	25	
Benzo(b)fluoranthene	36	2.2	43.48	0	82.5	45	120	30.07	17.5	25	
Benzo(g,h,i)perylene	38	2.2	43.48	0	86.8	40	125	35.96	4.90	25	
Benzo(k)fluoranthene	30	2.2	43.48	0	68.0	45	125	32.04	7.97	25	m

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	1108A20-024CMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/2/2011	RunNo:	981548
Client ID:	MW-11-01	Batch ID:	23475	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2011	SeqNo:	827750

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	33	2.2	43.48	0	76.3	55	110	30.24	9.26	25	
Dibenz(a,h)anthracene	37	2.2	43.48	0	85.0	40	125	34.07	8.20	25	
Fluoranthene	34	2.2	43.48	0	78.5	55	115	31.11	9.26	25	
Fluorene	32	2.2	43.48	0	73.9	50	110	29.33	9.06	25	
Indeno(1,2,3-cd)pyrene	36	2.2	43.48	0	82.8	45	125	33.93	5.97	25	
Naphthalene	30	2.2	43.48	0	69.0	40	100	25.35	16.9	25	
Phenanthrene	36	2.2	43.48	0	82.1	50	115	31.96	11.0	25	
Pyrene	36	2.2	43.48	0	81.8	50	130	33.15	6.96	25	
Surr: 2,4,6-Tribromophenol	24		54.35		43.8	40	125		0	25	
Surr: 2-Fluorobiphenyl	35		54.35		64.9	50	110		0	25	
Surr: 2-Fluorophenol	18		54.35		32.3	20	110		0	25	
Surr: Nitrobenzene-d5	40		54.35		73.2	40	110		0	25	
Surr: Phenol-d5	14		54.35		25.9	20	130		0	25	
Surr: Terphenyl-d14	46		54.35		83.8	50	135		0	25	

Sample ID:	MB-23490	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	986976
Client ID:	PBW	Batch ID:	23490	TestNo:	SW8270C	SW3510C		Analysis Date:	9/16/2011	SeqNo:	834161

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	1.0									U
Acenaphthene	ND	1.0									U
Acenaphthylene	ND	1.0									U
Anthracene	ND	1.0									U
Benz(a)anthracene	ND	1.0									U
Benzo(a)pyrene	ND	1.0									U
Benzo(b)fluoranthene	ND	1.0									U
Benzo(g,h,i)perylene	ND	1.0									U
Benzo(k)fluoranthene	ND	1.0									U
Chrysene	ND	1.0									U
Dibenz(a,h)anthracene	ND	1.0									U
Fluoranthene	ND	1.0									U

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	**MB-23490**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**9/6/2011**	RunNo:	**986976**
Client ID:	**PBW**	Batch ID:	**23490**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**9/16/2011**	SeqNo:	**834161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Fluorene	ND	1.0									U
Indeno(1,2,3-cd)pyrene	ND	1.0									U
Naphthalene	ND	1.0									U
Phenanthrene	ND	1.0									U
Pyrene	ND	1.0									U
Surr: 2,4,6-Tribromophenol	11		25.00		45.8	40	125				
Surr: 2-Fluorobiphenyl	16		25.00		62.2	50	110				
Surr: 2-Fluorophenol	6.4		25.00		25.6	20	110				
Surr: Nitrobenzene-d5	19		25.00		75.4	40	110				
Surr: Phenol-d5	4.1		25.00		16.6	20	130				S
Surr: Terphenyl-d14	24		25.00		96.7	50	135				

Sample ID:	**LCS-23490**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**9/6/2011**	RunNo:	**986976**
Client ID:	**LCSW**	Batch ID:	**23490**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**9/16/2011**	SeqNo:	**834162**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	13	1.0	20.00	0	65.6	45	105				
Acenaphthene	16	1.0	20.00	0	77.8	45	110				
Acenaphthylene	15	1.0	20.00	0	76.6	50	105				
Anthracene	17	1.0	20.00	0	84.3	55	110				
Benz(a)anthracene	20	1.0	20.00	0	98.4	55	110				m
Benzo(a)pyrene	21	1.0	20.00	0	104	55	110				
Benzo(b)fluoranthene	20	1.0	20.00	0	101	45	120				m
Benzo(g,h,i)perylene	18	1.0	20.00	0	90.4	40	125				
Benzo(k)fluoranthene	22	1.0	20.00	0	110	45	125				
Chrysene	19	1.0	20.00	0	95.6	55	110				
Dibenz(a,h)anthracene	18	1.0	20.00	0	91.5	40	125				
Fluoranthene	19	1.0	20.00	0	92.6	55	115				
Fluorene	17	1.0	20.00	0	86.0	50	110				
Indeno(1,2,3-cd)pyrene	17	1.0	20.00	0	86.8	45	125				
Naphthalene	13	1.0	20.00	0	67.1	40	100				

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	LCS-23490	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	986976
Client ID:	LCSW	Batch ID:	23490	TestNo:	SW8270C	SW3510C		Analysis Date:	9/16/2011	SeqNo:	834162

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenanthrene	18	1.0	20.00	0	91.5	50	115				m
Pyrene	20	1.0	20.00	0	102	50	130				
Surr: 2,4,6-Tribromophenol	13		25.00		52.2	40	125				
Surr: 2-Fluorobiphenyl	17		25.00		67.9	50	110				
Surr: 2-Fluorophenol	6.5		25.00		26.0	20	110				
Surr: Nitrobenzene-d5	18		25.00		73.1	40	110				
Surr: Phenol-d5	4.2		25.00		16.8	20	130				S
Surr: Terphenyl-d14	28		25.00		110	50	135				

Sample ID:	LCSD-23490	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	986976
Client ID:	LCSS02	Batch ID:	23490	TestNo:	SW8270C	SW3510C		Analysis Date:	9/16/2011	SeqNo:	834163

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	14	1.0	20.00	0	67.9	45	105	13.12	3.45	25	
Acenaphthene	16	1.0	20.00	0	78.8	45	110	15.55	1.40	25	
Acenaphthylene	16	1.0	20.00	0	78.0	50	105	15.31	1.81	25	
Anthracene	17	1.0	20.00	0	86.8	55	110	16.86	2.92	25	
Benz(a)anthracene	20	1.0	20.00	0	102	55	110	19.68	3.49	25	m
Benzo(a)pyrene	20	1.0	20.00	0	99.7	55	110	20.74	3.93	25	
Benzo(b)fluoranthene	22	1.0	20.00	0	108	45	120	20.16	7.04	25	m
Benzo(g,h,i)perylene	17	1.0	20.00	0	86.3	40	125	18.08	4.64	25	
Benzo(k)fluoranthene	20	1.0	20.00	0	98.0	45	125	21.90	11.0	25	
Chrysene	19	1.0	20.00	0	94.8	55	110	19.12	0.788	25	
Dibenz(a,h)anthracene	18	1.0	20.00	0	88.3	40	125	18.30	3.56	25	
Fluoranthene	19	1.0	20.00	0	92.7	55	115	18.51	0.162	25	
Fluorene	17	1.0	20.00	0	86.0	50	110	17.20	0.0582	25	
Indeno(1,2,3-cd)pyrene	18	1.0	20.00	0	87.6	45	125	17.36	0.917	25	
Naphthalene	14	1.0	20.00	0	70.6	40	100	13.42	5.15	25	
Phenanthrene	19	1.0	20.00	0	94.3	50	115	18.30	3.01	25	m
Pyrene	21	1.0	20.00	0	105	50	130	20.30	3.53	25	
Surr: 2,4,6-Tribromophenol	13		25.00		51.9	40	125		0	25	

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	LCSD-23490	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	986976
Client ID:	LCSS02	Batch ID:	23490	TestNo:	SW8270C	SW3510C		Analysis Date:	9/16/2011	SeqNo:	834163

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		25.00		57.6	50	110		0	25	
Surr: 2-Fluorophenol	6.4		25.00		25.7	20	110		0	25	
Surr: Nitrobenzene-d5	19		25.00		75.2	40	110		0	25	
Surr: Phenol-d5	4.0		25.00		15.8	20	130		0	25	S
Surr: Terphenyl-d14	27		25.00		110	50	135		0	25	

Sample ID:	LCSD-23490	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/6/2011	RunNo:	988264
Client ID:	LCSS02	Batch ID:	23490	TestNo:	SW8270C	SW3510C		Analysis Date:	9/21/2011	SeqNo:	835835

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	15	1.0	20.00	0	75.4	45	105				
Acenaphthene	17	1.0	20.00	0	83.5	45	110				
Acenaphthylene	17	1.0	20.00	0	84.2	50	105				
Anthracene	19	1.0	20.00	0	94.2	55	110				
Benz(a)anthracene	20	1.0	20.00	0	99.4	55	110				
Benzo(a)pyrene	20	1.0	20.00	0	102	55	110				
Benzo(b)fluoranthene	20	1.0	20.00	0	98.2	45	120				
Benzo(g,h,i)perylene	19	1.0	20.00	0	94.3	40	125				
Benzo(k)fluoranthene	21	1.0	20.00	0	105	45	125				
Chrysene	20	1.0	20.00	0	100	55	110				
Dibenz(a,h)anthracene	19	1.0	20.00	0	96.6	40	125				
Fluoranthene	20	1.0	20.00	0	99.6	55	115				
Fluorene	19	1.0	20.00	0	92.6	50	110				
Indeno(1,2,3-cd)pyrene	19	1.0	20.00	0	96.8	45	125				
Naphthalene	14	1.0	20.00	0	69.5	40	100				
Phenanthrene	19	1.0	20.00	0	93.4	50	115				
Pyrene	20	1.0	20.00	0	101	50	130				
Surr: 2,4,6-Tribromophenol	29		25.00		116	40	125				
Surr: 2-Fluorobiphenyl	16		25.00		63.3	50	110				
Surr: 2-Fluorophenol	13		25.00		52.2	20	110				
Surr: Nitrobenzene-d5	21		25.00		83.2	40	110				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270A**

Sample ID:	**LCSD-23490**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**9/6/2011**	RunNo:	**988264**
Client ID:	**LCSS02**	Batch ID:	**23490**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**9/21/2011**	SeqNo:	**835835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Phenol-d5	8.2		25.00		32.7	20	130				
Surr: Terphenyl-d14	24		25.00		97.5	50	135				

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270S**

Sample ID:	**MB-23454**	Samp Type:	**MBLK**	Test Code:	**SW_8270S**	Units:	**µg/Kg**	Prep Date:	**9/1/2011**	RunNo:	**990656**
Client ID:	**PBS**	Batch ID:	**23454**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**9/23/2011**	SeqNo:	**838522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	160									U
Acenaphthene	ND	160									U
Acenaphthylene	ND	160									U
Anthracene	ND	160									U
Benzo(a)anthracene	ND	160									U
Benzo(a)pyrene	ND	160									U
Benzo(b)fluoranthene	ND	160									U
Benzo(g,h,i)perylene	ND	160									U
Benzo(k)fluoranthene	ND	160									U
Chrysene	ND	160									U
Dibenzo (a,h) anthracene	ND	160									U
Fluoranthene	ND	160									U
Fluorene	ND	160									U
Indeno(1,2,3-cd)pyrene	ND	160									U
Naphthalene	ND	160									U
Phenanthrene	ND	160									U
Pyrene	ND	160									U
Surr: 2,4,6-Tribromophenol	590		828.9		71.2	35	125				
Surr: 2-Fluorobiphenyl	770		828.9		92.5	45	105				
Surr: 2-Fluorophenol	570		828.9		69.2	35	105				
Surr: Nitrobenzene-d5	690		828.9		83.7	35	100				
Surr: Phenol-d5	610		828.9		73.3	40	100				
Surr: Terphenyl-d14	810		828.9		98.3	30	125				

Sample ID:	**LCS-23465**	Samp Type:	**LCS**	Test Code:	**SW_8270S**	Units:	**µg/Kg**	Prep Date:	**9/1/2011**	RunNo:	**992427**
Client ID:	**LCSS**	Batch ID:	**23465**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**9/29/2011**	SeqNo:	**840559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	590	160	665.1	0	89.0	45	105				
Acenaphthene	590	160	665.1	0	89.1	45	110				
Acenaphthylene	580	160	665.1	0	87.7	45	105				

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270S**

Sample ID:	LCS-23465	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	992427
Client ID:	LCSS	Batch ID:	23465	TestNo:	SW8270C	SW3550C		Analysis Date:	9/29/2011	SeqNo:	840559

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Anthracene	590	160	665.1	0	88.0	55	105				
Benzo(a)anthracene	610	160	665.1	0	91.0	50	110				
Benzo(a)pyrene	600	160	665.1	0	89.5	50	110				
Benzo(b)fluoranthene	680	160	665.1	0	103	45	115				m
Benzo(g,h,i)perylene	360	160	665.1	0	53.6	40	125				
Benzo(k)fluoranthene	680	160	665.1	0	102	45	125				
Chrysene	610	160	665.1	0	92.3	55	110				
Dibenzo (a,h) anthracene	450	160	665.1	0	67.3	40	125				
Fluoranthene	600	160	665.1	0	89.5	55	115				
Fluorene	610	160	665.1	0	92.4	50	110				
Indeno(1,2,3-cd)pyrene	410	160	665.1	0	62.0	40	120				
Naphthalene	560	160	665.1	0	84.8	40	105				
Phenanthrene	600	160	665.1	0	90.0	50	110				
Pyrene	690	160	665.1	0	104	45	125				
Surr: 2,4,6-Tribromophenol	770		831.4		92.5	35	125				
Surr: 2-Fluorobiphenyl	710		831.4		84.8	45	105				
Surr: 2-Fluorophenol	690		831.4		83.1	35	105				
Surr: Nitrobenzene-d5	710		831.4		85.5	35	100				
Surr: Phenol-d5	710		831.4		85.9	40	100				
Surr: Terphenyl-d14	850		831.4		102	30	125				

Sample ID:	MB-23465	Samp Type:	MBlk	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	992427
Client ID:	PBS	Batch ID:	23465	TestNo:	SW8270C	SW3550C		Analysis Date:	9/29/2011	SeqNo:	840579

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	160									U
Acenaphthene	ND	160									U
Acenaphthylene	ND	160									U
Anthracene	ND	160									U
Benzo(a)anthracene	ND	160									U
Benzo(a)pyrene	ND	160									U

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270S**

Sample ID:	MB-23465	Samp Type:	MBlk	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	992427
Client ID:	PBS	Batch ID:	23465	TestNo:	SW8270C	SW3550C		Analysis Date:	9/29/2011	SeqNo:	840579

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	ND	160									U
Benzo(g,h,i)perylene	ND	160									U
Benzo(k)fluoranthene	ND	160									U
Chrysene	ND	160									U
Dibenzo (a,h) anthracene	ND	160									U
Fluoranthene	ND	160									U
Fluorene	ND	160									U
Indeno(1,2,3-cd)pyrene	ND	160									U
Naphthalene	ND	160									U
Phenanthrene	ND	160									U
Pyrene	ND	160									U
Surr: 2,4,6-Tribromophenol	650		830.6		78.4	35	125				
Surr: 2-Fluorobiphenyl	700		830.6		84.0	45	105				
Surr: 2-Fluorophenol	640		830.6		76.9	35	105				
Surr: Nitrobenzene-d5	660		830.6		79.8	35	100				
Surr: Phenol-d5	660		830.6		79.0	40	100				
Surr: Terphenyl-d14	870		830.6		104	30	125				

Sample ID:	1108974-002AMS	Samp Type:	MS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	994290
Client ID:	ZZZZZZ	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	10/3/2011	SeqNo:	842981

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	570	800	663.1	0	86.0	45	105				J
Acenaphthene	830	800	663.1	0	125	45	110				S
Acenaphthylene	570	800	663.1	0	86.5	45	105				J
Anthracene	1,200	800	663.1	0	178	55	105				S
Benzo(a)anthracene	2,300	800	663.1	0	340	50	110				S
Benzo(a)pyrene	2,000	800	663.1	0	296	50	110				S
Benzo(b)fluoranthene	2,500	800	663.1	0	373	45	115				Sm
Benzo(g,h,i)perylene	830	800	663.1	0	125	40	125				
Benzo(k)fluoranthene	1,700	800	663.1	0	251	45	125				Sm

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270S**

Sample ID:	1108974-002AMS	Samp Type:	MS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	994290
Client ID:	ZZZZZZ	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	10/3/2011	SeqNo:	842981

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	2,200	800	663.1	0	326	55	110				S
Dibenzo (a,h) anthracene	500	800	663.1	0	75.2	40	125				J
Fluoranthene	3,000	800	663.1	0	458	55	115				S
Fluorene	870	800	663.1	0	131	50	110				S
Indeno(1,2,3-cd)pyrene	930	800	663.1	0	140	40	120				S
Naphthalene	550	800	663.1	0	83.5	40	105				J
Phenanthrene	2,500	800	663.1	0	374	50	110				S
Pyrene	3,300	800	663.1	0	493	45	125				S
Surr: 2,4,6-Tribromophenol	600		828.9		72.0	35	125				
Surr: 2-Fluorobiphenyl	540		828.9		64.6	45	105				
Surr: 2-Fluorophenol	320		828.9		38.2	35	105				
Surr: Nitrobenzene-d5	510		828.9		61.8	35	100				
Surr: Phenol-d5	560		828.9		67.8	40	100				
Surr: Terphenyl-d14	790		828.9		95.0	30	125				

Sample ID:	1108974-002AMSD	Samp Type:	MSD	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	958012
Client ID:	ZZZZZZ	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	10/18/2011	SeqNo:	851377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	810	4,000	666.0	102.1	106	45	105	570.3	34.4	25	JSRH
Acenaphthene	1,100	4,000	666.0	159.4	141	45	110	832.2	27.6	25	JSRH
Acenaphthylene	840	4,000	666.0	92.16	112	45	105	573.6	37.8	25	JSRH
Anthracene	1,700	4,000	666.0	368.6	198	55	105	1,180	35.5	25	JSRH
Benzo(a)anthracene	3,500	4,000	666.0	1,686	276	50	110	2,255	43.9	25	JSRH
Benzo(a)pyrene	3,000	4,000	666.0	1,445	234	50	110	1,963	42.0	25	JSRH
Benzo(b)fluoranthene	3,900	4,000	666.0	1,960	286	45	115	2,473	43.9	25	JSRmH
Benzo(g,h,i)perylene	1,500	4,000	666.0	640.2	125	40	125	828.9	56.0	25	JSRH
Benzo(k)fluoranthene	2,100	4,000	666.0	1,138	138	45	125	1,663	21.2	25	JSmH
Chrysene	3,200	4,000	666.0	1,447	259	55	110	2,165	37.7	25	JSRH
Dibenzo (a,h) anthracene	840	4,000	666.0	0	126	40	125	499.0	51.0	25	JSRH
Fluoranthene	5,000	4,000	666.0	2,742	332	55	115	3,040	47.9	25	SRH

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270S**

Sample ID:	1108974-002AMSD	Samp Type:	MSD	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	958012
Client ID:	ZZZZZZ	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	10/18/2011	SeqNo:	851377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Fluorene	1,100	4,000	666.0	127.0	146	50	110	867.0	23.6	25	JSH
Indeno(1,2,3-cd)pyrene	1,400	4,000	666.0	590.3	120	40	120	930.0	39.7	25	JSRH
Naphthalene	820	4,000	666.0	109.6	106	40	105	553.7	38.3	25	JSRH
Phenanthrene	3,500	4,000	666.0	1,465	311	50	110	2,483	35.0	25	JSRH
Surr: 2,4,6-Tribromophenol	530		832.5		64.0	35	125		0	25	H
Surr: 2-Fluorobiphenyl	790		832.5		95.0	45	105		0	25	H
Surr: 2-Fluorophenol	550		832.5		66.0	35	105		0	25	H
Surr: Nitrobenzene-d5	790		832.5		95.0	35	100		0	25	H
Surr: Phenol-d5	700		832.5		84.0	40	100		0	25	H
Surr: Terphenyl-d14	1,000		832.5		120	30	125		0	25	H

Sample ID:	LCS-23454	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	990656
Client ID:	LCSS	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	9/23/2011	SeqNo:	872056

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	620	160	663.8	0	93.6	45	105				
Acenaphthene	640	160	663.8	0	96.5	45	110				
Acenaphthylene	620	160	663.8	0	92.6	45	105				
Anthracene	610	160	663.8	0	91.4	55	105				
Benzo(a)anthracene	630	160	663.8	0	94.8	50	110				
Benzo(a)pyrene	630	160	663.8	0	95.2	50	110				
Benzo(b)fluoranthene	620	160	663.8	0	93.9	45	115				
Benzo(g,h,i)perylene	640	160	663.8	0	95.7	40	125				
Benzo(k)fluoranthene	660	160	663.8	0	99.3	45	125				
Chrysene	700	160	663.8	0	106	55	110				
Dibenzo (a,h) anthracene	670	160	663.8	0	101	40	125				
Fluoranthene	650	160	663.8	0	98.5	55	115				
Fluorene	630	160	663.8	0	94.9	50	110				
Indeno(1,2,3-cd)pyrene	660	160	663.8	0	99.1	40	120				
Naphthalene	600	160	663.8	0	89.7	40	105				
Phenanthrene	660	160	663.8	0	99.5	50	110				

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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_8270S**

Sample ID:	LCS-23454	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	990656
Client ID:	LCSS	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	9/23/2011	SeqNo:	872056

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pyrene	660	160	663.8	0	98.9	45	125				
Surr: 2,4,6-Tribromophenol	750		829.7		89.9	35	125				
Surr: 2-Fluorobiphenyl	780		829.7		94.4	45	105				
Surr: 2-Fluorophenol	690		829.7		83.5	35	105				
Surr: Nitrobenzene-d5	760		829.7		92.1	35	100				
Surr: Phenol-d5	720		829.7		86.3	40	100				
Surr: Terphenyl-d14	860		829.7		103	30	125				

Sample ID:	1108974-002AMSD	Samp Type:	MSD	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	45010
Client ID:	ZZZZZZ	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	10/18/2011	SeqNo:	885534

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pyrene	5,000	4,000	666.0	2,551	368	45	125	3,268	42.0	25	SRH

Sample ID:	MB-23454	Samp Type:	MBLK	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	45255
Client ID:	PBS	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	9/23/2011	SeqNo:	890144

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pyrene	ND	160									U

Sample ID:	LCS-23454	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	9/1/2011	RunNo:	45255
Client ID:	LCSS	Batch ID:	23454	TestNo:	SW8270C	SW3550C		Analysis Date:	9/23/2011	SeqNo:	890145

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pyrene	680	160	663.8	0	102	45	125				

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WO#: 1108A20

Date Reported: 1/13/2012
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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_9012S**

Sample ID:	MB-23489	Samp Type:	MBLK	Test Code:	SW_9012S	Units:	mg/Kg	Prep Date:	9/6/2011	RunNo:	42644	
Client ID:	PBS	Batch ID:	23489	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829367	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	ND	1.0									U	

Sample ID:	LCS-23489	Samp Type:	LCS	Test Code:	SW_9012S	Units:	mg/Kg	Prep Date:	9/6/2011	RunNo:	42644	
Client ID:	LCSS	Batch ID:	23489	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829368	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	1.9	1.0	2.000	0	97.1	80	120					

Sample ID:	1108A20-008DMS	Samp Type:	MS	Test Code:	SW_9012S	Units:	mg/Kg-dry	Prep Date:	9/6/2011	RunNo:	42644	
Client ID:	MW-11-08	Batch ID:	23489	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829370	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	14	2.4	12.13	1.304	106	80	120					

Sample ID:	1108A20-008DMSD	Samp Type:	MSD	Test Code:	SW_9012S	Units:	mg/Kg-dry	Prep Date:	9/6/2011	RunNo:	42644	
Client ID:	MW-11-08	Batch ID:	23489	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829371	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	8.8	2.4	12.13	1.304	62.1	80	120	14.11	45.9	25	SR	

Sample ID:	MB-23503	Samp Type:	MBLK	Test Code:	SW_9012S	Units:	mg/Kg	Prep Date:	9/7/2011	RunNo:	42644	
Client ID:	PBS	Batch ID:	23503	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829403	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	ND	1.0										

Sample ID:	LCS-23503	Samp Type:	LCS	Test Code:	SW_9012S	Units:	mg/Kg	Prep Date:	9/7/2011	RunNo:	42644	
Client ID:	LCSS	Batch ID:	23503	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829404	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	1.9	1.0	2.000	0	95.7	80	120					

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WO#: 1108A20

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Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_9012S**

Sample ID:	1108A20-017DMS	Samp Type:	MS	Test Code:	SW_9012S	Units:	mg/Kg-dry	Prep Date:	9/7/2011	RunNo:	42644	
Client ID:	MW-11-17	Batch ID:	23503	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829406	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	13	2.5	12.45	0.9908	96.6	80	120					

Sample ID:	1108A20-017DMSD	Samp Type:	MSD	Test Code:	SW_9012S	Units:	mg/Kg-dry	Prep Date:	9/7/2011	RunNo:	42644	
Client ID:	MW-11-17	Batch ID:	23503	TestNo:	SW9012A			Analysis Date:	9/7/2011	SeqNo:	829407	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	12	2.5	12.45	0.9908	89.0	80	120	13.01	7.53	25		

Sample ID:	MB-23533	Samp Type:	MBLK	Test Code:	SW_9012S	Units:	mg/Kg	Prep Date:	9/8/2011	RunNo:	42736	
Client ID:	PBS	Batch ID:	23533	TestNo:	SW9012A			Analysis Date:	9/9/2011	SeqNo:	829482	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	ND	1.0									U	

Sample ID:	LCS-23533	Samp Type:	LCS	Test Code:	SW_9012S	Units:	mg/Kg	Prep Date:	9/8/2011	RunNo:	42736	
Client ID:	LCSS	Batch ID:	23533	TestNo:	SW9012A			Analysis Date:	9/9/2011	SeqNo:	829483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	1.8	1.0	2.000	0	90.0	80	120					

Sample ID:	1108A20-023DMS	Samp Type:	MS	Test Code:	SW_9012S	Units:	mg/Kg-dry	Prep Date:	9/8/2011	RunNo:	42736	
Client ID:	MW-11-23	Batch ID:	23533	TestNo:	SW9012A			Analysis Date:	9/9/2011	SeqNo:	829485	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	15	2.4	11.86	1.088	115	80	120					

Sample ID:	1108A20-023DMSD	Samp Type:	MSD	Test Code:	SW_9012S	Units:	mg/Kg-dry	Prep Date:	9/8/2011	RunNo:	42736	
Client ID:	MW-11-23	Batch ID:	23533	TestNo:	SW9012A			Analysis Date:	9/9/2011	SeqNo:	829486	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Total	14	2.4	11.86	1.088	106	80	120	14.78	7.79	25		

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WO#: 1108A20

Date Reported: 1/13/2012
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Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_9060S**

Sample ID:	1108A20-011DMS	Samp Type:	MS	Test Code:	SW_9060S	Units:	mg/Kg	Prep Date:	9/1/2011	RunNo:	42654
Client ID:	MW-11-11	Batch ID:	23471	TestNo:	SW9060			Analysis Date:	9/3/2011	SeqNo:	827020

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Organic Carbon, Total	140,000	7,200	71,740	76,060	93.6	70	130				

Sample ID:	1108A20-011DMSD	Samp Type:	MSD	Test Code:	SW_9060S	Units:	mg/Kg	Prep Date:	9/1/2011	RunNo:	42654
Client ID:	MW-11-11	Batch ID:	23471	TestNo:	SW9060			Analysis Date:	9/3/2011	SeqNo:	827021

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Organic Carbon, Total	150,000	7,800	78,250	76,060	88.8	70	130	143,200	1.63	25	

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WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Client: USACE- Detroit District

Project: Sediment Sampling Milwaukee **Test Code: SW_9071**

Sample ID:	LCS-23469	Samp Type:	LCS	Test Code:	SW_9071	Units:	mg/Kg	Prep Date:	9/1/2011	RunNo:	42667
Client ID:	LCSS	Batch ID:	23469	TestNo:	SW9071	SW3540C		Analysis Date:	9/3/2011	SeqNo:	827330

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease, Total	1,200	100	1,333	0	89.5	70	120				

Sample ID:	MB-23469	Samp Type:	MBLK	Test Code:	SW_9071	Units:	mg/Kg	Prep Date:	9/1/2011	RunNo:	42667
Client ID:	PBS	Batch ID:	23469	TestNo:	SW9071	SW3540C		Analysis Date:	9/3/2011	SeqNo:	827331

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease, Total	ND	100									U

Sample ID:	LCS-23470	Samp Type:	lcs	Test Code:	SW_9071	Units:	mg/Kg	Prep Date:	9/2/2011	RunNo:	42667
Client ID:	LCSS	Batch ID:	23470	TestNo:	SW9071	SW3540C		Analysis Date:	9/3/2011	SeqNo:	827332

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease, Total	1,200	100	1,333	0	90.5	70	120				

Sample ID:	MB-23470	Samp Type:	mblk	Test Code:	SW_9071	Units:	mg/Kg	Prep Date:	9/2/2011	RunNo:	42667
Client ID:	PBS	Batch ID:	23470	TestNo:	SW9071	SW3540C		Analysis Date:	9/3/2011	SeqNo:	827333

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease, Total	ND	100									U

Sample ID:	1108A20-001Dms	Samp Type:	ms	Test Code:	SW_9071	Units:	mg/Kg-dry	Prep Date:	9/1/2011	RunNo:	42667
Client ID:	MW-11-01	Batch ID:	23469	TestNo:	SW9071	SW3540C		Analysis Date:	9/3/2011	SeqNo:	827335

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease, Total	4,100	180	2,337	2,395	72.7	70	120				

Sample ID:	1108A20-001Dmsd	Samp Type:	msd	Test Code:	SW_9071	Units:	mg/Kg-dry	Prep Date:	9/1/2011	RunNo:	42667
Client ID:	MW-11-01	Batch ID:	23469	TestNo:	SW9071	SW3540C		Analysis Date:	9/3/2011	SeqNo:	827336

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease, Total	4,100	170	2,326	2,395	71.3	70	120	4,096	1.04	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1108A20

Date Reported: 1/13/2012
Revision v1

Definitions:

% REC: Percent Recovery; a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration added to the sample.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration.

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: The duplicate sample of the LCS, used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes
or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: The duplicate sample of the MS, used to calculate both Accuracy (%REC) and Precision (%RPD)

PL: Permit limit; only applicable to wastewater reports.

Qual: Qualifier that applies to the analyte reported

Result: Analyte concentration reported

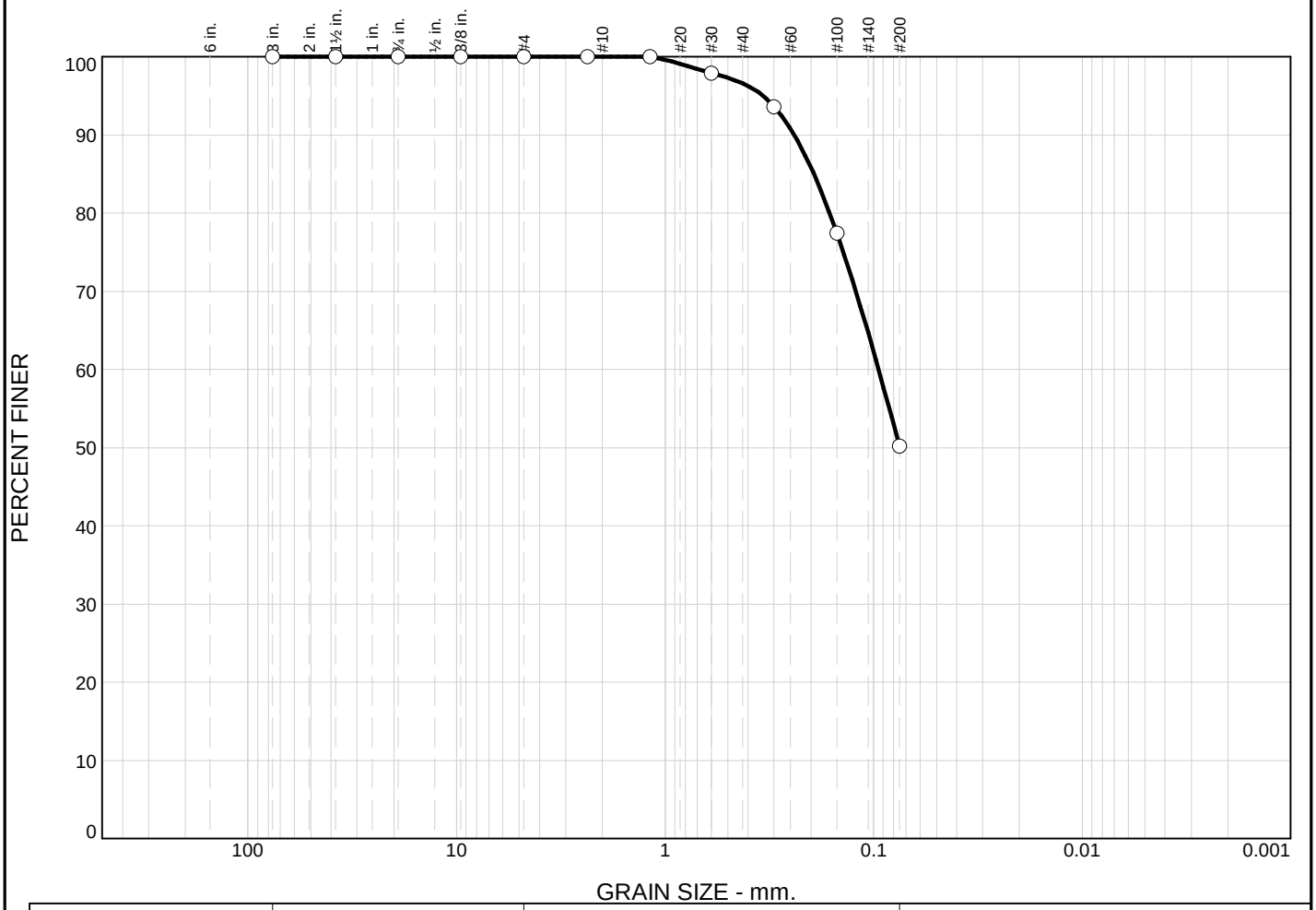
RL: Reporting Limit/Limit of Quantitation; the limit to which data is compared for reporting. Analyte concentrations below the reporting limit are reported as ND or with a “J” qualifier.

Units: The units in which the analyte concentration is reported.

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Estimated concentration
M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit
PL	Permit Limit
RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	3.4	46.4	50.2	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.1935	0.0947						

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-01 **Sample Number:** 1108A20-001

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-01
Sample Number: 1108A20-001
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.60	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	615.60	615.60	100.0
		#4	547.30	547.30	100.0
		#8	480.30	480.30	100.0
		#16	418.40	418.40	100.0
		#30	415.50	413.40	97.9
		#50	376.80	372.50	93.6
		#100	377.90	361.60	77.4
		#200	360.50	333.10	50.2

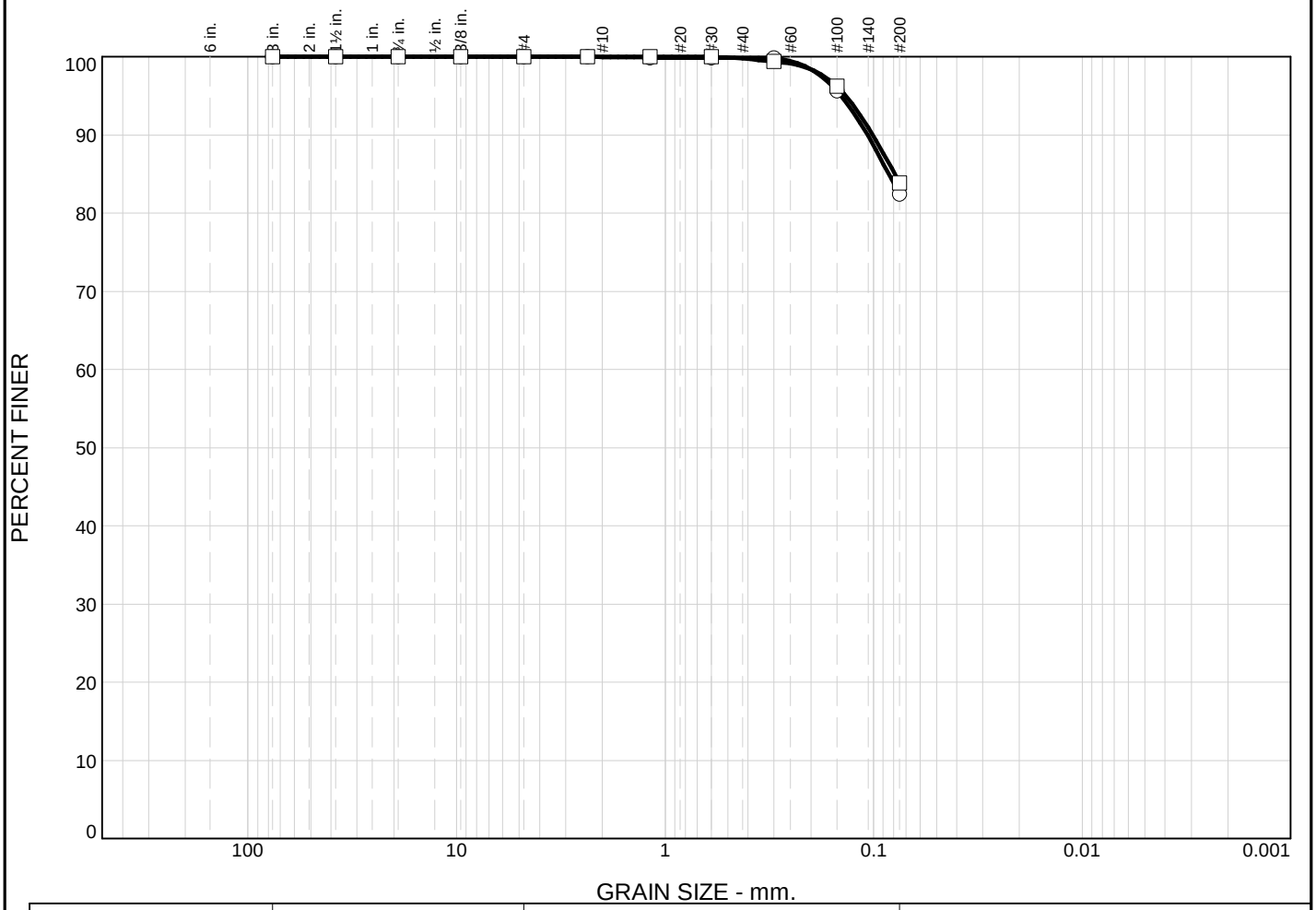
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	3.4	46.4	49.8			50.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
					0.0947	0.1625	0.1935	0.2405	0.3385

Fineness Modulus
0.31

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.1	17.5	82.4	
□	0.0	0.0	0.0	0.0	0.2	15.9	83.9	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.0843							
□				0.0790							

	Material Description	USCS	AASHTO
○			
□			

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-02 **Sample Number:** 1108A20-002

□ **Source of Sample:** MW-11-02 **Sample Number:** 1108A20-002DUP

Date: ○ □

RTI LABORATORIES

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Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-02
Sample Number: 1108A20-002
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.70	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	547.40	547.40	100.0
		#4	504.60	504.60	100.0
		#8	502.30	502.30	100.0
		#16	440.80	440.70	99.9
		#30	474.00	474.00	99.9
		#50	380.10	380.10	99.9
		#100	346.70	342.40	95.6
		#200	349.10	335.80	82.4

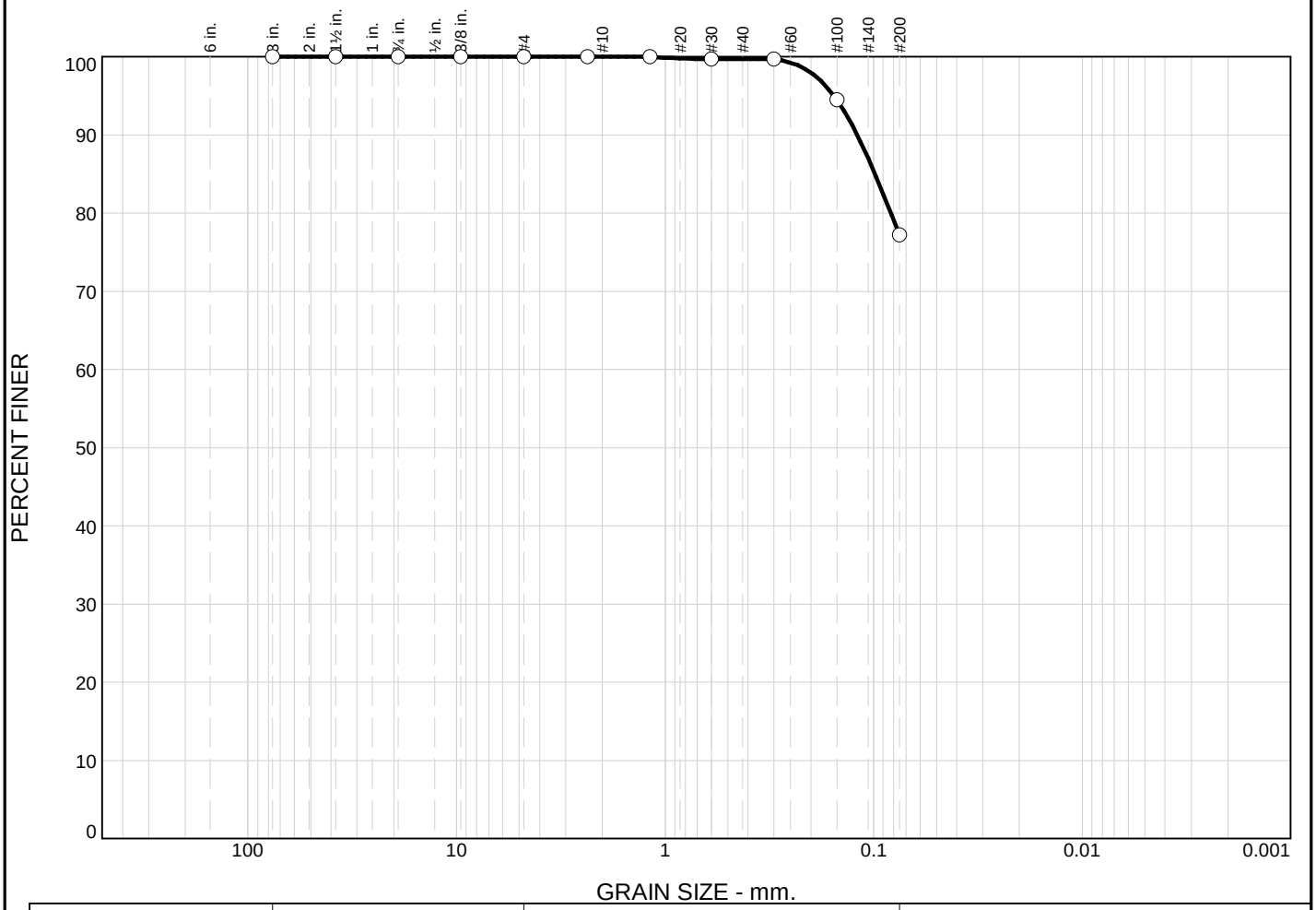
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.1	17.5	17.6			82.4

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
							0.0843	0.1071	0.1432

Fineness Modulus
0.05

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.3	22.5	77.2	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.0986							

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-03 **Sample Number:** 1108A20-003

Date: ○

RTI LABORATORIES

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Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-03
Sample Number: 1108A20-003
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.10	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	548.30	548.30	100.0
		#4	504.80	504.80	100.0
		#8	504.10	504.10	100.0
		#16	444.50	444.50	100.0
		#30	474.80	474.50	99.7
		#50	381.00	381.00	99.7
		#100	347.60	342.40	94.5
		#200	354.00	336.70	77.2

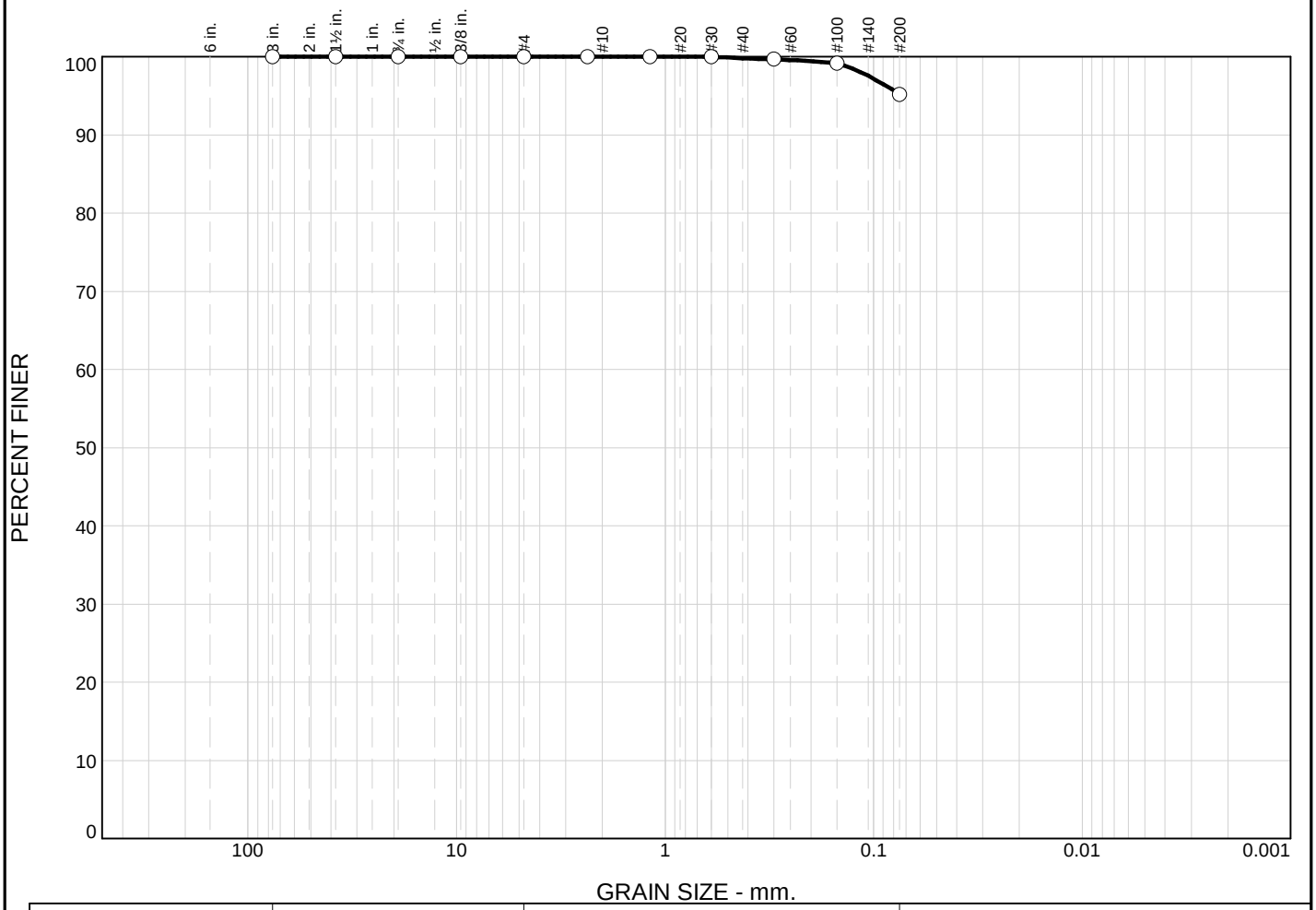
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.3	22.5	22.8			77.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
						0.0825	0.0986	0.1201	0.1547

Fineness Modulus
0.06

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.2	4.6	95.2	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-04 **Sample Number:** 1108A20-004

Date: ○

RTI LABORATORIES

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Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-04
Sample Number: 1108A20-004
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.60	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	617.10	617.10	100.0
		#4	546.90	546.90	100.0
		#8	478.40	478.40	100.0
		#16	419.80	419.80	100.0
		#30	415.20	415.20	100.0
		#50	373.60	373.30	99.7
		#100	365.30	364.80	99.2
		#200	339.00	335.00	95.2

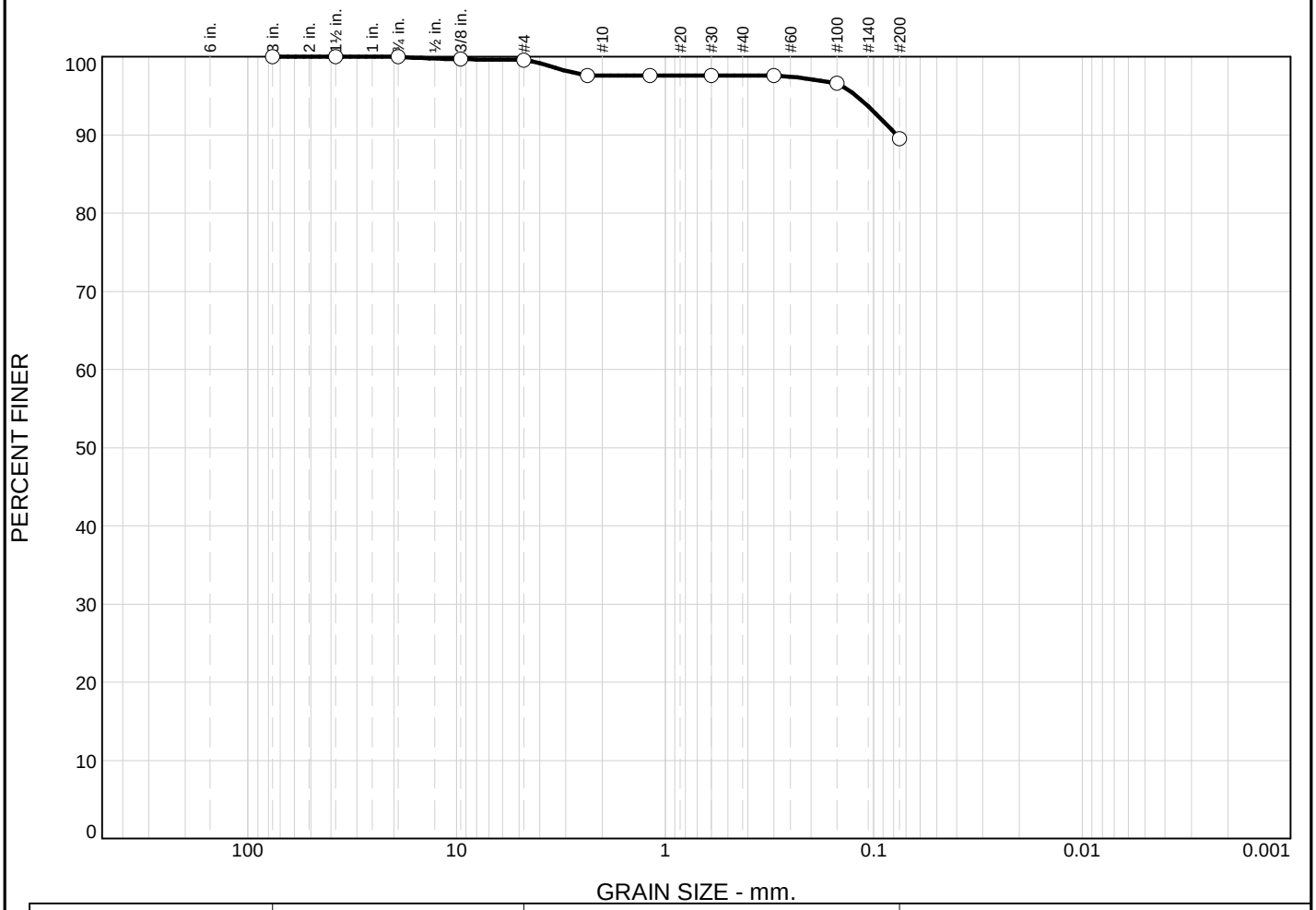
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.2	4.6	4.8			95.2

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}

Fineness Modulus
0.01

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.4	2.0	0.0	8.0	89.6	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-05 **Sample Number:** 1108A20-005

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-05
Sample Number: 1108A20-005
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.50	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	548.40	548.10	99.7
		#4	504.50	504.40	99.6
		#8	505.30	503.30	97.6
		#16	441.70	441.70	97.6
		#30	477.40	477.40	97.6
		#50	384.80	384.80	97.6
		#100	344.80	343.80	96.6
		#200	343.80	336.70	89.6

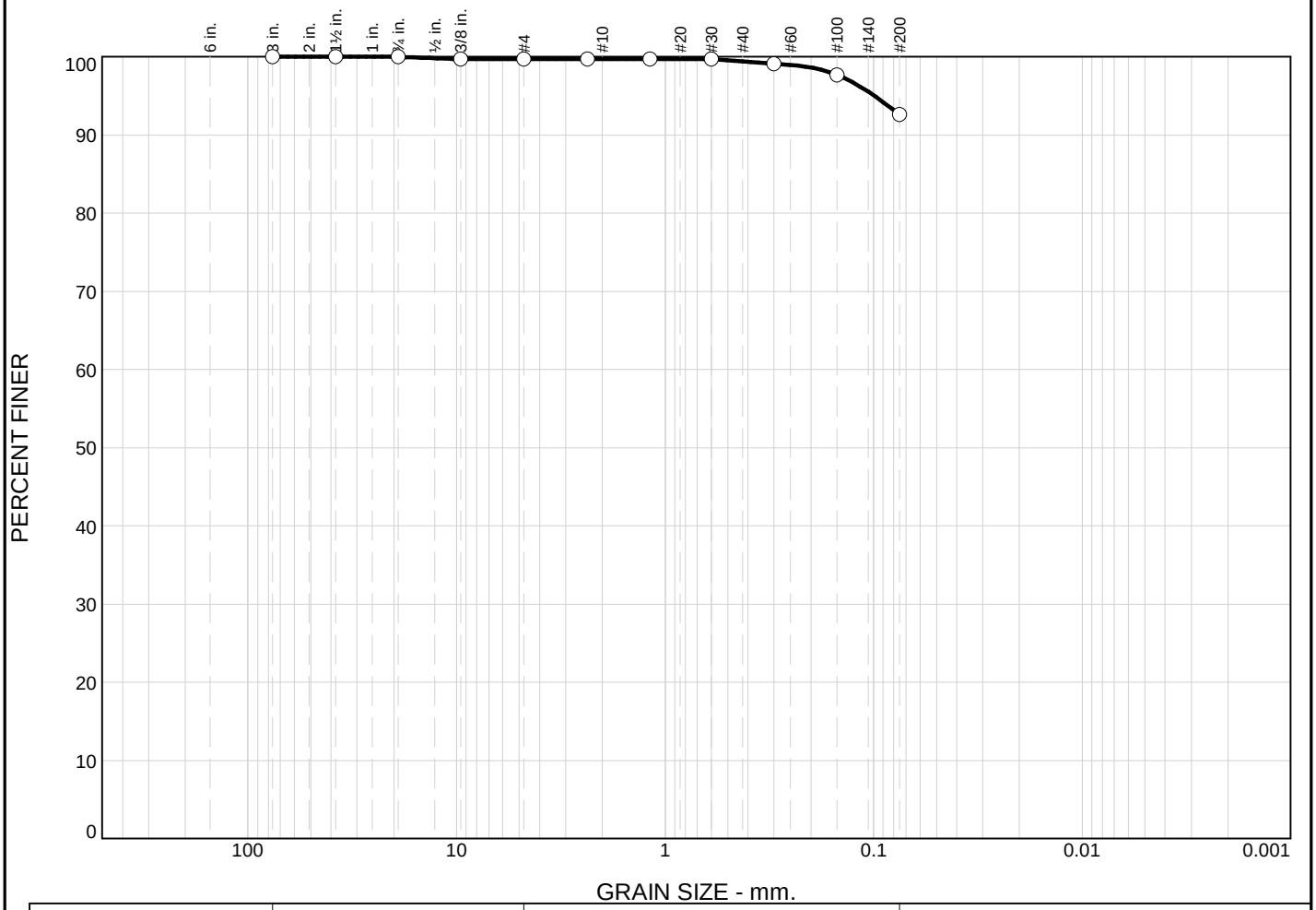
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.4	0.4	2.0	0.0	8.0	10.0			89.6

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.0778	0.1212

Fineness Modulus
0.14

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.3	0.0	0.3	6.7	92.7	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-06 **Sample Number:** 1108A20-006

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-06
Sample Number: 1108A20-006
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.80	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	616.50	616.20	99.7
		#4	551.80	551.80	99.7
		#8	479.40	479.40	99.7
		#16	420.50	420.50	99.7
		#30	413.60	413.60	99.7
		#50	373.00	372.40	99.1
		#100	367.10	365.70	97.7
		#200	339.80	334.70	92.7

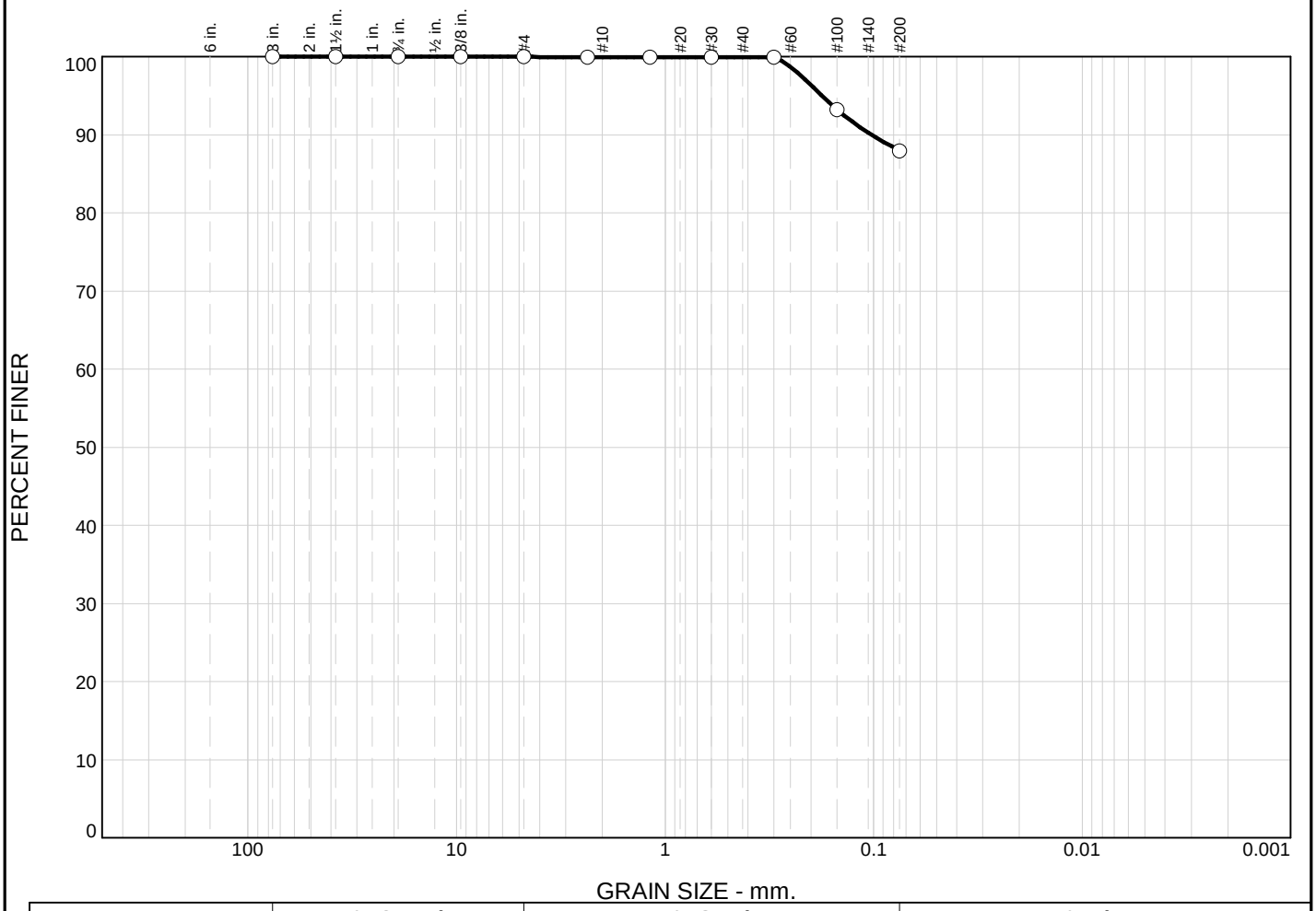
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.3	0.3	0.0	0.3	6.7	7.0			92.7

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
									0.0990

Fineness Modulus
0.05

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.0	12.0	88.0	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-07 **Sample Number:** 1108A20-007

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-07
Sample Number: 1108A20-007
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.60	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	550.60	550.60	100.0
		#4	504.50	504.50	100.0
		#8	504.74	504.70	100.0
		#16	443.40	443.40	100.0
		#30	479.10	479.10	100.0
		#50	382.10	382.10	100.0
		#100	350.90	344.10	93.3
		#200	342.60	337.20	88.0

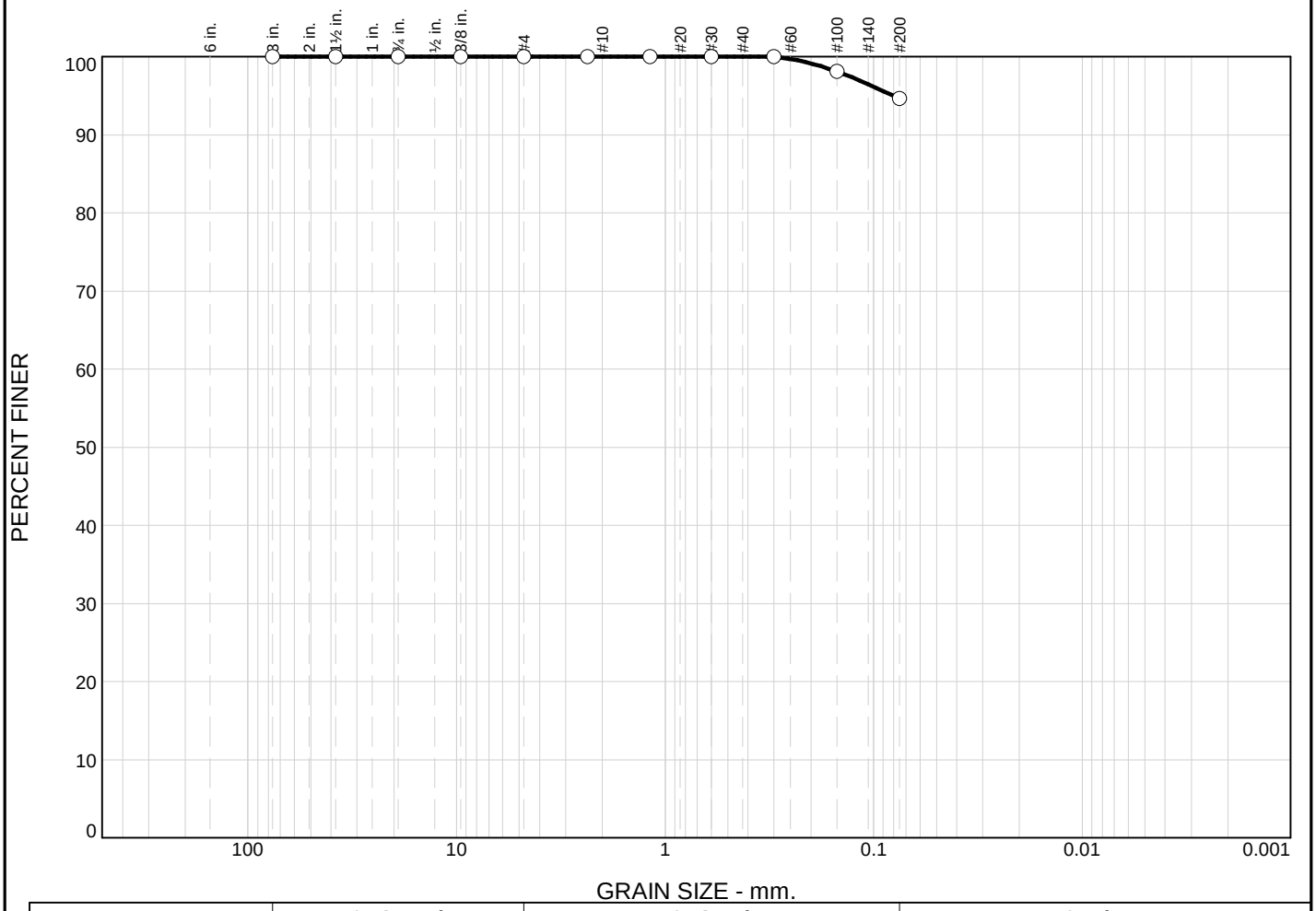
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0			88.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.1019	0.1762

Fineness Modulus
0.07

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.0	5.3	94.7	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-08 **Sample Number:** 1108A20-008

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-08
Sample Number: 1108A20-008
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.00	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	614.60	614.60	100.0
		#4	547.80	547.80	100.0
		#8	479.80	479.80	100.0
		#16	420.00	420.00	100.0
		#30	414.40	414.40	100.0
		#50	375.50	375.50	100.0
		#100	367.30	365.40	98.1
		#200	339.30	335.80	94.7

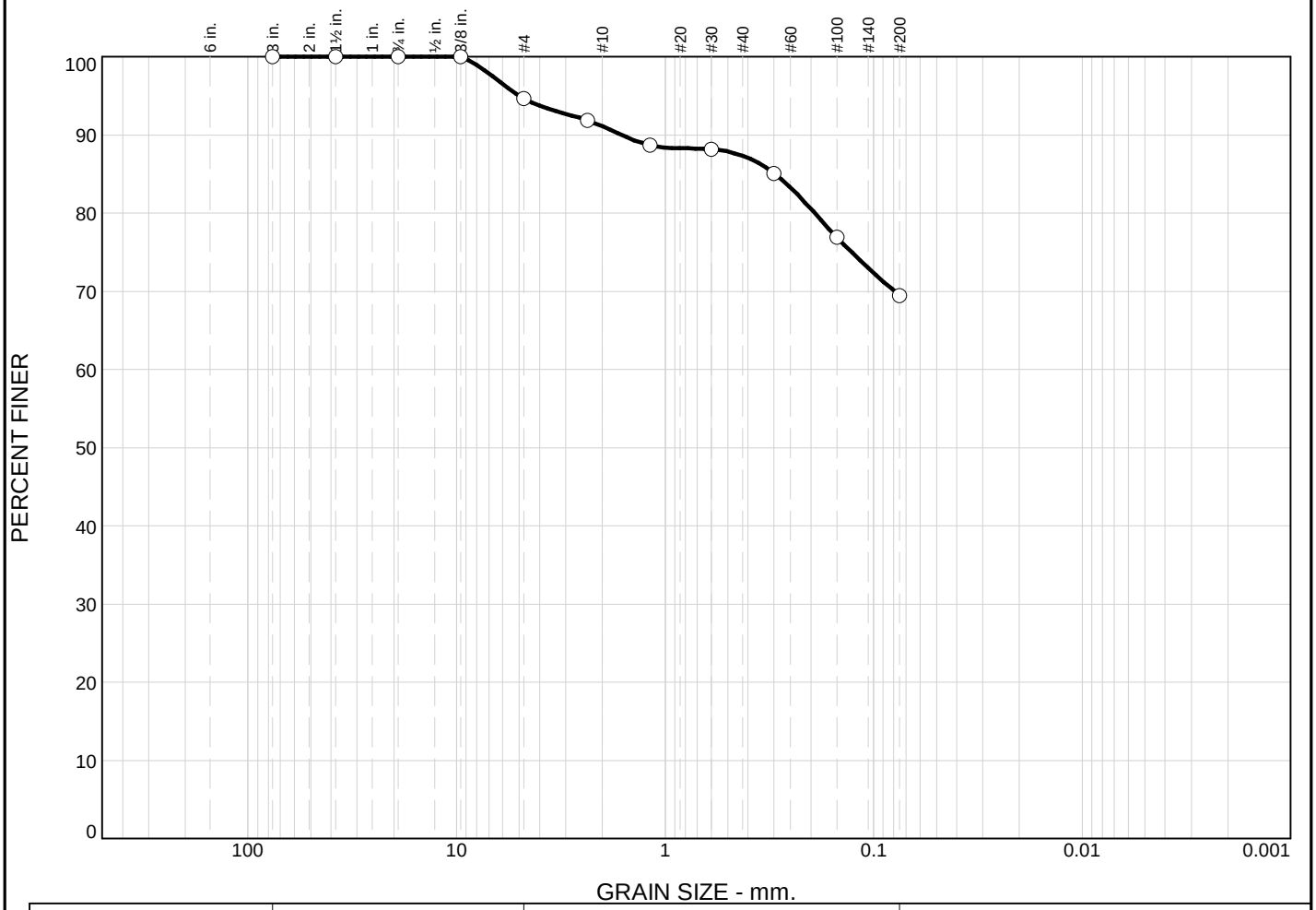
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3			94.7

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
									0.0800

Fineness Modulus
0.02

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	5.3	3.6	3.8	17.8	69.5	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.2965							

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-09 **Sample Number:** 1108A20-009

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-09
Sample Number: 1108A20-009
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	547.70	547.70	100.0
		#4	509.74	504.40	94.7
		#8	505.90	503.10	91.9
		#16	444.20	441.00	88.7
		#30	476.90	476.40	88.2
		#50	384.30	381.20	85.1
		#100	351.10	342.90	76.9
		#200	343.90	336.40	69.5

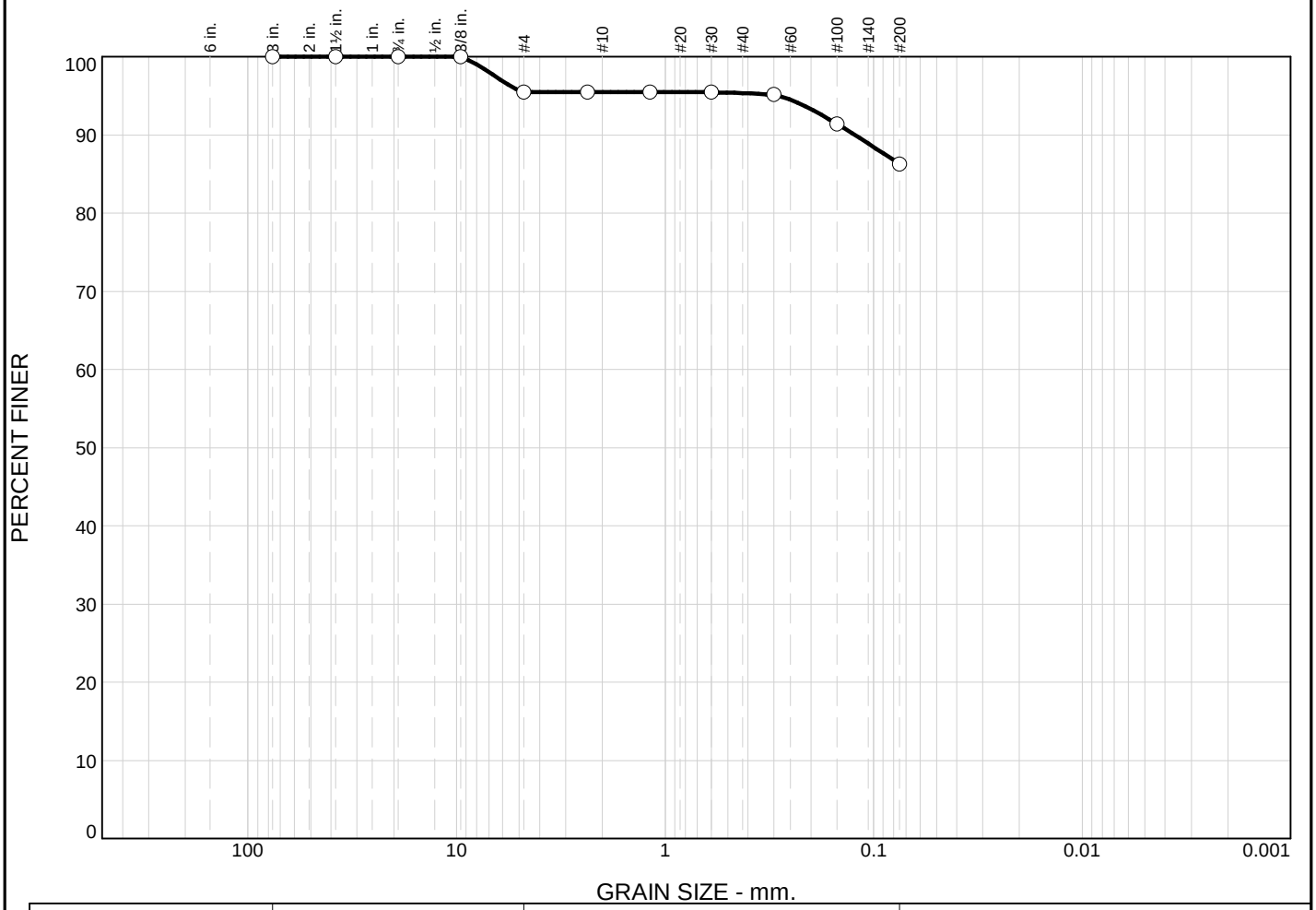
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	5.3	5.3	3.6	3.8	17.8	25.2			69.5

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
						0.1913	0.2965	1.6159	4.9765

Fineness Modulus
0.75

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	4.5	0.0	0.1	9.1	86.3	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-10 **Sample Number:** 1108A20-010

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-10
Sample Number: 1108A20-010
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.50	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	614.90	614.90	100.0
		#4	552.60	548.00	95.5
		#8	479.60	479.60	95.5
		#16	421.20	421.20	95.5
		#30	415.00	415.00	95.5
		#50	374.90	374.60	95.2
		#100	367.50	363.70	91.4
		#200	339.70	334.50	86.3

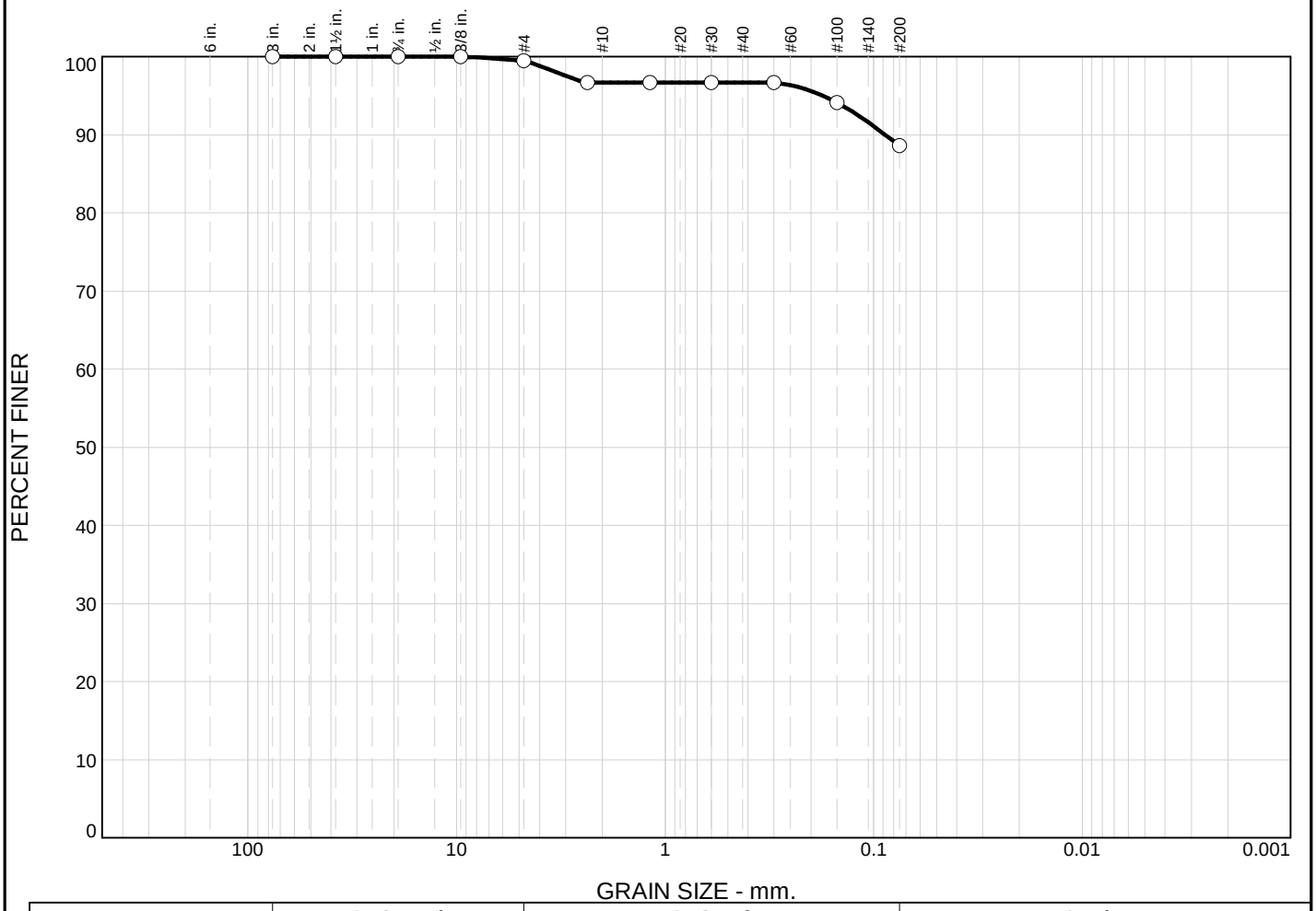
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.5	4.5	0.0	0.1	9.1	9.2			86.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.1229	0.2834

Fineness Modulus
0.32

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.5	2.8	0.0	8.1	88.6	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-11 **Sample Number:** 1108A20-011

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-11
Sample Number: 1108A20-011
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	547.30	547.30	100.0
		#4	504.70	504.20	99.5
		#8	507.80	505.00	96.7
		#16	441.30	441.30	96.7
		#30	476.10	476.10	96.7
		#50	381.40	381.40	96.7
		#100	345.90	343.30	94.1
		#200	344.10	338.60	88.6

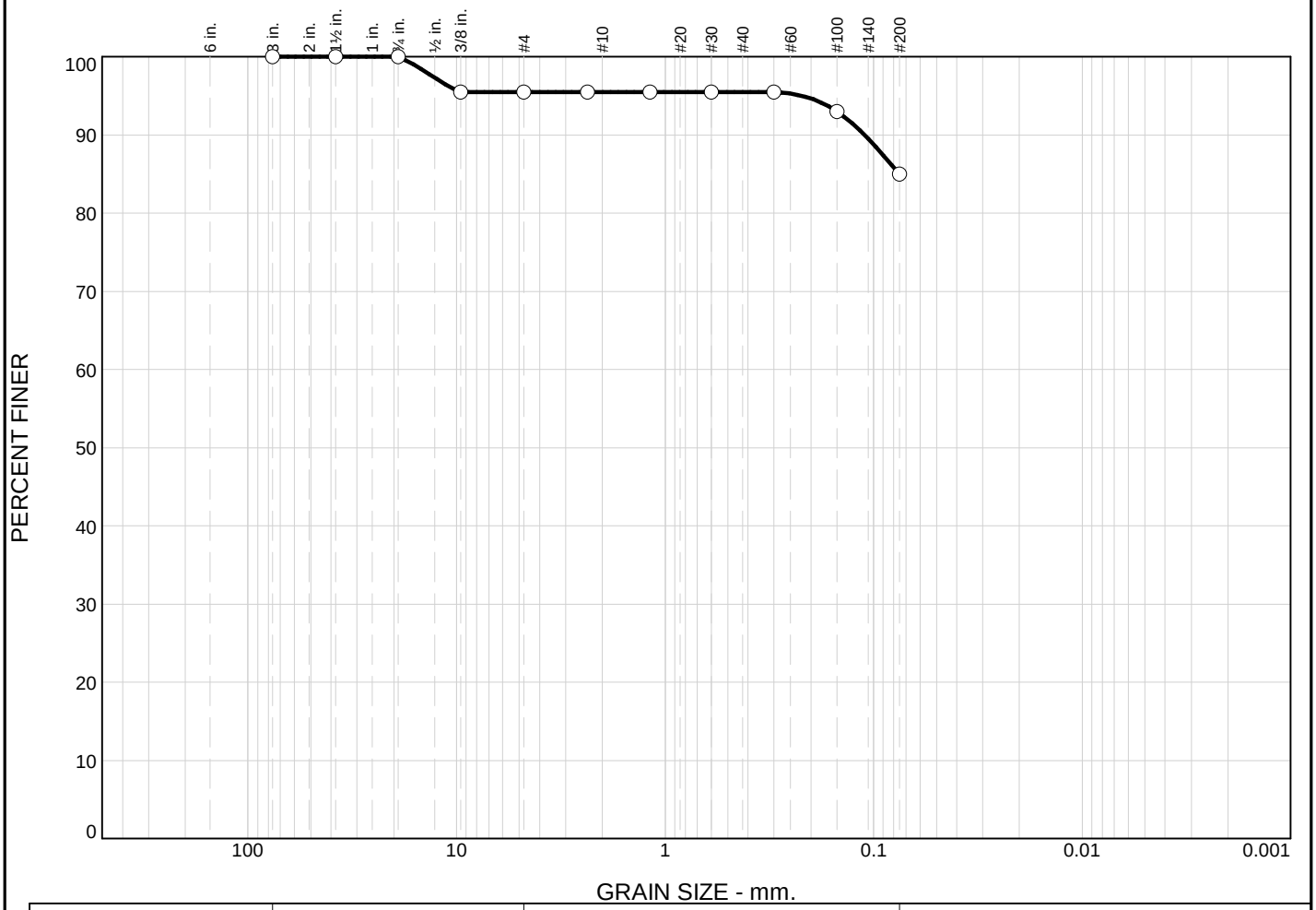
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.5	0.5	2.8	0.0	8.1	10.9			88.6

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.0877	0.1753

Fineness Modulus
0.20

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	4.5	0.0	0.0	10.5	85.0	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.0751							

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-12 **Sample Number:** 1108A20-012

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-12
Sample Number: 1108A20-012
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.50	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	618.10	613.60	95.5
		#4	548.00	548.00	95.5
		#8	477.90	477.90	95.5
		#16	419.60	419.60	95.5
		#30	413.40	413.40	95.5
		#50	375.60	375.60	95.5
		#100	366.70	364.20	93.0
		#200	342.80	334.70	85.0

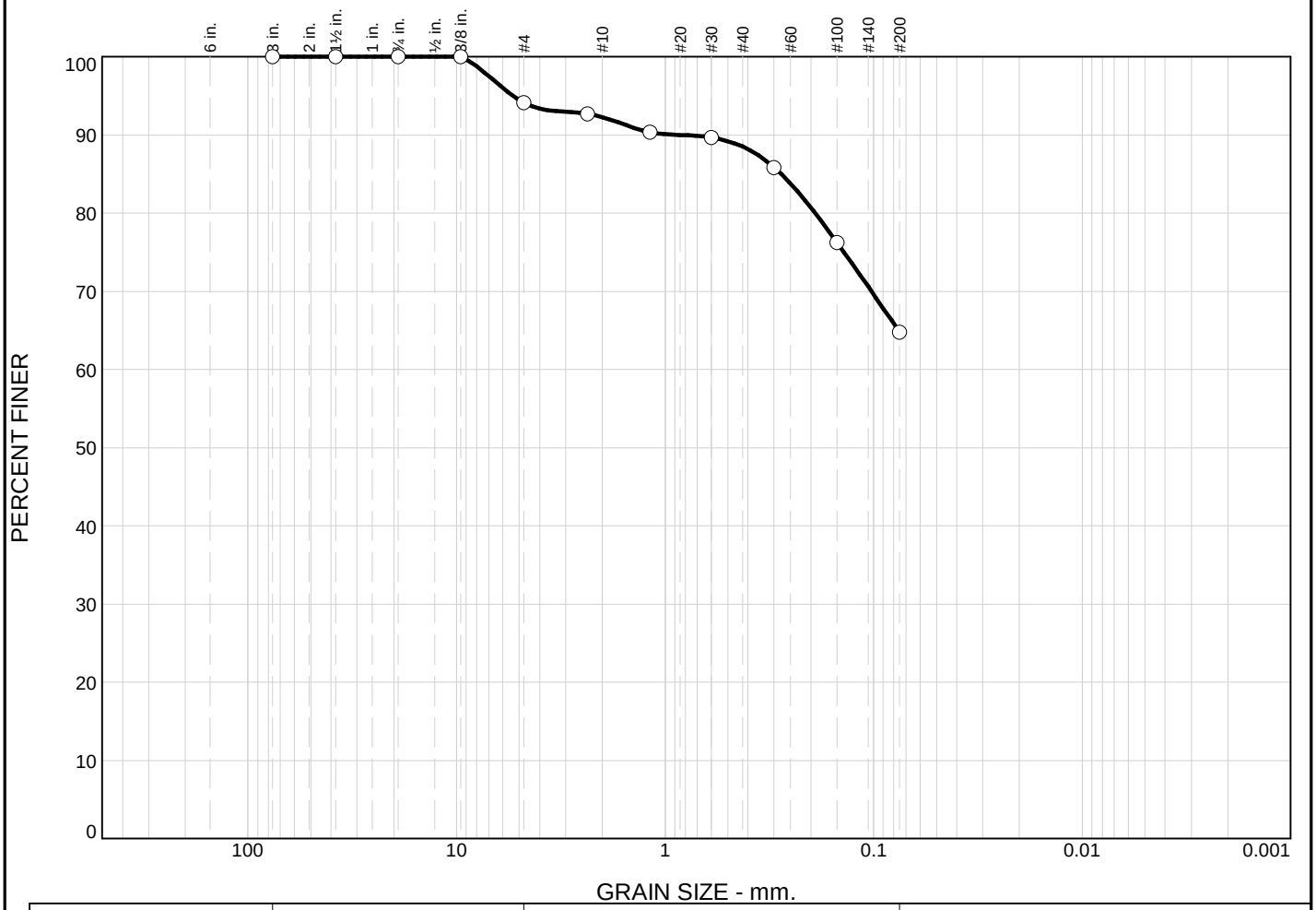
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.5	4.5	0.0	0.0	10.5	10.5			85.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
							0.0751	0.1106	0.2199

Fineness Modulus
0.34

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	5.9	1.8	3.8	23.7	64.8	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.2766							

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-13 **Sample Number:** 1108A20-013

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-13
Sample Number: 1108A20-013
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.90	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	548.00	548.00	100.0
		#4	509.20	503.20	94.1
		#8	505.30	503.90	92.7
		#16	444.60	442.20	90.4
		#30	477.30	476.60	89.7
		#50	384.90	381.00	85.9
		#100	354.70	344.90	76.3
		#200	348.90	337.25	64.8

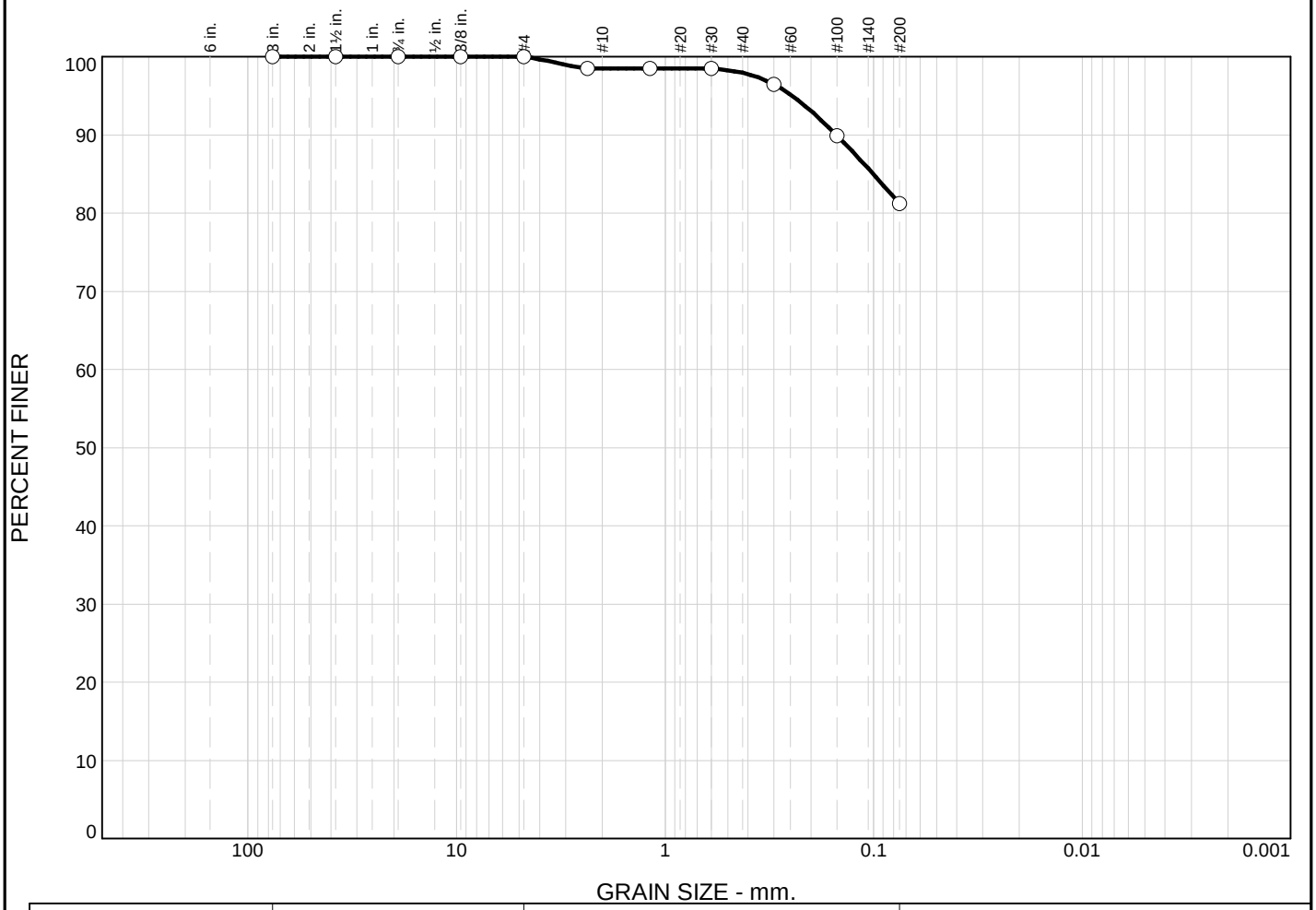
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	5.9	5.9	1.8	3.8	23.7	29.3			64.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
						0.1905	0.2766	0.8596	5.3646

Fineness Modulus
0.71

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	1.5	0.5	16.7	81.3	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.1003							

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-14 **Sample Number:** 1108A20-014

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-14
Sample Number: 1108A20-014
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.40	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	618.00	618.00	100.0
		#4	551.60	551.60	100.0
		#8	479.90	478.40	98.5
		#16	422.50	422.50	98.5
		#30	415.30	415.30	98.5
		#50	375.30	373.20	96.4
		#100	369.60	363.00	89.9
		#200	344.80	336.00	81.3

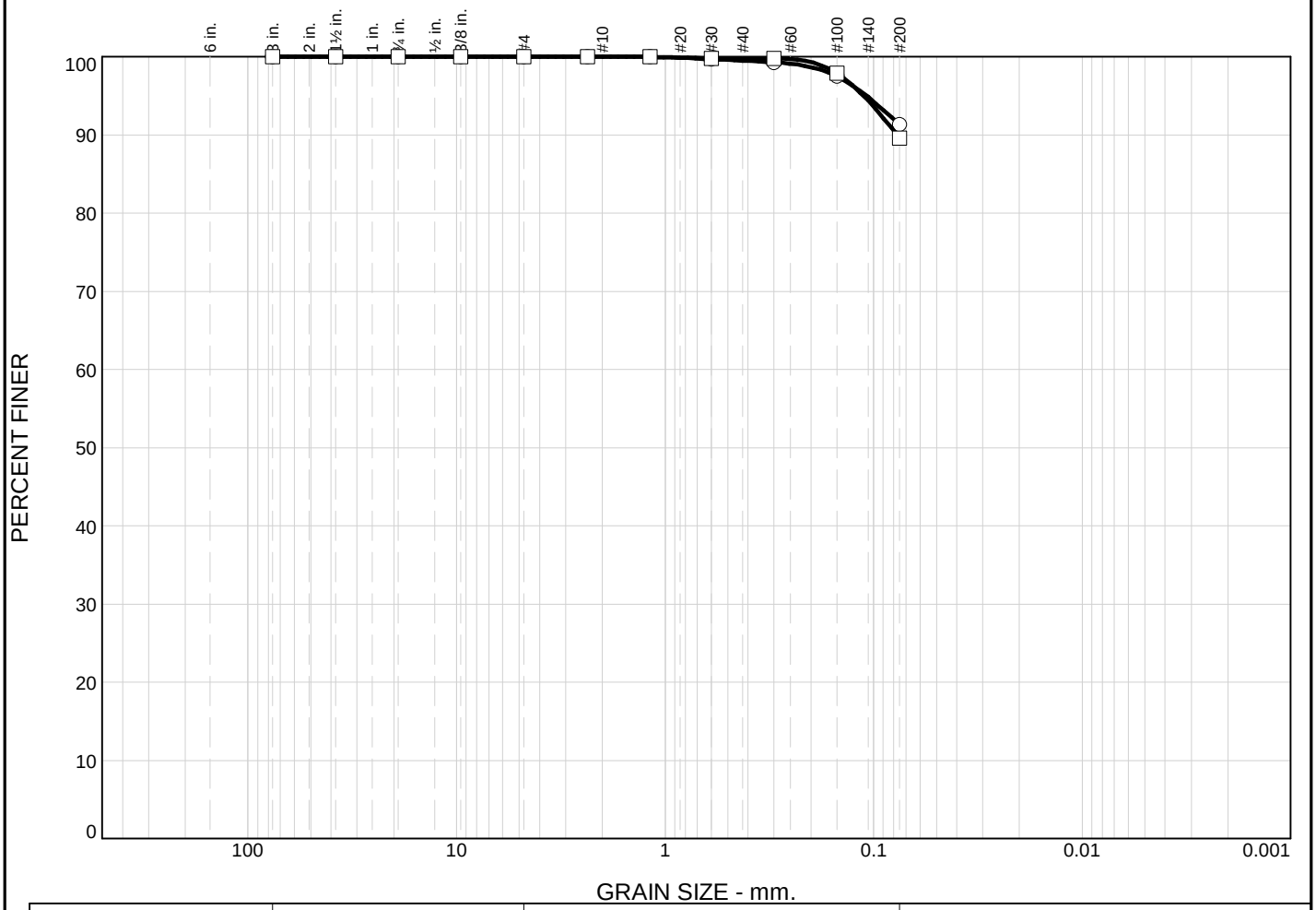
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.5	0.5	16.7	18.7			81.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
							0.1003	0.1508	0.2459

Fineness Modulus
0.18

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.5	8.2	91.3	
□	0.0	0.0	0.0	0.0	0.2	10.2	89.6	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											
□											

	Material Description	USCS	AASHTO
○			
□			

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-15 **Sample Number:** 1108A20-015

□ **Source of Sample:** MW-11-15 **Sample Number:** 1108A20-015 DUP

Date: ○ □

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-15
Sample Number: 1108A20-015
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.40	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	547.50	547.50	100.0
		#4	508.90	508.90	100.0
		#8	504.30	504.30	100.0
		#16	444.00	444.00	100.0
		#30	474.50	474.20	99.7
		#50	380.00	379.60	99.3
		#100	344.90	343.10	97.5
		#200	343.30	337.10	91.3

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.5	8.2	8.7			91.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
									0.1081

Fineness Modulus
0.03

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-15
Sample Number: 1108A20-015 DUP
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.40	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	616.70	616.70	100.0
		#4	549.80	549.80	100.0
		#8	478.70	478.70	100.0
		#16	419.00	419.00	100.0
		#30	413.70	413.50	99.8
		#50	374.70	374.70	99.8
		#100	365.00	363.10	97.9
		#200	342.20	333.90	89.6

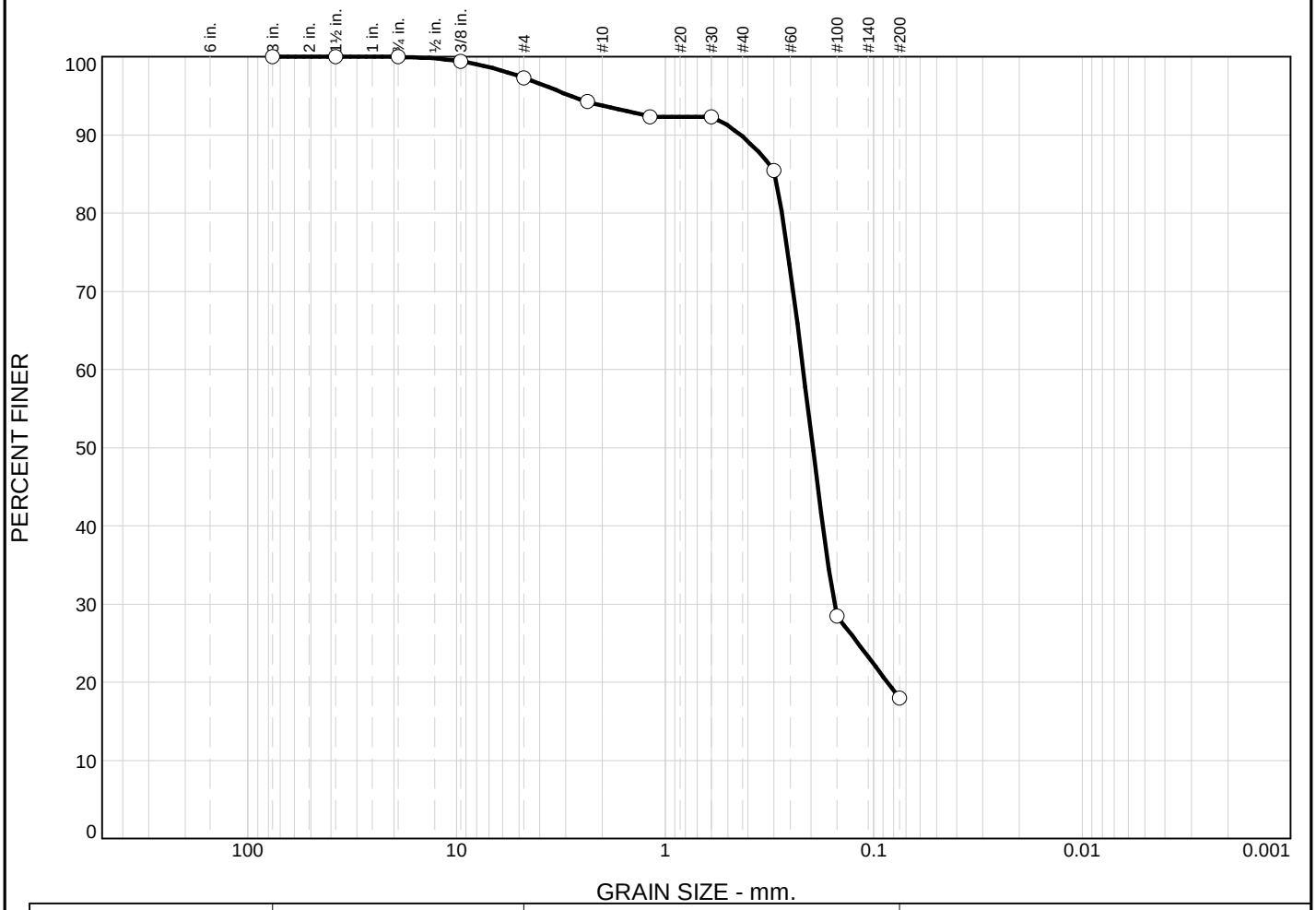
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.2	10.2	10.4			89.6

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.0769	0.1117

Fineness Modulus
0.02

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	2.7	3.5	4.0	71.8	18.0	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				0.2976	0.2180	0.1959	0.1536				

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-16 **Sample Number:** 1108A20-016

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-16
Sample Number: 1108A20-016
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.50	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	550.10	549.50	99.4
		#4	508.40	506.30	97.3
		#8	507.50	504.40	94.3
		#16	443.96	442.00	92.4
		#30	478.30	478.30	92.4
		#50	388.50	381.50	85.5
		#100	401.10	343.30	28.5
		#200	347.40	336.70	18.0

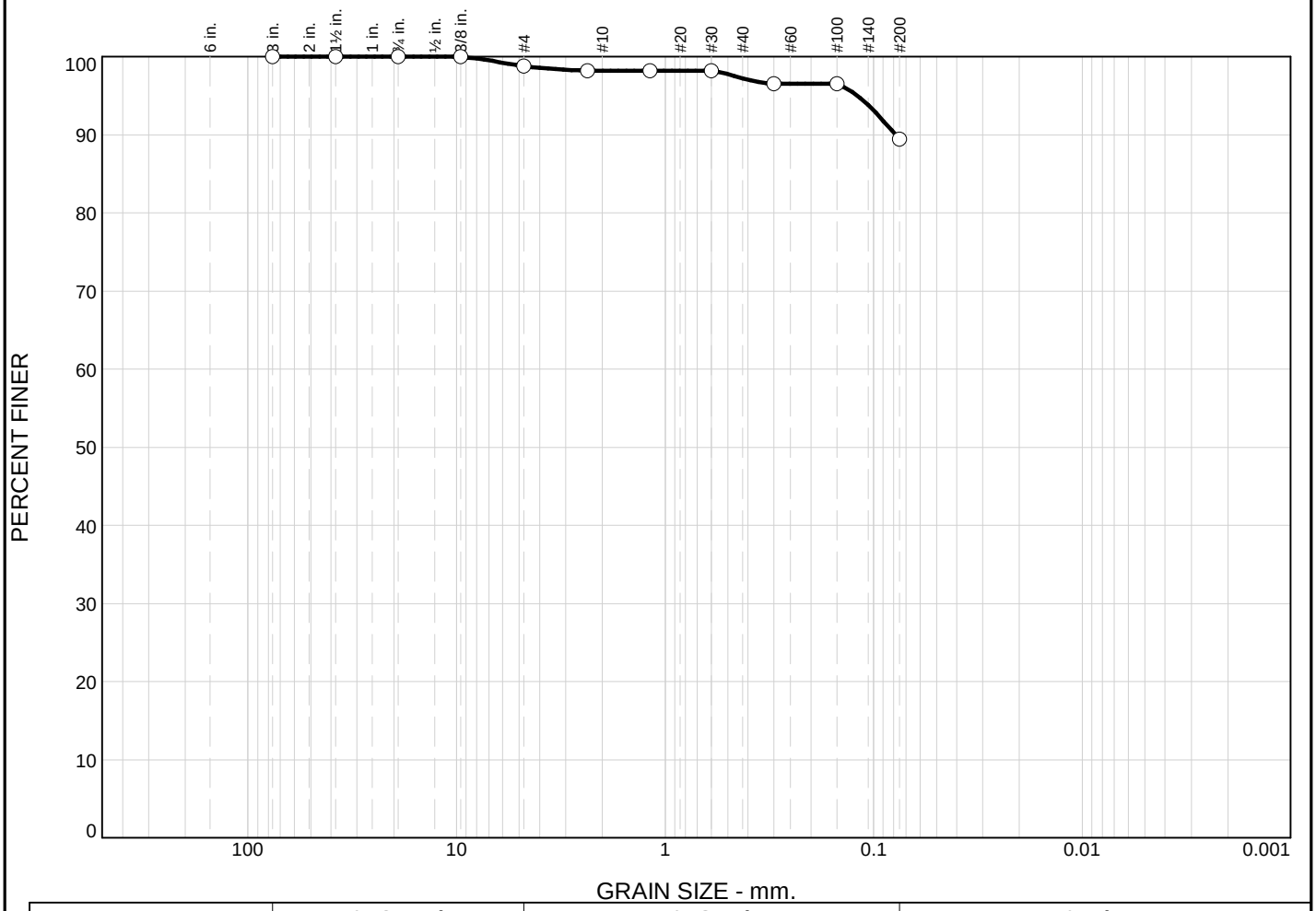
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.7	2.7	3.5	4.0	71.8	79.3			18.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
		0.0857	0.1536	0.1959	0.2180	0.2755	0.2976	0.4340	2.8256

Fineness Modulus
1.10

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	1.2	0.6	0.9	7.8	89.5	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-17 **Sample Number:** 1108A20-017

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-17
Sample Number: 1108A20-017
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
101.60	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	617.00	617.00	100.0
		#4	547.20	546.00	98.8
		#8	379.20	378.60	98.2
		#16	422.60	422.60	98.2
		#30	416.50	416.50	98.2
		#50	376.60	374.90	96.6
		#100	364.80	364.80	96.6
		#200	342.50	335.30	89.5

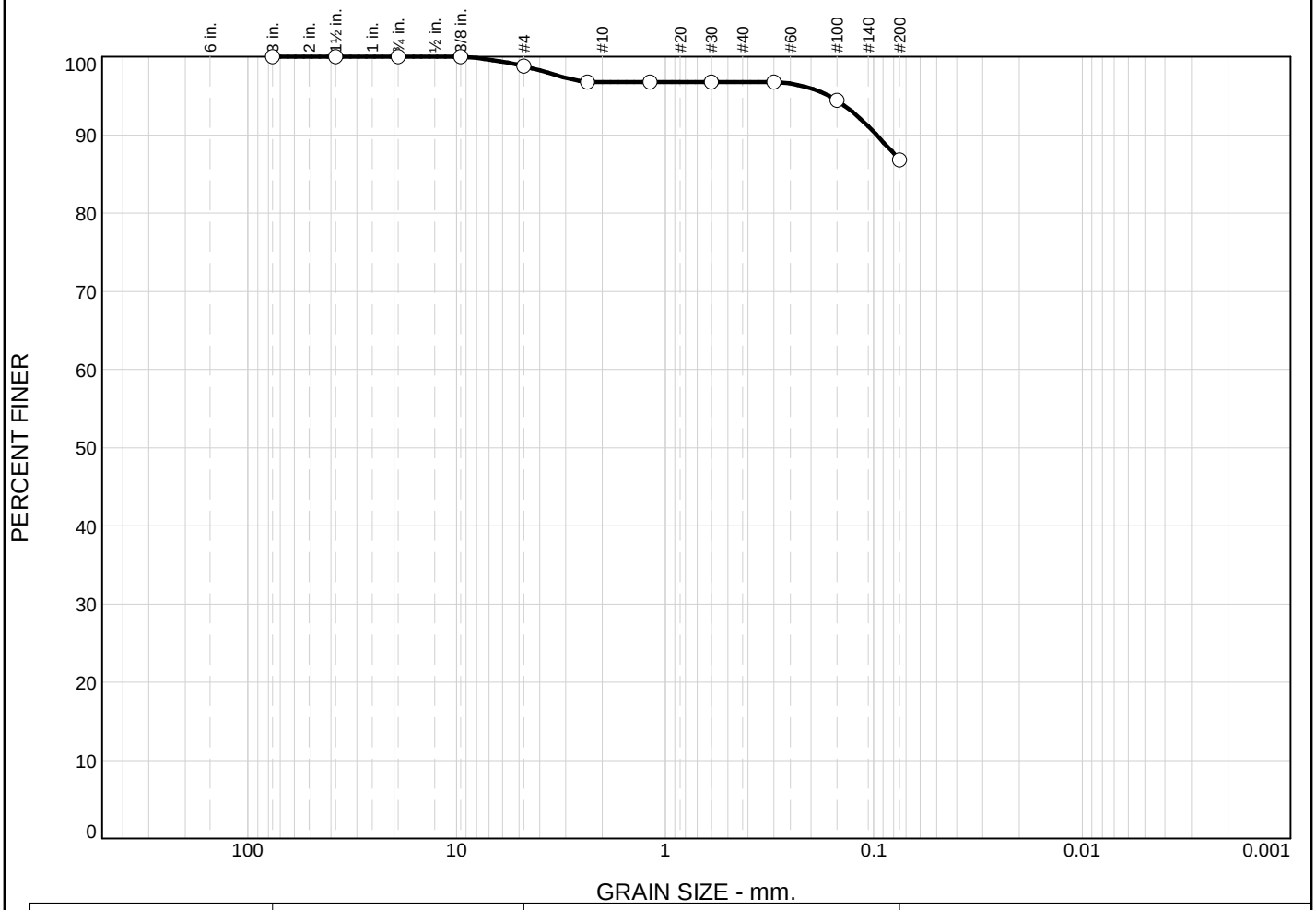
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.2	1.2	0.6	0.9	7.8	9.3			89.5

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.0781	0.1197

Fineness Modulus
0.13

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	1.2	2.0	0.0	10.0	86.8	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-18 **Sample Number:** 1108A20-018

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-18
Sample Number: 1108A20-018
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	549.40	549.40	100.0
		#4	506.10	504.90	98.8
		#8	504.30	502.30	96.8
		#16	441.80	441.80	96.8
		#30	479.30	479.30	96.8
		#50	382.70	382.70	96.8
		#100	345.50	343.10	94.4
		#200	344.00	336.40	86.8

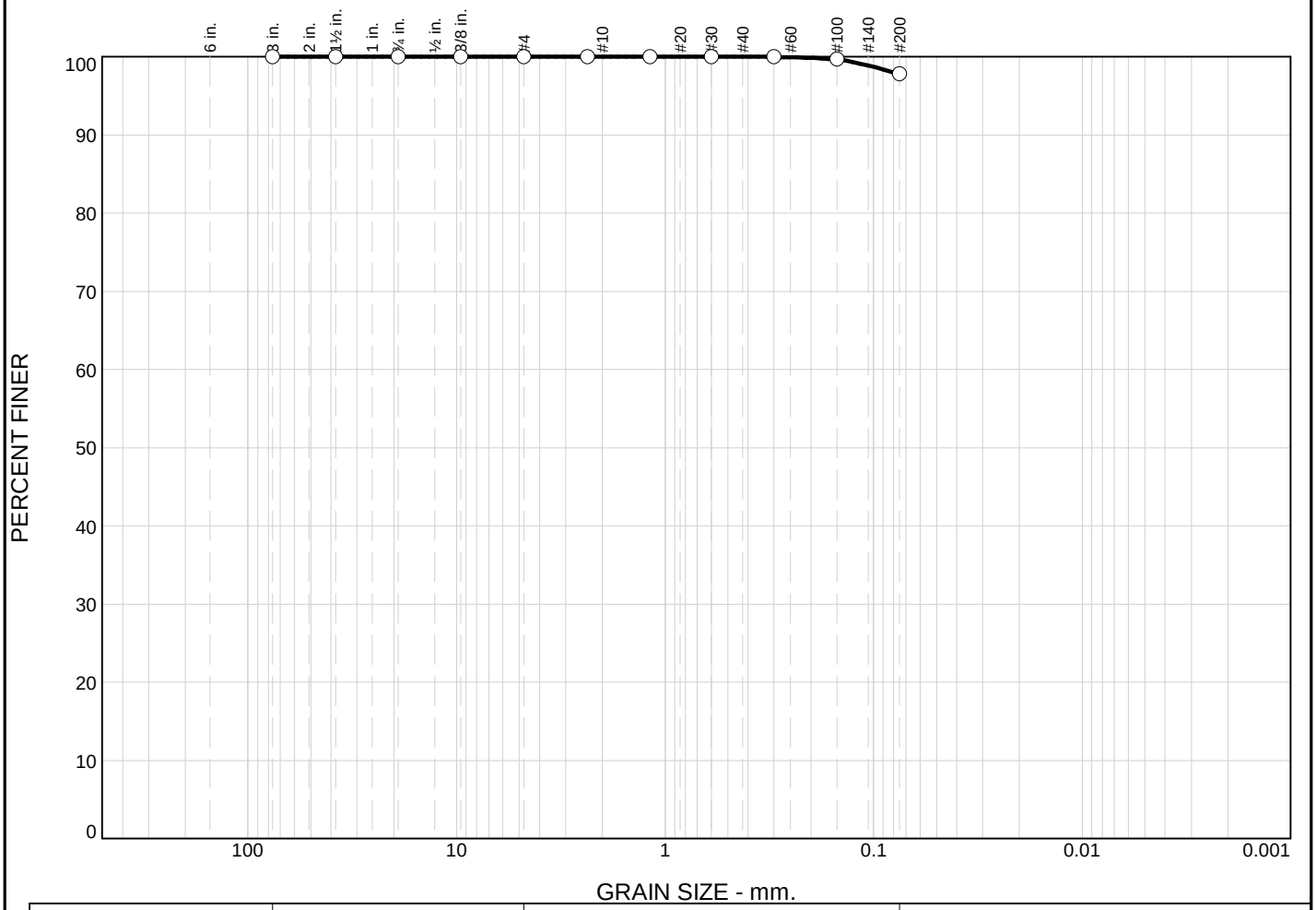
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.2	1.2	2.0	0.0	10.0	12.0			86.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
								0.0967	0.1634

Fineness Modulus
0.20

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.0	2.2	97.8	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-19 **Sample Number:** 1108A20-019

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-19
Sample Number: 1108A20-019
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	615.30	615.30	100.0
		#4	545.20	545.20	100.0
		#8	479.40	479.40	100.0
		#16	419.50	419.50	100.0
		#30	415.20	415.20	100.0
		#50	373.30	373.30	100.0
		#100	363.70	363.40	99.7
		#200	337.00	335.10	97.8

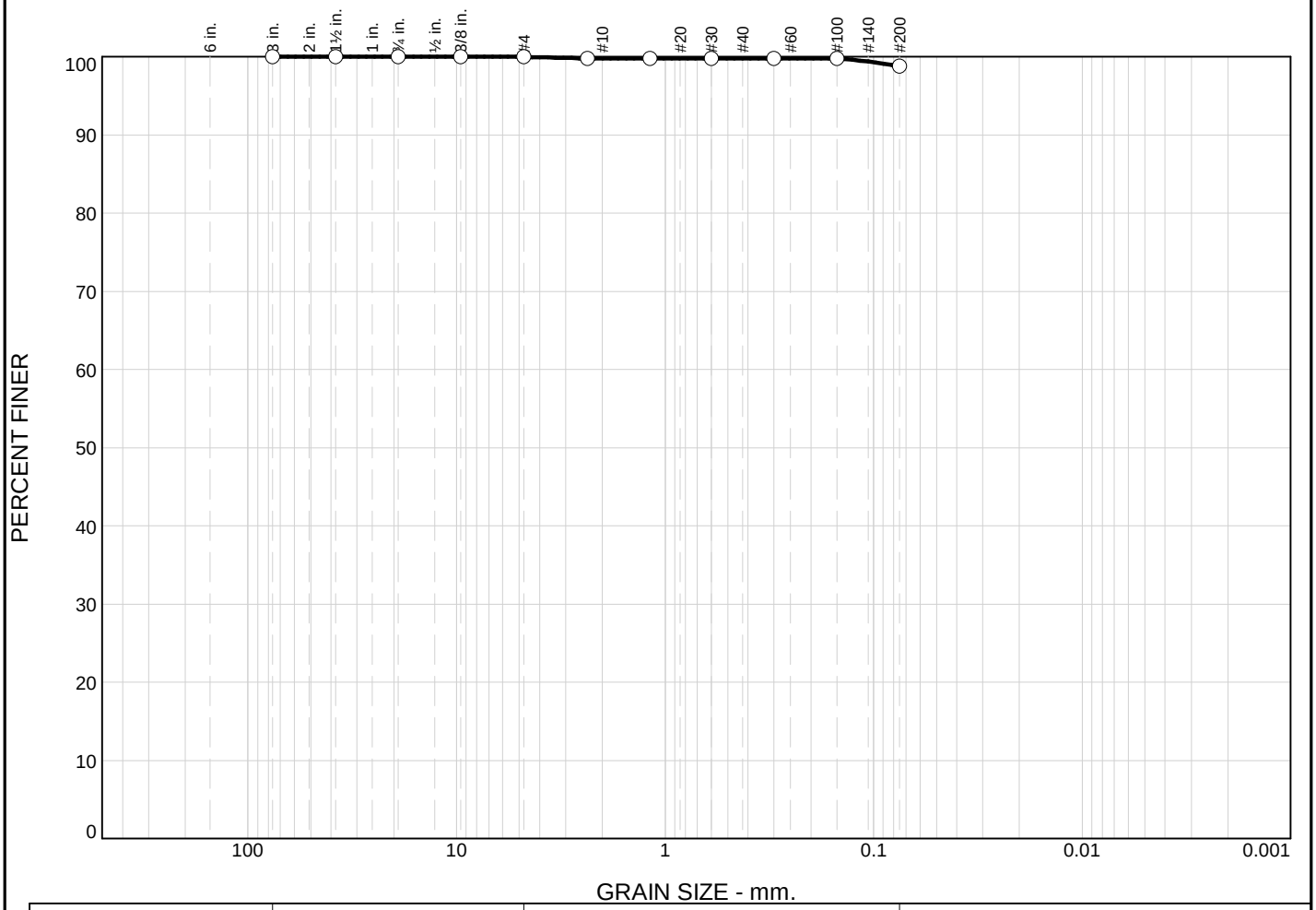
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2			97.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}

Fineness Modulus
0.00

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.2	0.0	1.0	98.8	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-20 **Sample Number:** 1108A20-020

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-20
Sample Number: 1108A20-020
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	549.70	549.70	100.0
		#4	506.00	506.00	100.0
		#8	502.60	502.40	99.8
		#16	441.60	441.60	99.8
		#30	477.00	477.00	99.8
		#50	381.30	381.30	99.8
		#100	343.80	343.80	99.8
		#200	338.70	337.70	98.8

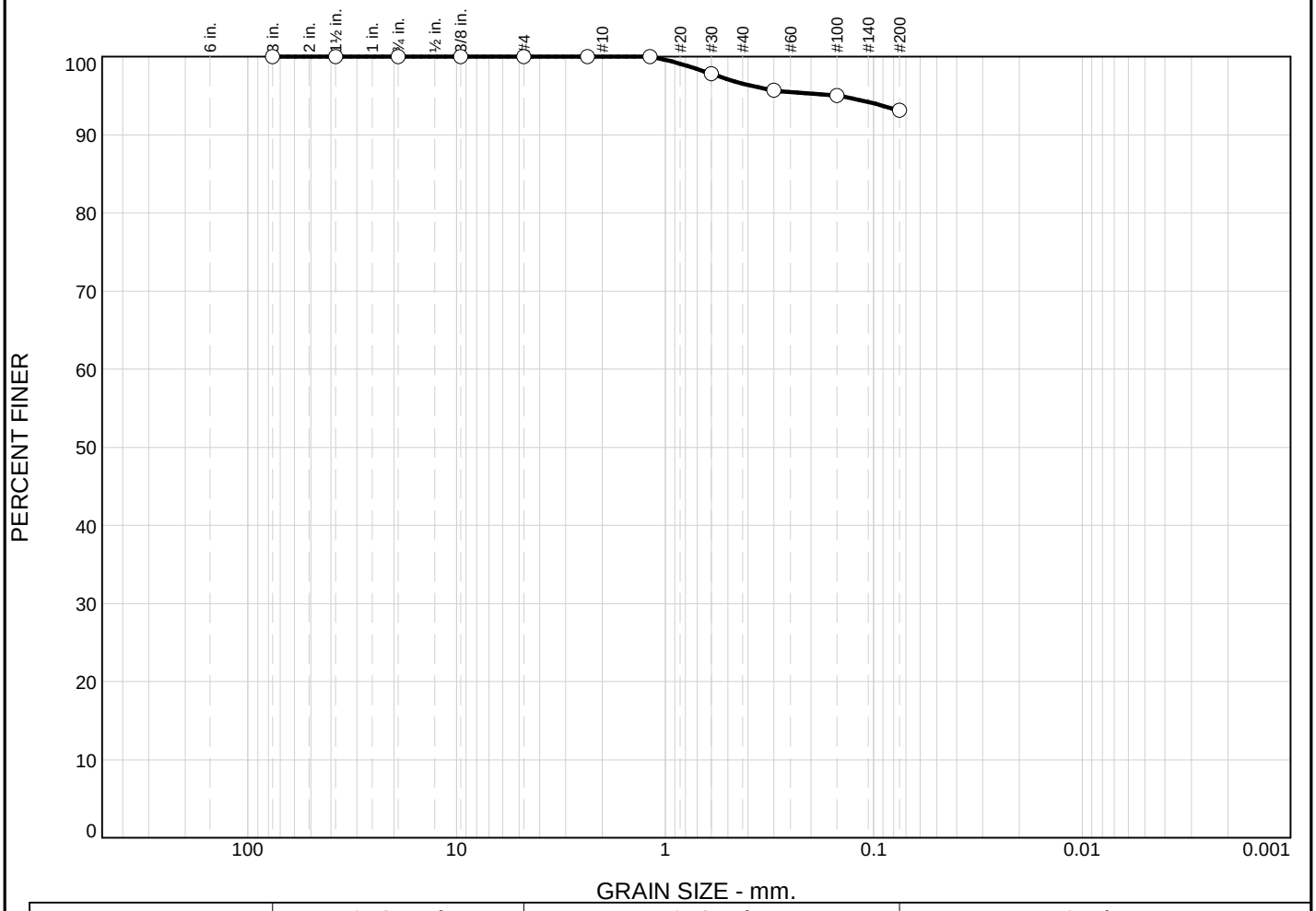
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.2	0.0	1.0	1.2			98.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}

Fineness Modulus
0.01

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	3.4	3.5	93.1	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-21 **Sample Number:** 1108A20-021

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-21
Sample Number: 1108A20-021
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	614.10	614.10	100.0
		#4	547.00	547.00	100.0
		#8	479.50	479.50	100.0
		#16	419.40	419.40	100.0
		#30	416.20	414.00	97.8
		#50	376.90	374.80	95.7
		#100	364.50	363.80	95.0
		#200	336.90	335.00	93.1

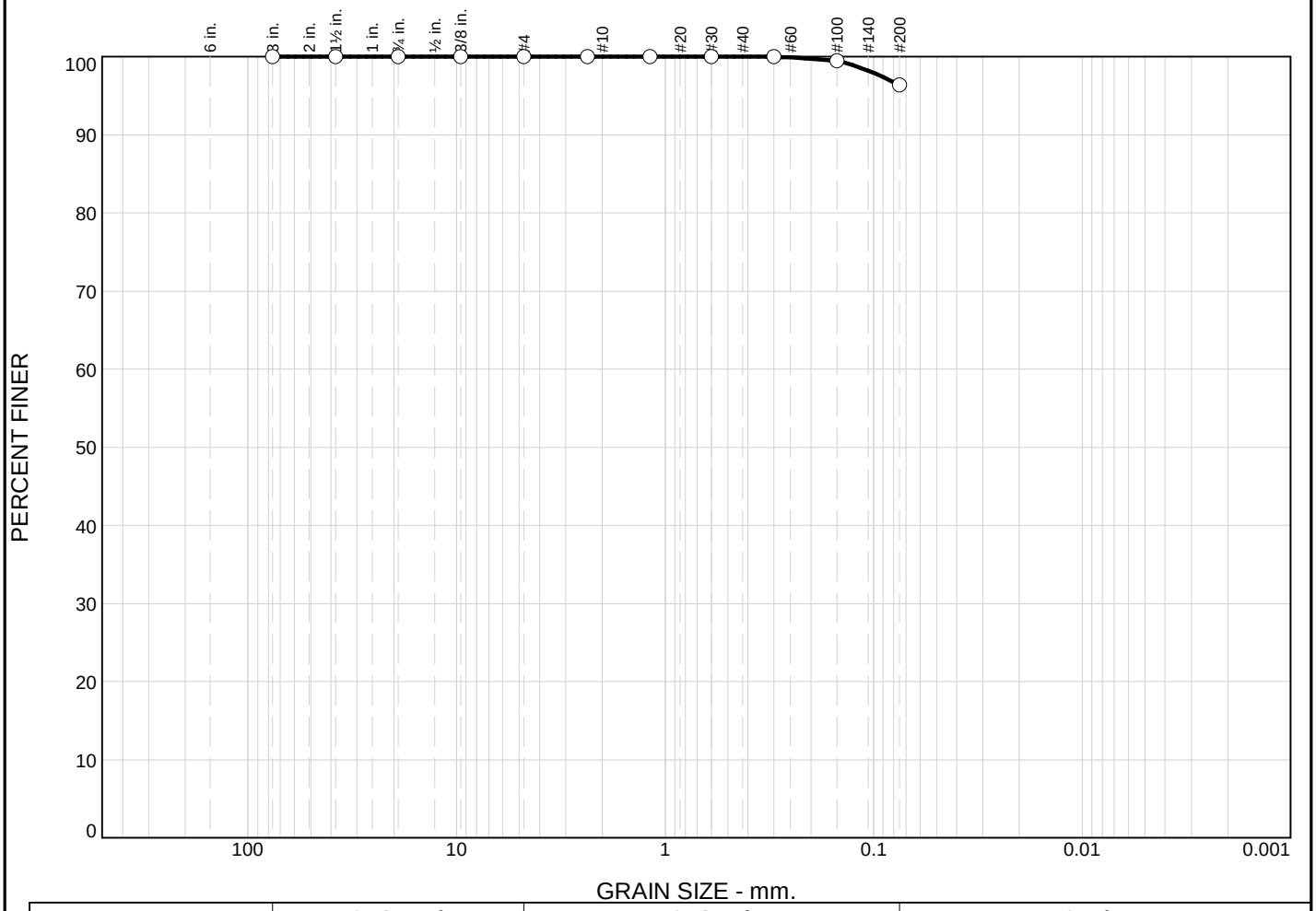
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	3.4	3.5	6.9			93.1

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
									0.1486

Fineness Modulus
0.11

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.0	3.6	96.4	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-22 **Sample Number:** 1108A20-022

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-22
Sample Number: 1108A20-022
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.60	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	549.30	549.30	100.0
		#4	504.90	504.90	100.0
		#8	504.10	504.10	100.0
		#16	442.10	442.10	100.0
		#30	477.90	477.90	100.0
		#50	382.00	382.00	100.0
		#100	344.30	343.80	99.5
		#200	339.70	336.60	96.4

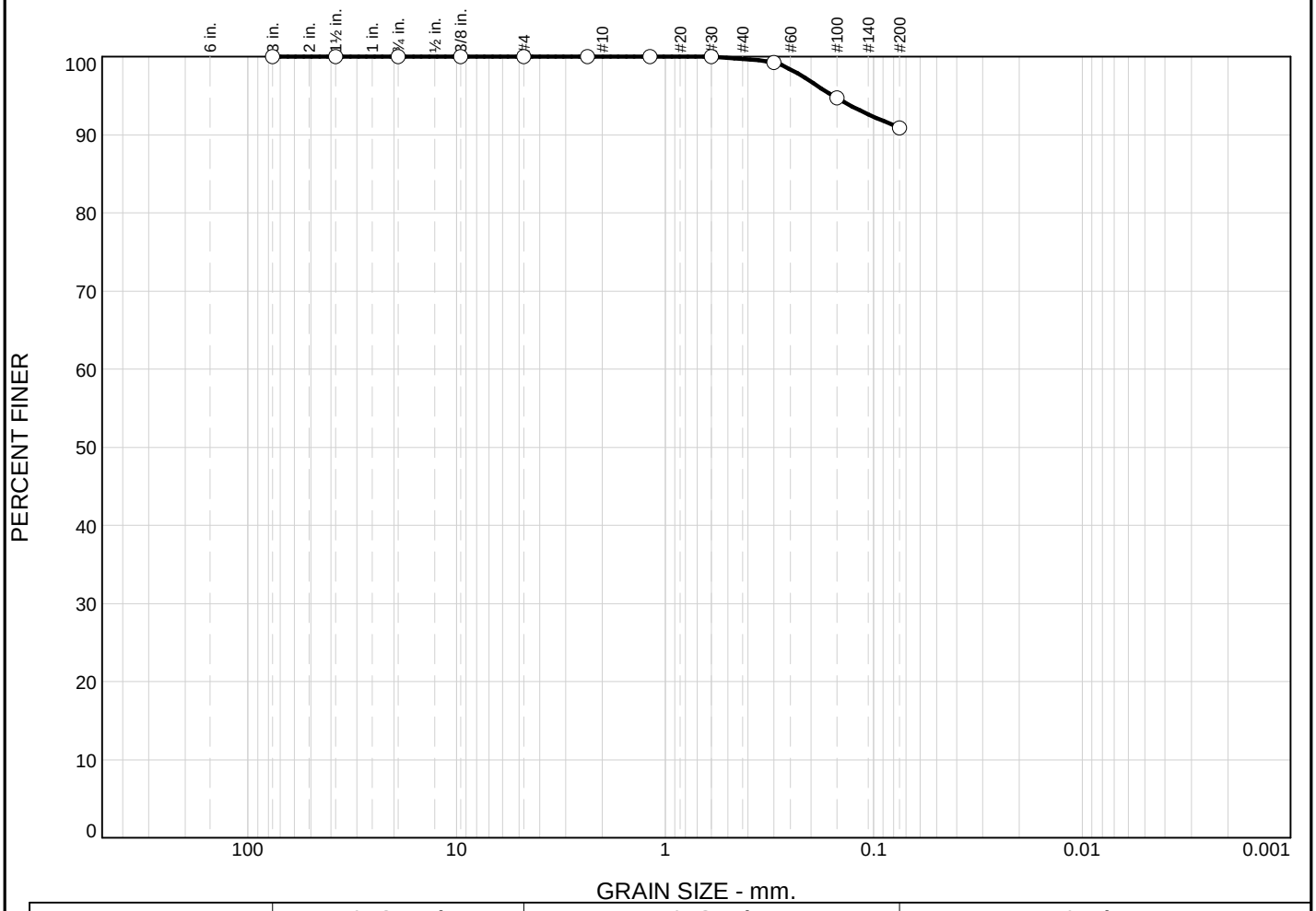
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6			96.4

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}

Fineness Modulus
0.00

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.3	8.8	90.9	

	Colloids	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○											

Material Description	USCS	AASHTO
○		

Project No. **Client:** USACE-Detroit District

Project: Sediment Sampling Milwaukee

○ **Source of Sample:** MW-11-23 **Sample Number:** 1108A20-023

Date: ○

RTI LABORATORIES

Livonia, Michigan

Remarks:

Figure

Tested By: CH **Checked By:** RL

GRAIN SIZE DISTRIBUTION TEST DATA

9/23/2011

Client: USACE-Detroit District
Project: Sediment Sampling Milwaukee
Location: MW-11-23
Sample Number: 1108A20-023
Tested by: CH **Checked by:** RL

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
100.30	0.00	3	1.00	1.00	100.0
		1.5	1.00	1.00	100.0
		0.75	1.00	1.00	100.0
		0.375	617.10	617.10	100.0
		#4	546.80	546.80	100.0
		#8	479.20	479.20	100.0
		#16	420.20	420.20	100.0
		#30	415.20	415.20	100.0
		#50	374.60	373.90	99.3
		#100	369.40	364.80	94.7
		#200	339.50	335.70	90.9

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.3	8.8	9.1			90.9

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
									0.1562

Fineness Modulus
0.06