

**SEDIMENT ASSESSMENT REPORT
LOWER MAUMEE RIVER
MAUMEE RIVER AREA OF CONCERN
TOLEDO, LUCAS COUNTY, OHIO**

Prepared for

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ACRONYMS AND ABBREVIATIONS

%	Percent
µg/kg	Microgram per kilogram
ADR	Automated Data Review
AOC	Area of Concern
ATSDR	Agency for Toxic Substances and Disease Registry
bss	Below sediment surface
BUI	Beneficial use impairment
cfs	Cubic foot per second
CLP	Contract Laboratory Program
COPC	Contaminant of potential concern
CSO	Combined sewer overflow
ESL	Ecological Screening Level
EXES	Exchange and Evaluation System
GLLA	Great Lakes Legacy Act
GLNPO	Great Lakes National Program Office
mg/kg	Milligram per kilogram
NFG	National Functional Guideline
Ohio EPA	Ohio Environmental Protection Agency
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PEC	Probable Effect Concentration
QA	Quality assurance
QC	Quality control
QAPP	Quality Assurance Project Plan
RAP	Remedial Action Plan
R/V	research vessel
RPD	relative percent difference
Shaw	Shaw Environmental and Infrastructure Inc.,
SMO	Sample Management Office
SOP	Standard Operating Procedure
SRV	Sediment Reference Value
START	Superfund Technical Assistance and Response Team
SVOC	Semivolatile organic compound
TAL	Target Analyte List
TCL	Target Compound List
TDD	Technical Direction Document
TOC	Total organic carbon
U.S. EPA	United States Environmental Protection Agency
VSP	Visual Sampling Plan
WESTON	Weston Solutions, Inc.

EXECUTIVE SUMMARY

Weston Solutions, Inc. (WESTON[®]) has prepared this Sediment Assessment Report to summarize site characterization activities conducted for the Lower Maumee River project area in Toledo, Lucas County, Ohio as part of the Maumee River Area of Concern (AOC) United States Environmental Protection Agency (U.S. EPA) Great Lakes National Program Office (GLNPO) Great Lakes Legacy Act (GLLA) Project. The purpose of the GLLA project is to further define chemical contaminants in sediment, locate contaminated areas for additional evaluation, delineate hotspots, and attempt to identify any ongoing sources. The objective of this site characterization was to collect samples for chemical and physical properties analysis needed to support project area assessment and potential remediation activities.

When the Maumee River AOC was designated, it was primarily due to the large problem of agricultural runoff. However, upon further investigation, more problems were discovered, including former dumps and contaminated industrial sites, combined sewer overflows (CSO), and disposal of dredged materials. The biological communities in the Lower Maumee River have been identified as impaired. The land surrounding the Lower Maumee River project area is primarily industrial and commercial, with both current and historical sources of contamination. These sources of contaminants include various industries, chemical plants, petroleum production, and wastewater outfalls. The “Maumee Area of Concern Stage 2 Watershed Restoration Plan” dated 2006 indicated elevated concentrations of polychlorinated biphenyls (PCB), polycyclic aromatic hydrocarbons (PAH), and heavy metals in surface sediment in the Lower Maumee River project area.

The Lower Maumee River project area extends 5 river miles and is bound on the downstream edge by the Interstate 280 bridge (Veterans’ Glass City Skyway) and on the upstream edge just downstream of Walbridge Park in Toledo, Ohio. During the site characterization, a total of 337 sediment samples (including 303 investigative, 17 field split, and 17 duplicate samples) were collected from 84 sampling locations in the Lower Maumee River project area. The sample design was based on detecting “hot spots” (local areas of elevated concentration) with a 646-foot-radius and a 95% confidence probability.

Where sediment recovery was adequate, samples typically were collected from the following intervals: 0 to 6, 6 to 24, 24 to 48, 48 to 72, 72 to 96, 96 to 120, 120 to 144, and 144 to 168 inches below sediment surface (bss). Sediment volume was not expected to be adequate to allow collection of a sediment core at sampling locations near the center of the river upstream of Interstate 75. Therefore, only a surface sample from 0 to 6 inches bss was planned for collection using a ponar device at these locations. However, during site characterization activities, adequate core recovery was unexpectedly achieved at several locations near the center of the river upstream of Interstate 75. Samples were collected using a ponar device at many of these locations, and then the sampling team returned to several locations to collect a sediment core on a later date. Sediment cores were collected to depth of refusal or until native material was encountered. Sediment cores typically were collected using the GLNPO research vessel (R/V) Mudpuppy II. However, due to equipment problems with the Mudpuppy II, some sediment samples were collected using a vibracore device mounted to a pontoon boat.

All sediment samples were analyzed for the contaminants of potential concern (COPC): Target Analyte List (TAL) metals (including mercury) and semivolatile organic compounds (SVOC). In addition, approximately 10 percent (%) of all sediment samples collected were analyzed for Target Compound List (TCL) pesticides and PCB Aroclors. All sediment samples also were analyzed for physical properties, including % moisture, total organic carbon (TOC), and grain size.

The sample results for SVOCs, metals, PCBs, and pesticides were compared to Probable Effect Concentrations (PEC) set forth in the document "Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems" (by D.D. MacDonald, et. al., dated 2000). The metals results were also compared to Ohio-specific Sediment Reference Values (SRV) set forth in the "Ohio Ecological Risk Assessment Guidance Document" dated February 2003, revised April 2008. Ecological Screening Levels (ESL) for sediment as set forth in U.S. EPA Region 5's "Ecological Screening Levels" dated 2003 were presented as a secondary source of screening criteria for SVOCs, metals, PCBs, and pesticides that do not have a developed PEC.

The PECs and ESLs provide screening criteria to evaluate sediment chemistry data. PECs are defined as concentrations above which adverse effects are expected to occur and are the primary screening criteria for this characterization project. The ESLs represent a protective benchmark (for example, water quality criteria, sediment quality guidelines and criteria, and chronic no adverse effect levels) and are the secondary screening criteria. The Ohio-specific SRVs were developed to identify representative background sediment concentrations for lotic (flowing) water bodies.

The paragraphs below summarize the comparison of the analytical data to the screening levels, when available, for SVOCs, TAL metals, PCBs, and TCL pesticides.

SVOCs

Total PAH 17 and several individual PAHs (anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene) were detected at concentrations exceeding PECs.

Anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, phenanthrene, and pyrene exceeded their respective PECs in the sample collected from location LMR11-14 from 0 to 6 inches bss. The calculated total PAH 17 concentration for sample LMR11-14-006 was 92,474.2 micrograms per kilogram ($\mu\text{g}/\text{kg}$), which exceeds the total PAH PEC of 22,800 $\mu\text{g}/\text{kg}$. LMR11-14 is near Corbutt Island in the upstream portion of the project area. Concentrations of PAHs exceeding PECs were detected only in the upper 6 inches of sediment at LMR11-14, which may be attributable to sediment deposited from upstream areas. The downstream side of Corbutt Island, where LMR11-14 is located, is a depositional zone for sediments. Sediment samples collected from deeper intervals at LMR11-14 did not contain PAHs at concentrations exceeding PECs. The 0 to 6 inch bss sample at LMR11-14 consisted primarily of sand (greater than 75%) whereas deeper samples at LMR11-14 consisted of higher percentages of silt and clay.

Anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene exceeded their respective PECs in the sample collected from LMR11-

69 from 0 to 6 inches bss. The calculated total PAH 17 concentration for sample LMR11-69-006 was 297,600 µg/kg, which exceeds the total PAH PEC of 22,800 µg/kg. Sediment recovery was poor at location LMR11-69 so deeper samples were not collected from this location. Therefore, the vertical extent of PAHs at concentrations exceeding the PECs is not defined. LMR11-69 was located near the mouth where Swan Creek discharges into the Maumee River. Elevated concentrations of PAHs have been detected in Swan Creek. The 0 to 6 inch bss sample at LMR11-69 consisted primarily of sand (greater than 75%).

Naphthalene and phenanthrene were detected at concentrations exceeding their PECs at sample location LMR11-50 at a depth of 72 to 96 inches bss. LMR11-50 was located near a CSO, which may be the source of PAHs detected in this area of the river.

TAL METALS

Metals exceeding PECs were noted throughout the investigation area, mostly in samples collected closer to the shores. The following TAL metals were detected at concentrations exceeding their respective PECs in at least one sample: arsenic, cadmium, chromium, lead, mercury, and zinc. The maximum concentration of lead in sediment, 419 milligrams per kilogram (mg/kg), was detected in a sample collected from location LMR11-69 from 0 to 6 inches bss. Elevated concentrations of PAHs also were detected in this sample which is located near the mouth of Swan Creek. High concentrations of lead also were detected in samples collected from LMR11-63 and LMR11-64 near the Clayton Street/Woodville Road bridge (Anthony Wayne High Level Bridge).

The maximum concentration of mercury in sediment, 5.6 mg/kg, was detected in a sample collected from LMR11-72 from 0 to 6 inches bss. A petroleum odor and a blue sheen on the water were noticed as the core at LMR11-72 was recovered. Sampling location LMR11-72 was placed at a historic sampling location previously identified as MAUMEE R AT PORTSIDE DOCKS, where elevated metals concentrations have been detected.

Sample location LMR11-72 is directly downstream from sample location LMR11-69 which also showed elevated concentrations of metals.

PCBs

PCBs were not identified as a contaminant of concern for this site. While a subset of sediment samples were analyzed for PCBs, they were not detected in any sediment samples collected during site characterization activities.

TCL PESTICIDES

Detected concentrations of pesticides did not exceed their respective PECs in any samples collected during site characterization activities.

1. INTRODUCTION

Weston Solutions, Inc. (WESTON®), has prepared this Sediment Assessment Report to summarize site characterization activities conducted for the Lower Maumee River project area in Toledo, Lucas County, Ohio (**Figure 1-1**). WESTON prepared the Sediment Assessment Report in response to a request from the United States Environmental Protection Agency (U.S. EPA) Great Lakes National Program Office (GLNPO) under Superfund Technical Assessment and Response Team (START) III Contract No. EP-S5-06-04, Technical Direction Document (TDD) No. S05-0008-1103-006. The site characterization activities were conducted as part of the Maumee River Area of Concern (AOC) Great Lakes Legacy Act (GLLA) project. The purpose of the GLLA project is to define chemical contaminants in sediment, locate contaminated areas for additional evaluation, delineate hotspots, and attempt to identify any ongoing sources. The data collection activities were conducted in accordance with WESTON's approved Quality Assurance Project Plan (QAPP) dated July 2011.

The sections below discuss the report organization, site description, site background and history, possible sources of contamination, the purpose of the study and project objectives, and contaminants of potential concern (COPC) and target analytes.

1.1 REPORT ORGANIZATION

This Sediment Assessment Report is organized as follows:

- Section 1 – Introduction
- Section 2 – Site Characterization Activities
- Section 3 – Sample Analytical Results
- Section 4 – Data Completeness
- Section 5 – Summary

Tables and figures are included after Section 5. **Appendix A** provides the sediment core logs, **Appendix B** provides analytical data tables for all samples collected, and **Appendix C** provides a photographic log of site conditions and sampling activities.

1.2 SITE DESCRIPTION

The “Maumee Area of Concern Stage 2 Watershed Restoration Plan” states that the Maumee River begins in Fort Wayne at the confluence of the St. Joseph and St. Mary’s Rivers and flows through Defiance and Napoleon and then on toward Toledo. Two major tributaries join the Maumee River: the Tiffin and Auglaize Rivers. In Wood and Lucas Counties, several smaller streams flow into the Maumee River: Beaver and Tontogany Creeks from the south and Swan Creek, which join the Maumee River in downtown Toledo.

The Maumee River travels more than 130 river miles to Lake Erie, 108 miles of which are located in Ohio. The Maumee River AOC does not include the entire Maumee River watershed. Instead, it includes the river’s lower reach and tributaries as well as some neighboring watersheds (**Figure 1-1**). The boundaries of the Maumee River AOC originally were identified as the area extending from the Bowling Green water intake near Waterville (River Mile 22.8) along the Lower Maumee River downstream to Maumee Bay. The area includes direct drainage into the waters that are within Lucas, Ottawa, and Wood Counties and includes Swan Creek, Ottawa River (Tenmile Creek), Duck Creek, Otter Creek, Grassy Creek, Cedar Creek, and Crane Creek. In 1992, the AOC was expanded to include Packer Creek, Turtle Creek, Rusha Creek, and the Toussaint River. In 2010, the AOC boundaries were formally realigned to match the associated hydrologic units (**Figure 1-1**). The AOC’s drainage area covers nearly all of Lucas County and parts of Fulton, Wood, Ottawa, and Sandusky Counties. The Maumee River AOC covers 787 square miles. The Maumee River has the largest drainage area of any Great Lakes river, with 3,942 stream miles.

The Lower Maumee River project area is located in the Maumee River AOC in Toledo, Lucas County, Ohio. The investigation area extends 5 river miles and is bound on the downstream edge by the Interstate 280 bridge (Veterans’ Glass City Skyway) and on the upstream edge just downstream of Walbridge Park in Toledo, Ohio (**Figure 1-2**). The Ohio Environmental Protection Agency’s (Ohio EPA) “Maumee Remedial Action Plan (RAP) Stage 1 Investigation Report” dated 1990 identified 10 beneficial use impairments (BUI) for the Maumee River AOC that also apply to the Lower Maumee River project area.

The Maumee River subsurface consists of layers of bedrock with overlying layers of gravel, sand, silt, and clay left behind by glaciers and glacial lakes. Most regional bedrock is dolomite, a magnesium-bearing form of limestone. Smaller areas of sandstone and shale are present, especially in northwestern Lucas County.

The soils of the Maumee River are level to gently sloping and are very poorly to somewhat poorly drained. Lucas County formed in clayey and loamy, lake-laid sediment and water-reworked glacial till on broad flats of an old glacial lake.

The land area, or the watershed, that the Maumee River drains is 6,586 square miles, of which about 85 percent (%) is agricultural land. Daily average discharge ranges from a high of 94,000 cubic feet per second (cfs) to a low of 32 cfs and contributes about 25% of the total tributary discharge into Lake Erie exclusive of the Detroit River. The average annual rainfall in the river basin is 34.5 inches. The area in Wood and Lucas counties draining directly into the Maumee River is comparatively small. Most drainage flows into other rivers, Maumee Bay, or Lake Erie.

1.3 SITE BACKGROUND AND HISTORY

The “Maumee Area of Concern Stage 2 Watershed Restoration Plan” states that when the Maumee River AOC was designated, it was primarily due to the large problem of agricultural runoff. However, upon further investigation, more problems were discovered, including former dumps and contaminated industrial sites, combined sewer overflows (CSO), and disposal of dredged materials.

Originally the delisting of the Maumee River AOC was based on restoration of 14 BUIs for the entire AOC. Impairment of beneficial use means a change in the chemical, physical, or biological integrity of the Great Lakes ecosystem. According to the Ohio EPA’s Maumee RAP dated 1990, 10 of the 14 BUIs in the Maumee River AOC required restoration. These BUIs included the following:

- Restrictions on fish and wildlife consumption
- Eutrophication or undesirable algae

- Restrictions on drinking water consumption or taste and odor
- Degradation of fish and wildlife populations
- Beach closings (Recreational Contact)
- Fish tumors or other deformities
- Degradation of aesthetics
- Degradation of benthos
- Restriction on dredging activities
- Loss of fish and wildlife habitat

The Maumee RAP does not identify BUIs by watershed but for the entire Maumee River AOC because the only means of delisting in 1990 was through total restoration of the entire AOC. Since an incremental approach to delisting was adopted in 2001 by the U.S. Policy Committee, the 1990 RAP and its BUIs were re-evaluated with the help of other community partners. This re-evaluation was conducted based on data and information available in the late 1980s and early 1990s and resulted in the preparation of a BUI summary table for each watershed in the Maumee River AOC. These new tables allowed better determination of progress toward restoration of a watershed or a beneficial use.

1.4 POSSIBLE SOURCES OF CONTAMINATION

The biological communities in the Lower Maumee River have been identified as impaired. The land surrounding the Lower Maumee River project area is primarily industrial and commercial, with both current and historical contamination (**Figure 1-3**). These sources of contaminants include various industries, chemical plants, petroleum production, and wastewater outfalls. The “Maumee Area of Concern Stage 2 Watershed Restoration Plan” dated 2006 indicated elevated concentrations of polychlorinated biphenyls (PCB), polycyclic aromatic hydrocarbons (PAH), and heavy metals in surface sediment in the Lower Maumee River project area.

From 1910 to 1990, Jennison Wright ran a creosote operation and manufactured asphalt pavement sealer at an approximately 23-acre site located at 2332 Broadway Avenue in Toledo that it leased from two railroad companies (**Figure 1-3**). From October 1994 to April 1995, the

Norfolk Southern Railway and Conrail railroads performed an initial cleanup called an “interim removal action.” The cleanup was conducted to remove all vessels, structures, drums, waste piles, and residuals of creosote-contaminated soils (PAHs) for off-site disposal. A more detailed investigation by the railroads identified pollutants in soil and groundwater. In soil, these pollutants included PAHs, 1-methylnaphthalene, 2-methylnaphthalene, arsenic, barium, chromium, and mercury. Pollutants in shallow rock and bedrock groundwater included benzene, ethylbenzene, toluene, xylene, arsenic, barium, and PAHs.

The property located at 1968 Miami Street had been owned by the Pilkington North America and Libbey Owens Ford glassmaking companies (**Figure 1-3**). A site assessment indicated soil contaminated with arsenic and groundwater contaminated with arsenic, nickel, chromium, lead, and bis(2-ethylhexyl)phthalate at concentrations exceeding standards allowed for residential and commercial/industrial use. The current property owner voluntarily assessed the property and then conducted a site cleanup of sand ponds that had been used until the 1970s to dispose of wastewater from glassmaking operations.

1.5 PURPOSE OF STUDY AND PROJECT OBJECTIVE

The purpose of the Lower Maumee River GLLA project is to further define chemical contaminants in sediment, locate contaminated areas for additional evaluation, delineate hot spots, and attempt to identify any ongoing sources. The objective of this site characterization was to collect samples for chemical and physical properties analysis needed to support project area assessment and potential remediation activities.

1.6 COPCs AND TARGET ANALYTES

All sediment samples were analyzed for the following COPCs: Target Analyte List (TAL) metals (including mercury) and semivolatile organic compounds (SVOC). In addition, approximately 10% of all sediment samples collected were analyzed for Target Compound List (TCL) pesticides and PCB Aroclors. All sediment samples also were analyzed for physical properties, including % moisture, total organic carbon (TOC), and grain size.

2. SITE CHARACTERIZATION ACTIVITIES

Site characterization activities were conducted from August 1 through 11, 2011, and included sediment sample collection and sediment characterization as discussed below.

2.1 SEDIMENT SAMPLE COLLECTION

The sample collection procedures are detailed in WESTON's QAPP dated July 2011. The data collected during characterization activities will be used to (1) evaluate the locations of the most heavily contaminated sediment and (2) focus areas for further evaluation and remediation.

The Lower Maumee River project area extends 5 river miles, bound on the downstream edge by the Interstate 280 bridge (Veterans' Glass City Skyway) and on the upstream edge just downstream of Walbridge Park in Toledo, Ohio (**Figure 1-2**). Most sediment sampling locations were selected using Visual Sampling Plan (VSP) software with a sample design based on detecting "hot spots" (local areas of elevated concentrations) with a 646-foot-radius and 95% confidence probability. Two sampling locations (LMR11-50 and LMR11-72) were chosen at two historic sampling locations within the project area boundaries previously identified as MAUMEE R DST LOF PONDS ADJ SUNKEN BARGE and MAUMEE R AT PORTSIDE DOCKS, respectively. However, proposed location LMR11-50 was moved closer to a nearby CSO location. Five sampling locations (LMR11-57, LMR11-59, LMR11-60, LMR11-62, and LMR11-63) were biased in an area where the City of Toledo is planning future development. Additionally, samples were not collected from the navigation channel.

A total of 337 sediment samples (including 303 investigative, 17 field split, and 17 duplicate samples) were collected from 84 sampling locations in the Lower Maumee River project area. **Table 2-1** presents the sampling location coordinates, and **Figure 2-1** shows the sediment sampling locations.

Where sediment recovery was adequate, samples typically were collected from the following intervals: 0 to 6, 6 to 24, 24 to 48, 48 to 72, 72 to 96, 96 to 120, 120 to 144, and 144 to 168 inches below sediment surface (bss). Except for the surface interval, each sampling interval was

typically 24 inches long. If less than 12 inches of sediment was encountered in the bottom interval, it typically was included with the previous interval. Location LMR11-09 was not sampled because of poor recovery. In addition, poor recovery was noted in the upper 24 inches of sediment at location LMR11-43. Sediment collected from each sampling depth interval was homogenized, and an aliquot of each sediment sample was submitted for laboratory analysis.

Upstream of Interstate 75, sediment volume was not expected to be adequate to allow collection of a sediment core at sampling locations near the center of the river. Therefore, only a surface sample from 0 to 6 inches bss was planned for collection using a ponar device at these locations. However, during site characterization activities, adequate core recovery was unexpectedly achieved at several locations near the center of the river upstream of Interstate 75. Samples were collected using a ponar device at many of these locations, and then the sampling team returned to several locations to collect a sediment core on a later date. **Table 2-2** presents the sampling and analysis summary, including the sample collection device (ponar or vibracore) for each sediment sample. **Figure 2-2** shows the sediment thickness at each sampling location during the sediment sampling activities.

Sediment cores were collected to depth of refusal or until native material was encountered. Sediment cores typically were collected using the GLNPO research vessel (R/V) Mudpuppy II. However, due to equipment problems with the Mudpuppy II, some sediment samples were collected using a vibracore device mounted to a pontoon boat.

A U.S. EPA Contract Laboratory Program (CLP) laboratory analyzed the samples for SVOCs, TAL metals (including mercury), PCB Aroclors, TCL pesticides, and % moisture. A WESTON-procured subcontracted laboratory, TestAmerica Burlington of Burlington, Vermont, analyzed the samples for grain size and TOC (**Table 2-2**). Section 3 discusses the sample analytical results.

2.2 SEDIMENT CHARACTERISTICS

During site characterization activities, sediment throughout the Lower Maumee River project area largely was uniform. Sediment consisted of dark-brown to black, silty sand and sandy silt

with fine to medium grains throughout. Areas near the shoreline and Corbutt Island also had a surface deposit of well-graded gravel and cobbles. Organic materials were observed throughout much of the top 24 inches of sediment. An oily sheen was observed at location LMR11-69 as the core was extracted. Poor recovery (12 of 60 inches) was noted for this core, and woody debris was noted on the top of the core. A petroleum odor was noticed as cores were recovered from LMR11-50 and LMR11-72. A blue sheen was noted on the water surface as the core from LMR11-72 was recovered.

The maximum water depth encountered during sediment sampling was 22.5 feet. The maximum sediment depth measured was 175 inches at location LMR11-50. **Figure 2-2** shows the sediment thickness recovered at each core location during sediment sampling. **Appendix A** presents the sediment core logs, which provide additional detail regarding the geologic profile and water and sediment depth at each sampling location.

3. SAMPLE ANALYTICAL RESULTS

This section summarizes analytical results for the site characterization samples collected from August 1 through 11, 2011. A total of 337 sediment samples (303 investigative, 17 field split, and 17 duplicate samples) were collected from 84 sampling locations in the Lower Maumee River project area. The table below summarizes the analytical parameters for the investigative samples collected.

Analysis	Sampling Depth (inches bss)							
	0- 6	6- 24	24- 48	48- 72	72- 96	96- 120	120- 144	144- 168
SVOCs	83	66	58	45	30	16	3	2
TAL Metals	83	66	58	45	30	16	3	2
PCB Aroclors	7	13	6	2	1	0	0	0
Pesticides	7	13	6	2	1	0	0	0
Grain Size	81	66	58	45	30	16	3	2
TOC	83	66	58	45	30	16	3	2

The sample results for SVOCs, metals (including mercury), PCBs, and pesticides were compared to Probable Effect Concentrations (PEC) set forth in the document “Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems” (by D.D. MacDonald, et. al., dated 2000). The metals results were also compared to Ohio-specific

Sediment Reference Values (SRV) set forth in the “Ohio Ecological Risk Assessment Guidance Document” dated February 2003 and revised in April 2008. Ecological Screening Levels (ESL) for sediment as set forth in U.S. EPA Region 5’s “Ecological Screening Levels” dated 2003 are also presented as a secondary source of screening criteria and are used for comparison when PECs are not available.

The PECs and ESLs provide screening criteria to evaluate sediment chemistry data. PECs are defined as concentrations above which adverse effects are expected to occur and are the primary screening criteria for this characterization project. The ESLs represent a protective benchmark (for example, water quality criteria, sediment quality guidelines and criteria, and chronic no adverse effect levels) and are the secondary screening criteria. Sample results are compared to ESLs for chemicals that do not have a developed PEC, as discussed in sections 3.1 through 3.4. The Ohio-specific SRVs were developed to identify representative background sediment concentrations for lotic (flowing) water bodies. The SRVs may be used in conjunction with or instead of generating site-specific background concentrations for metals to determine if sediment potentially has been impacted. The SRVs are used as a screening tool for sites that have identified potential sediment contamination in lotic water bodies. Metals concentrations are compared to SRVs for chemicals that do not have a developed PEC as discussed in section 3.2.

Tables 3-1, 3-2, and 3-3 summarize the analytical results for SVOCs, TAL metals, and pesticides, respectively, by sediment depth sampling interval. These tables include the number of samples analyzed per depth interval; the number and percent of detected results; minimum and maximum detected concentrations; screening criteria; and the number of samples exceeding the screening criteria. **Appendix B** presents tables of the complete analytical results compared to PECs. The **Appendix B** tables summarize the sample results for % moisture, TOC, and grain size but do not compare these results to numerical screening criteria. **Appendix C** provides a photographic log of site conditions and sampling activities.

The sections below compare the analytical data to the screening criteria, when available, for SVOCs, TAL metals, PCBs, TCL pesticides, and physical properties.

3.1 SVOCs

A total of 337 (303 investigative, 17 field split, and 17 duplicate) sediment samples were analyzed for SVOCs. **Table 3-1** summarizes the analytical results for SVOCs by sediment depth sampling interval. **Table B-1** in **Appendix B** provides the complete analytical results. Thirty SVOCs were detected in the sediment samples:

- 1,1'-Biphenyl
- 2-Methylnaphthalene
- 2-Methylphenol
- 4-Chloroaniline
- 4-Methylphenol
- Acenaphthene
- Acenaphthylene
- Acetophenone
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Bis(2-ethylhexyl)phthalate
- Butylbenzylphthalate
- Caprolactam
- Carbazole
- Chrysene
- Dibenzo(a,h)anthracene
- Dibenzofuran
- Di-n-butylphthalate
- Di-n-octylphthalate
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Pentachlorophenol
- Phenanthrene
- Pyrene

Of the 30 SVOCs detected, the following PAHs were detected at concentrations that exceeded their respective PECs: anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene.

A total PAH 17 concentration was calculated for each sample by summing the concentration of each detected PAH in addition to all non-detect concentrations at one-half the detection limit for comparison to the total PAH PEC. Total PAH 17 and individual PAH concentrations exceeded the PECs at samples collected from locations LMR11-14 and LMR11-69 at the surface interval of 0 to 6 inches bss. **Figure 3-1** shows the locations where total PAH results exceeded the PEC

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of 22,800 micrograms per kilogram ($\mu\text{g}/\text{kg}$). Anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, phenanthrene, and pyrene exceeded their respective PECs in the sample collected from location LMR11-14 from 0 to 6 inches bss. The calculated total PAH 17 concentration for sample LMR11-14-006 was 92,474.2 $\mu\text{g}/\text{kg}$, which exceeds the total PAH PEC of 22,800 $\mu\text{g}/\text{kg}$. LMR11-14 is near Corbutt Island in the upstream portion of the project area. Concentrations of PAHs exceeding PECs were detected only in the upper 6 inches of sediment at LMR11-14. The downstream side of Corbutt Island, where LMR11-14 is located, is a depositional zone for sediments. Sediment samples collected from deeper intervals at LMR11-14 did not contain PAHs at concentrations exceeding PECs.

The calculated total PAH 17 concentration for sample LMR11-69-006 was 297,600 $\mu\text{g}/\text{kg}$, which exceeds the total PAH PEC of 22,800 $\mu\text{g}/\text{kg}$. Anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene exceeded their respective PECs in the sample collected from LMR11-69 from 0 to 6 inches bss. Sediment recovery was poor at location LMR11-69 so deeper samples were not collected from this location. Therefore, the vertical extent of PAHs at concentrations exceeding the PECs is not defined at this location. LMR11-69 was located near the mouth where Swan Creek discharges into the Maumee River. Concurrent sampling by GLNPO detected elevated concentrations of PAHs in Swan Creek (WESTON's Sediment Assessment Report-Swan Creek dated January 6, 2012).

Samples collected from 0 to 6 inches bss at LMR11-14 and LMR11-69 primarily consisted of sand (greater than 75%). Deeper samples from LMR11-14 consisted of higher percentages of silt and clay than samples from the surface interval. Grain size results are discussed in Section 3.5.

Additionally, although the total PAH value did not exceed the PEC, naphthalene and phenanthrene were detected at concentrations exceeding their PECs at sample location LMR11-50 at a depth of 72 to 96 inches bss. LMR11-50 was located near a CSO, which may be the source of PAHs detected in this area of the river.

PECs have not been developed for the following detected SVOCs that are not PAHs: 1,1'-biphenyl, 2-methylphenol, 4-chloroaniline, 4-methylphenol, acetophenone, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, caprolactam, carbazole, dibenzofuran, di-n-butylphthalate, di-n-octylphthalate, and pentachlorophenol. ESLs are available for comparison for all of these chemicals except 1,1-biphenyl, acetophenone, caprolactam, and carbazole. Concentrations of the following exceeded their respective ESLs: 4-methylphenol, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, and dibenzofuran. Detected concentrations of the following did not exceed their respective ESLs: 2-methylphenol, 4-chloroaniline, di-n-butylphthalate, di-n-octylphthalate, and pentachlorophenol.

The highest concentration of bis(2-ethylhexyl)phthalate (1,500 µg/kg) and the only concentration of dibenzofuran (3,200 µg/kg) exceeding their respective ESLs of 182 and 449 µg/kg were detected in sample LMR11-69-006 where elevated concentrations of PAHs were detected. The highest concentrations of 4-methylphenol were detected in samples collected from LMR11-50, which is located near a CSO. Butylbenzylphthalate concentrations exceeded the ESL of 1,970 µg/kg in only one sample, LMR11-63-006 at a concentration of 7,100 µg/kg. Per the Agency for Toxic Substances and Disease Registry (ATSDR) *Toxicological Profile for Wood Creosote, Coal Tar Creosote, Coal Tar, Coal Tar Pitch, and Coal Tar Pitch Volatiles* (September 2002), 4-methylphenol is a component of wood creosote and dibenzofuran is a component of coal tar creosote.

3.2 TAL METALS

A total of 337 (303 investigative, 17 field split, and 17 duplicate) sediment samples were analyzed for metals. **Table 3-2** summarizes the analytical results for metals by sediment depth sampling interval. **Table B-2** in **Appendix B** provides the complete analytical results. Twenty-two TAL metals were detected in the sediment samples:

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper

- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Vanadium
- Zinc

Thallium was the only TAL metal not detected in at least one sediment sample. Of the 22 TAL metals detected, PECs have been developed for the following nine TAL metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc. The following TAL metals were detected at concentrations exceeding their respective PECs in at least one sample: arsenic, cadmium, chromium, lead, mercury, and zinc. **Figure 3-2** shows the locations where TAL metals results exceeded the PECs. Metals exceeding PECs were noted throughout the investigation area in mostly samples collected closer to the shores. The maximum concentration of lead in sediment, 419 milligrams per kilogram (mg/kg), was detected in a sample collected from location LMR11-69 from 0 to 6 inches bss. Elevated concentrations of PAHs also were detected in this sample which is located near the mouth of Swan Creek. High concentrations of lead also were detected in samples collected from LMR11-63 and LMR11-64 near the Clayton Street/Woodville Road Bridge (Anthony Wayne High Level Bridge).

The maximum concentration of mercury in sediment, 5.6 mg/kg, was detected in a sample collected from LMR11-72 from 0 to 6 inches bss. A petroleum odor and a blue sheen on the water were noticed as the core at LMR11-72 was recovered. Sampling location LMR11-72 was placed at a historic sampling location previously identified as MAUMEE R AT PORTSIDE DOCKS, where elevated metals concentrations have been detected.

PECs have not been developed for the following metals: aluminum, antimony, barium, beryllium, calcium, cobalt, iron, magnesium, manganese, potassium, selenium, silver, sodium, thallium, and vanadium. Ohio-specific SRVs representing background sediment concentrations for lotic (flowing) water bodies are available for the following TAL metals without PECs: aluminum, antimony, barium, calcium, iron, magnesium, manganese, potassium, and selenium. **Figure 3-3** shows locations where results for TAL metals without PECs exceeded the SRVs.

3.3 PCBs

A total of 33 (29 investigative, 2 field split, and 2 duplicate) sediment samples were analyzed for PCB Aroclors. **Table B-3** in **Appendix B** provides the complete analytical results. PCB Aroclors were not detected in any sediment sample. PCBs were not originally identified as a major contaminant of concern, and more sampling may be needed to identify the nature and extent of PCB contamination.

3.4 TCL PESTICIDES

A total of 33 (29 investigative, 2 field split, and 2 duplicate) sediment samples were analyzed for TCL pesticides. **Table 3-3** summarizes the analytical results for pesticides by sediment depth sampling interval. **Table B-4** in **Appendix B** provides the complete analytical results. Six TCL pesticides were detected in the sediment samples:

- Aldrin
- Beta-BHC
- Endrin aldehyde
- Gamma-BHC (Lindane)
- Gamma-chlordane
- Heptachlor

Of the six detected pesticides, PECs have been developed for gamma-BHC and gamma-chlordane. Detected concentrations of gamma-BHC and gamma-chlordane did not exceed their respective PECs. PECs have not been developed for aldrin, beta-BHC, endrin aldehyde, or heptachlor. ESLs are available for these chemicals. Of these chemicals, heptachlor was the only chemical detected at concentrations exceeding the ESL. Heptachlor concentrations exceeded the ESL of 0.6 µg/kg in two samples, LMR11-12-006 at a concentration of 2.7 µg/kg and LMR11-26-024 at a concentration of 1.9 µg/kg.

3.5 PHYSICAL PROPERTIES

Grain size analysis was conducted on a total of 318 (301 investigative and 17 field split) sediment samples, and TOC analysis was conducted on a total of 337 (303 investigative, 17 field split, and 17 duplicate) sediment samples. **Table B-5** of **Appendix B** provides the complete analytical results. The geotechnical results for the 318 samples collected for grain size analysis

indicate that the material sampled consisted of a mixture of fine sand, silt, and clay. The average composition was 27% sand, 28% silt, and 42% clay.

4. DATA COMPLETENESS

Data validation summaries were produced for each chemical analyte group. Data generated through the U.S. EPA CLP underwent an initial performance assessment and compliance screening check performed and uploaded by the Sample Management Office (SMO) to the Electronic Data Exchange and Evaluation System (EXES) website. These checks were conducted to confirm conformance with the U.S. EPA CLP National Functional Guidelines (NFG). After this assessment, Shaw Environmental and Infrastructure Inc., (Shaw) under subcontract to GLNPO, completed validation of the data generated by the U.S. EPA CLP (for SVOCs, TAL metals and mercury, PCB Aroclors, TCL pesticides, and % moisture analyses). Shaw performed Tier 2 validation on 5 to 10% of the samples and Tier 1 validation on the remaining 90 to 95%.

During the validation process, Shaw may have removed data qualifiers for following reasons:

- The EXES Software often J or R flag analytical results for temperature more precisely than U.S. CLP NFG standards. Data flags may have been removed in some instances where temperature was not out of range, but the software indicated it was.
- EXES generated flags may have been removed by validators because EXES does not decipher between multiple columns/calibrations.
- U.S. CLP NFG does not qualify for matrix spikes; EXES qualifies for spikes based on R2 guidance. Validation was conducted following U.S. EPA CLP NFGs and some flags may have been removed by the validator.
- Relative percent difference (RPD) over 40 are noted by validators and flagged with the dataset.

Data received from the subcontracted laboratory (TestAmerica Burlington) for all parameters except grain size were run through the Automated Data Review (ADR) checker. WESTON completed a 5% full manual data validation for all analyses conducted by the WESTON-

procured subcontractor laboratory (grain size and TOC). The following are the general guidelines used for the data validation:

- NFGs for Superfund Organic Methods Data Review, U.S. EPA, June 2008
- NFGs for Inorganic Superfund Data Review, U.S. EPA, January 2010

Data not covered in the NFGs were compared to applicable analytical method guidelines, the laboratory standard operating procedures (SOP), and guidelines described in the WESTON QAPP dated July 2011.

The data validation consisted of completing the GLNPO Quality Assurance/Quality Control (QA/QC) checklist and preparing a data narrative summary report for each chemical parameter, which included the following completeness and usability components:

- Summary of data review
- Minor problems (as applicable)
 - Holding times
 - Method blanks
 - Matrix spike/matrix spike duplicates
 - Surrogates
 - Calibration
 - Laboratory control samples
 - Laboratory duplicates
 - Field duplicate results
- Data quality indicator review
 - Sensitivity
 - Precision
 - Accuracy
 - Completeness

Based on the data validation and data usability assessment, all data are considered suitable for project decisions per the QAPP. All the data validation summaries have been submitted to GLNPO under separate cover along with all of the Shaw and WESTON Data Validation Summaries for inclusion into GLNPO's GLSED.

5. SUMMARY

During the sediment investigation, a total of 337 sediment samples (including field split and duplicate samples) were collected from 84 sampling locations in the Lower Maumee project area. Where sediment recovery was adequate, samples typically were collected from the following intervals: 0 to 6, 6 to 24, 24 to 48, 48 to 72, 72 to 96, 96 to 120, 120 to 144, and 144 to 168 inches bss.

All sediment samples were analyzed for the COPCs TAL metals (including mercury) and SVOCs. In addition, approximately 10% of all sediment samples collected were analyzed for TCL pesticides and PCB Aroclors. All sediment samples also were analyzed for physical properties, including % moisture, TOC, and grain size.

The sample results for SVOCs, metals, PCBs, and pesticides were compared to PECs set forth in the document "Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems" (by D.D. MacDonald, et. al., dated 2000). The metals results were also compared to Ohio-specific SRVs set forth in the "Ohio Ecological Risk Assessment Guidance Document" dated February 2003, revised April 2008. ESLs for sediment as set forth in U.S. EPA Region 5's "Ecological Screening Levels" dated 2003 were presented as a secondary source of screening criteria for chemicals that do not have a developed PEC.

The PECs and ESLs provide screening criteria to evaluate sediment chemistry data. PECs are defined as concentrations above which adverse effects are expected to occur and are the primary screening criteria for this characterization project. The ESLs represent a protective benchmark (for example, water quality criteria, sediment quality guidelines and criteria, and chronic no adverse effect levels) and are the secondary screening criteria. The Ohio-specific SRVs were developed to identify representative background sediment concentrations for lotic (flowing) water bodies.

The sections below summarize the comparison of the analytical data to the screening levels, when available, for SVOCs, TAL metals (including mercury), PCBs, and TCL pesticides.

5.1 SVOCs

Total PAH 17 and several individual PAHs (anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene) were detected at concentrations exceeding PECs.

Anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, phenanthrene, and pyrene exceeded their respective PECs in the sample collected from location LMR11-14 from 0 to 6 inches bss. The calculated total PAH 17 concentration for sample LMR11-14-006 was 92,474.2 µg/kg, which exceeds the total PAH PEC of 22,800 µg/kg. LMR11-14 is near Corbutt Island in the upstream portion of the project area. Concentrations of PAHs exceeding PECs were detected only in the upper 6 inches of sediment at LMR11-14. The downstream side of Corbutt Island, where LMR11-14 is located, is a depositional zone for sediments. Sediment samples collected from deeper intervals at LMR11-14 did not contain PAHs at concentrations exceeding PECs. The 0 to 6 inch bss sample at LMR11-14 consisted primarily of sand (greater than 75%) whereas deeper samples at LMR11-14 consisted of higher percentages of silt and clay.

Anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene exceeded their respective PECs in the sample collected from LMR11-69 from 0 to 6 inches bss. The calculated total PAH 17 concentration for sample LMR11-69-006 was 297,600 µg/kg, which exceeds the total PAH PEC of 22,800 µg/kg. Sediment recovery was poor at location LMR11-69 so deeper samples were not collected from this location. Therefore, the vertical extent of PAHs at concentrations exceeding the PECs is not defined. LMR11-69 was located near the mouth where Swan Creek discharges into the Maumee River. Elevated concentrations of PAHs have been detected in Swan Creek. The 0 to 6 inch bss sample at LMR11-69 consisted primarily of sand (greater than 75%).

Naphthalene and phenanthrene were detected at concentrations exceeding their PECs at sample location LMR11-50 at a depth of 72 to 96 inches bss. LMR11-50 was located near a CSO, which may be the source of PAHs detected in this area of the river.

5.2 TAL METALS

Metals exceeding PECs were noted throughout the investigation area, mostly in samples collected closer to the shores. The following TAL metals were detected at concentrations exceeding their respective PECs in at least one sample: arsenic, cadmium, chromium, lead, mercury, and zinc. The maximum concentration of lead in sediment, 419 mg/kg, was detected in a sample collected from location LMR11-69 from 0 to 6 inches bss. Elevated concentrations of PAHs also were detected in this sample which is located near the mouth of Swan Creek. High concentrations of lead also were detected in samples collected from LMR11-63 and LMR11-64 near the Clayton Street / Woodville Road Bridge (Anthony Wayne High Level Bridge).

The maximum concentration of mercury in sediment, 5.6 mg/kg, was detected in a sample collected from LMR11-72 from 0 to 6 inches bss. A petroleum odor and a blue sheen on the water were noticed as the core at LMR11-72 was recovered. Sampling location LMR11-72 was placed at a historic sampling location previously identified as MAUMEE R AT PORTSIDE DOCKS, where elevated metals concentrations have been detected.

Sample location LMR11-72 is directly downstream from sample location LMR11-69 which also showed elevated concentrations of metals.

5.3 PCBs

PCBs were not identified as a contaminant of concern for this site. While a subset of sediment samples were analyzed for PCBs, they were not detected in any sediment samples collected during site characterization activities.

5.4 TCL PESTICIDES

Detected concentrations of pesticides did not exceed their respective PECs in any samples collected during the site characterization activities.

6. NEXT STEPS

The purpose of the Lower Maumee River GLLA project is to further define chemical contaminants in sediment, locate contaminated areas for additional evaluation, delineate hot spots, and attempt to identify any ongoing sources. The objective of this site characterization was to collect samples for chemical and physical properties analysis needed to support project area assessment and potential remediation activities.

The data collected during the site characterization activities conducted for the Lower Maumee River project area is sufficient to meet the site characterization objectives. The data gaps and recommendations for future work to meet the objectives of the GLLA project are as follows:

- Delineate hot spots of contamination and determine the nature and extent of PAH and metal contamination in the Lower Maumee River project area.
- Identify any on-going sources of contamination.
 - Determine sources of potential upstream contamination.
 - Determine the influence of contamination from Swan Creek on the project area.
 - Determine the impact of CSOs on the project area.
- Estimate the bioavailability of contaminants of concern using Equilibrium Partitioning Sediment Benchmarks (ESBs) and determine ESB Toxic Units (ESBTU).
- Where bioaccumulative chemicals are present in sediment, it may be necessary to evaluate fish tissue and/or water column data in addition to sediment data in order to determine appropriate sediment management options.
- Evaluate metal toxicity through an indirect estimate of bioavailability based on concentrations of Simultaneously Extracted Metals (SEM).
- Estimate the volume of contaminated sediments.

TABLES

Table 2-1
Sampling Location Coordinates
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Location ID	Latitude (D.d)	Longitude (D.d)	Location ID	Latitude (D.d)	Longitude (D.d)
LMR11-01	41.62089	-83.57261	LMR11-44	41.62418	-83.53952
LMR11-02	41.61784	-83.57018	LMR11-45	41.62699	-83.53946
LMR11-03	41.62091	-83.57023	LMR11-46	41.62571	-83.53834
LMR11-04	41.61786	-83.56781	LMR11-47	41.62422	-83.53703
LMR11-05	41.61634	-83.56661	LMR11-48	41.62742	-83.53724
LMR11-06	41.62246	-83.56907	LMR11-49	41.62576	-83.53614
LMR11-07	41.61789	-83.56545	LMR11-50	41.62450	-83.53336
LMR11-08	41.62248	-83.56671	LMR11-51	41.62742	-83.53495
LMR11-10	41.62250	-83.56434	LMR11-52	41.62567	-83.53392
LMR11-11	41.62098	-83.56314	LMR11-53	41.62923	-83.53318
LMR11-12	41.61945	-83.56193	LMR11-54	41.62677	-83.53375
LMR11-13	41.62405	-83.56319	LMR11-55	41.63052	-83.53230
LMR11-14	41.62253	-83.56198	LMR11-56	41.63045	-83.53033
LMR11-15	41.62097	-83.56058	LMR11-57	41.63355	-83.53268
LMR11-16	41.61937	-83.55905	LMR11-58	41.63290	-83.53024
LMR11-17	41.62407	-83.56082	LMR11-59	41.63531	-83.53322
LMR11-18	41.62255	-83.55962	LMR11-60	41.63705	-83.53373
LMR11-19	41.62090	-83.55844	LMR11-61	41.63812	-83.53187
LMR11-20	41.62409	-83.55846	LMR11-62	41.63887	-83.53414
LMR11-21	41.62257	-83.55725	LMR11-63	41.64059	-83.53454
LMR11-22	41.62104	-83.55605	LMR11-64	41.64170	-83.53417
LMR11-23	41.62409	-83.55611	LMR11-65	41.64428	-83.53394
LMR11-24	41.62259	-83.55489	LMR11-66	41.64424	-83.53168
LMR11-25	41.62107	-83.55368	LMR11-67	41.64726	-83.53336
LMR11-26	41.62408	-83.55370	LMR11-68	41.64735	-83.53081
LMR11-27	41.62261	-83.55253	LMR11-69	41.64899	-83.53292
LMR11-28	41.62108	-83.55134	LMR11-70	41.64912	-83.52997
LMR11-29	41.62416	-83.55137	LMR11-71	41.64924	-83.52784
LMR11-30	41.62263	-83.55016	LMR11-72	41.65105	-83.53065
LMR11-31	41.62195	-83.54921	LMR11-73	41.62905	-83.53032
LMR11-32	41.62569	-83.55012	LMR11-74	41.65173	-83.52810
LMR11-33	41.62418	-83.54900	LMR11-75	41.65209	-83.52589
LMR11-34	41.62266	-83.54780	LMR11-76	41.65354	-83.52470
LMR11-35	41.62573	-83.54794	LMR11-77	41.65391	-83.52263
LMR11-36	41.62420	-83.54664	LMR11-78	41.65501	-83.52130
LMR11-37	41.62261	-83.54536	LMR11-79	41.65688	-83.52217
LMR11-38	41.62565	-83.54551	LMR11-80	41.65533	-83.51945
LMR11-39	41.62422	-83.54428	LMR11-81	41.65668	-83.51992
LMR11-40	41.62260	-83.54293	LMR11-82	41.65665	-83.51760
LMR11-41	41.62577	-83.54312	LMR11-83	41.62488	-83.51631
LMR11-42	41.62376	-83.54119	LMR11-84	41.65812	-83.51412
LMR11-43	41.62585	-83.54126	LMR11-85	41.65975	-83.51286

Notes:

D.d - Decimal degrees

ID - Identification

**Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-01	LMR11-01-006	Ponar	0 - 6	8/2/2011	X	X			X	X
	LMR11-01-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-01-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-01-060	Vibracore	48 - 60	8/5/2011	X	X			X	X
LMR11-02	LMR11-02-006	Ponar	0 - 6	8/2/2011	X	X	X	X	X	X
LMR11-03	LMR11-03-006	Ponar	0 - 6	8/3/2011	X	X			X	X
	LMR11-03-024	Vibracore	6 - 24	8/3/2011	X	X			X	X
	LMR11-03-048	Vibracore	24 - 48	8/3/2011	X	X			X	X
	LMR11-03-059	Vibracore	48 - 59	8/3/2011	X	X			X	X
LMR11-04	LMR11-04-006	Ponar	0 - 6	8/3/2011	X	X			X	X
LMR11-05	LMR11-05-006	Ponar	0 - 6	8/4/2011	X	X			X	X
	LMR11-05-018	Vibracore	6 - 18	8/4/2011	X	X			X	X
LMR11-06	LMR11-06-006	Ponar	0 - 6	8/3/2011	X	X			X	X
	LMR11-06-024	Vibracore	6 - 24	8/3/2011	X	X			X	X
	LMR11-06-052	Vibracore	24 - 52	8/3/2011	X	X			X	X
LMR11-07	LMR11-07-006	Ponar	0 - 6	8/3/2011	X	X			X	X
LMR11-08	LMR11-08-006	Ponar	0 - 6	8/3/2011	X	X			X	X
	LMR11-08-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-08-052	Vibracore	24 - 52	8/5/2011	X	X			X	X
LMR11-10	LMR11-10-006	Ponar	0 - 6	8/4/2011	X	X			X	X
	LMR11-10-024	Vibracore	6 - 24	8/4/2011	X	X			X	X
	LMR11-10-045	Vibracore	24 - 45	8/4/2011	X	X			X	X
LMR11-11	LMR11-11-006	Ponar	0 - 6	8/5/2011	X	X				X
	LMR11-11-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-11-037	Vibracore	24 - 37	8/5/2011	X	X			X	X
LMR11-12	LMR11-12-006	Ponar	0 - 6	8/3/2011	X	X	X	X	X	X
LMR11-13	LMR11-13-006	Ponar	0 - 6	8/3/2011	X	X			X	X
	LMR11-13-026	hand-drive	6 - 26	8/3/2011	X	X			X	X
LMR11-14	LMR11-14-006	Ponar	0 - 6	8/5/2011	X	X			X	X
	LMR11-14-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-14-045	Vibracore	24 - 45	8/5/2011	X	X			X	X
LMR11-15	LMR11-15-006	Vibracore	0 - 6	8/9/2011	X	X			X	X
	LMR11-15-006-DP	Vibracore	0 - 6	8/9/2011	X	X				X
	LMR11-15-024	Vibracore	6 - 24	8/9/2011	X	X			X	X
	LMR11-15-024-DP	Vibracore	6 - 24	8/9/2011	X	X				X
	LMR11-15-048	Vibracore	24 - 48	8/9/2011	X	X	X	X	X	X
	LMR11-15-048-DP	Vibracore	24 - 48	8/9/2011	X	X	X	X		X
	LMR11-15-072	Vibracore	48 - 72	8/9/2011	X	X			X	X
LMR11-16	LMR11-15-104	Vibracore	72 - 104	8/9/2011	X	X			X	X
	LMR11-16-006	Vibracore	0 - 6	8/9/2011	X	X			X	X
	LMR11-16-024	Vibracore	6 - 24	8/9/2011	X	X	X	X	X	X
	LMR11-16-048	Vibracore	24 - 48	8/9/2011	X	X			X	X
LMR11-17	LMR11-16-072	Vibracore	48 - 72	8/9/2011	X	X			X	X
	LMR11-17-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-18	LMR11-17-021	Vibracore	6 - 21	8/4/2011	X	X			X	X
	LMR11-18-006	Ponar	0 - 6	8/3/2011	X	X			X	X
	LMR11-18-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-18-048	Vibracore	24 - 48	8/5/2011	X	X			X	X

**Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-19	LMR11-19-006	Ponar	0 - 6	8/3/2011	X	X			X	X
	LMR11-19-014	Vibracore	6 - 14	8/3/2011	X	X			X	X
LMR11-20	LMR11-20-006	Ponar	0 - 6	8/2/2011	X	X			X	X
	LMR11-20-006FS	Ponar	0 - 6	8/2/2011	X	X			X	X
	LMR11-20-024	Vibracore	6 - 24	8/5/2011	X	X	X	X	X	X
	LMR11-20-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-20-060	Vibracore	48 - 60	8/5/2011	X	X			X	X
LMR11-21	LMR11-21-006	Ponar	0 - 6	8/3/2011	X	X			X	X
LMR11-22	LMR11-22-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-23	LMR11-23-006	Vibracore	0 - 6	8/11/2011	X	X	X	X	X	X
	LMR11-23-024	Vibracore	6 - 24	8/11/2011	X	X	X	X	X	X
	LMR11-23-048	Vibracore	24 - 48	8/11/2011	X	X			X	X
	LMR11-23-072	Vibracore	48 - 72	8/11/2011	X	X			X	X
	LMR11-23-096	Vibracore	72 - 96	8/11/2011	X	X			X	X
	LMR11-23-115	Vibracore	96 - 115	8/11/2011	X	X			X	X
LMR11-24	LMR11-24-006	Ponar	0 - 6	8/4/2011	X	X			X	X
	LMR11-24-024	Vibracore	6 - 24	8/11/2011	X	X			X	X
	LMR11-24-048	Vibracore	24 - 48	8/11/2011	X	X	X	X	X	X
	LMR11-24-072	Vibracore	48 - 72	8/11/2011	X	X			X	X
	LMR11-24-096	Vibracore	72 - 96	8/11/2011	X	X			X	X
LMR11-25	LMR11-25-006	Vibracore	0 - 6	8/11/2011	X	X	X	X	X	X
	LMR11-25-024	Vibracore	6 - 24	8/11/2011	X	X			X	X
	LMR11-25-048	Vibracore	24 - 48	8/11/2011	X	X	X	X	X	X
	LMR11-25-072	Vibracore	48 - 72	8/11/2011	X	X			X	X
	LMR11-25-096	Vibracore	72 - 96	8/11/2011	X	X			X	X
LMR11-26	LMR11-26-006	Vibracore	0 - 6	8/10/2011	X	X			X	X
	LMR11-26-024	Vibracore	6 - 24	8/10/2011	X	X	X	X	X	X
	LMR11-26-048	Vibracore	24 - 48	8/10/2011	X	X			X	X
	LMR11-26-072	Vibracore	48 - 72	8/10/2011	X	X			X	X
	LMR11-26-096	Vibracore	72 - 96	8/10/2011	X	X			X	X
	LMR11-26-117	Vibracore	96 - 117	8/10/2011	X	X			X	X
LMR11-27	LMR11-27-006	Ponar	0 - 6	8/4/2011	X	X			X	X
	LMR11-27-024	Vibracore	6 - 24	8/11/2011	X	X			X	X
	LMR11-27-048	Vibracore	24 - 48	8/11/2011	X	X	X	X	X	X
	LMR11-27-072	Vibracore	48 - 72	8/11/2011	X	X			X	X
	LMR11-27-096	Vibracore	72 - 96	8/11/2011	X	X			X	X
	LMR11-27-115	Vibracore	96 - 115	8/11/2011	X	X			X	X
LMR11-28	LMR11-28-006	Vibracore	0 - 6	8/10/2011	X	X			X	X
	LMR11-28-034	Vibracore	6 - 34	8/10/2011	X	X	X	X	X	X
LMR11-29	LMR11-29-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-30	LMR11-30-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-31	LMR11-31-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-32	LMR11-32-006	Vibracore	0 - 6	8/10/2011	X	X			X	X
	LMR11-32-024	Vibracore	6 - 24	8/10/2011	X	X			X	X
	LMR11-32-048	Vibracore	24 - 48	8/10/2011	X	X			X	X
	LMR11-32-072	Vibracore	48 - 72	8/10/2011	X	X	X	X	X	X
	LMR11-32-096	Vibracore	72 - 96	8/10/2011	X	X	X	X	X	X
	LMR11-32-116	Vibracore	96 - 116	8/10/2011	X	X			X	X
LMR11-33	LMR11-33-006	Ponar	0 - 6	8/4/2011	X	X			X	X

**Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-34	LMR11-34-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-35	LMR11-35-006	Vibracore	0 - 6	8/10/2011	X	X	X	X	X	X
	LMR11-35-024	Vibracore	6 - 24	8/10/2011	X	X			X	X
	LMR11-35-024FS	Vibracore	6 - 24	8/10/2011	X	X			X	X
	LMR11-35-048	Vibracore	24 - 48	8/10/2011	X	X			X	X
	LMR11-35-072	Vibracore	48 - 72	8/10/2011	X	X	X	X	X	X
	LMR11-35-096	Vibracore	72 - 96	8/10/2011	X	X			X	X
	LMR11-35-116	Vibracore	96 - 116	8/10/2011	X	X			X	X
LMR11-36	LMR11-36-006	Ponar	0 - 6	8/4/2011	X	X	X	X	X	X
LMR11-37	LMR11-37-006	Vibracore	0 - 6	8/10/2011	X	X			X	X
	LMR11-37-024	Vibracore	6 - 24	8/10/2011	X	X			X	X
	LMR11-37-048	Vibracore	24 - 48	8/10/2011	X	X	X	X	X	X
	LMR11-37-048-DP	Vibracore	24 - 48	8/10/2011	X	X	X	X		X
	LMR11-37-072	Vibracore	48 - 72	8/10/2011	X	X			X	X
LMR11-38	LMR11-38-006	Vibracore	0 - 6	8/9/2011	X	X			X	X
	LMR11-38-024	Vibracore	6 - 24	8/9/2011	X	X			X	X
	LMR11-38-024-DP	Vibracore	6 - 24	8/9/2011	X	X				X
	LMR11-38-024FS	Vibracore	6 - 24	8/9/2011	X	X			X	X
	LMR11-38-048	Vibracore	24 - 48	8/9/2011	X	X			X	X
	LMR11-38-048-DP	Vibracore	24 - 48	8/9/2011	X	X				X
	LMR11-38-072	Vibracore	48 - 72	8/9/2011	X	X			X	X
	LMR11-38-072-DP	Vibracore	48 - 72	8/9/2011	X	X				X
LMR11-39	LMR11-39-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-40	LMR11-40-006	Vibracore	0 - 6	8/10/2011	X	X			X	X
	LMR11-40-024	Vibracore	6 - 24	8/10/2011	X	X	X	X	X	X
	LMR11-40-048	Vibracore	24 - 48	8/10/2011	X	X			X	X
	LMR11-40-084	Vibracore	48 - 84	8/10/2011	X	X			X	X
LMR11-41	LMR11-41-006	Ponar	0 - 6	8/4/2011	X	X			X	X
LMR11-42	LMR11-42-006	Vibracore	0 - 6	8/9/2011	X	X			X	X
	LMR11-42-024	Vibracore	6 - 24	8/9/2011	X	X			X	X
	LMR11-42-048	Vibracore	24 - 48	8/9/2011	X	X			X	X
	LMR11-42-048FS	Vibracore	24 - 48	8/9/2011	X	X			X	X
	LMR11-42-072	Vibracore	48 - 72	8/9/2011	X	X			X	X
	LMR11-42-096	Vibracore	72 - 96	8/9/2011	X	X			X	X
	LMR11-42-129	Vibracore	96 - 129	8/9/2011	X	X			X	X
LMR11-43	LMR11-43-030	Vibracore	24 - 30	8/9/2011	X	X			X	X
LMR11-44	LMR11-44-006	Vibracore	0 - 6	8/9/2011	X	X			X	X
	LMR11-44-024	Vibracore	6 - 24	8/9/2011	X	X			X	X
	LMR11-44-024FS	Vibracore	6 - 24	8/9/2011	X	X			X	X
	LMR11-44-048	Vibracore	24 - 48	8/9/2011	X	X			X	X
	LMR11-44-072	Vibracore	48 - 72	8/9/2011	X	X			X	X
	LMR11-44-096	Vibracore	72 - 96	8/9/2011	X	X			X	X
LMR11-45	LMR11-45-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-45-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-45-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-45-048FS	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-45-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
	LMR11-45-096	Vibracore	72 - 96	8/8/2011	X	X			X	X

Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-46	LMR11-46-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-46-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-46-024FS	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-46-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-46-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
	LMR11-46-093	Vibracore	72 - 93	8/8/2011	X	X			X	X
LMR11-47	LMR11-47-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-47-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-47-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-47-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
	LMR11-47-096	Vibracore	72 - 96	8/8/2011	X	X			X	X
	LMR11-47-120	Vibracore	96 - 120	8/8/2011	X	X			X	X
	LMR11-47-144	Vibracore	120 - 144	8/8/2011	X	X			X	X
LMR11-48	LMR11-48-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-48-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-48-024FS	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-48-048	Vibracore	24 - 48	8/8/2011	X	X	X	X	X	X
	LMR11-48-061	Vibracore	48 - 61	8/8/2011	X	X			X	X
LMR11-49	LMR11-49-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-49-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-49-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-49-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
	LMR11-49-096	Vibracore	72 - 96	8/8/2011	X	X			X	X
	LMR11-49-115	Vibracore	96 - 115	8/8/2011	X	X			X	X
LMR11-50	LMR11-50-006	Vibracore	0 - 6	8/8/2011	X	X	X	X	X	X
	LMR11-50-006-DP	Vibracore	0 - 6	8/8/2011	X	X				X
	LMR11-50-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-50-024-DP	Vibracore	6 - 24	8/8/2011	X	X				X
	LMR11-50-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-50-048-DP	Vibracore	24 - 48	8/8/2011	X	X				X
	LMR11-50-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
	LMR11-50-096	Vibracore	72 - 96	8/8/2011	X	X			X	X
	LMR11-50-120	Vibracore	96 - 120	8/8/2011	X	X			X	X
	LMR11-50-144	Vibracore	120 - 144	8/8/2011	X	X			X	X
	LMR11-50-175	Vibracore	144 - 175	8/8/2011	X	X			X	X
LMR11-51	LMR11-51-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-51-024	Vibracore	6 - 24	8/7/2011	X	X			X	X
	LMR11-51-048	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-51-075	Vibracore	48 - 75	8/7/2011	X	X			X	X
LMR11-52	LMR11-52-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-52-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-52-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-52-048FS	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-52-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
LMR11-53	LMR11-53-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-53-024	Vibracore	6 - 24	8/7/2011	X	X			X	X
	LMR11-53-048	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-53-073	Vibracore	48 - 73	8/7/2011	X	X			X	X

Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
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Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-54	LMR11-54-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-54-006-DP	Vibracore	0 - 6	8/8/2011	X	X				X
	LMR11-54-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-54-024-DP	Vibracore	6 - 24	8/8/2011	X	X				X
	LMR11-54-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-54-048-DP	Vibracore	24 - 48	8/8/2011	X	X				X
	LMR11-54-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
LMR11-54-086	Vibracore	72 - 86	8/8/2011	X	X			X	X	
LMR11-55	LMR11-55-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-55-006-DP	Vibracore	0 - 6	8/7/2011	X	X				X
	LMR11-55-030	Vibracore	6 - 30	8/7/2011	X	X			X	X
	LMR11-55-030-DP	Vibracore	6 - 30	8/7/2011	X	X				X
LMR11-56	LMR11-56-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-56-024	Vibracore	6 - 24	8/7/2011	X	X			X	X
	LMR11-56-036	Vibracore	24 - 36	8/7/2011	X	X			X	X
LMR11-57	LMR11-57-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-57-024	Vibracore	6 - 24	8/6/2011	X	X			X	X
	LMR11-57-048	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-57-062	Vibracore	48 - 62	8/6/2011	X	X			X	X
LMR11-58	LMR11-58-010	Vibracore	0 - 10	8/6/2011	X	X			X	X
LMR11-59	LMR11-59-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-59-024	Vibracore	6 - 24	8/6/2011	X	X	X	X	X	X
	LMR11-59-048	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-59-072	Vibracore	48 - 72	8/6/2011	X	X			X	X
	LMR11-59-096	Vibracore	72 - 96	8/6/2011	X	X			X	X
	LMR11-59-116	Vibracore	96 - 116	8/6/2011	X	X			X	X
LMR11-60	LMR11-60-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-60-024	Vibracore	6 - 24	8/6/2011	X	X			X	X
	LMR11-60-048	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-60-048FS	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-60-072	Vibracore	48 - 72	8/6/2011	X	X			X	X
	LMR11-60-092	Vibracore	72 - 92	8/6/2011	X	X			X	X
LMR11-61	LMR11-61-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-61-030	Vibracore	6 - 30	8/6/2011	X	X			X	X
LMR11-62	LMR11-62-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-62-024	Vibracore	6 - 24	8/6/2011	X	X			X	X
	LMR11-62-024DP	Vibracore	6 - 24	8/6/2011	X	X				X
	LMR11-62-048	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-62-072	Vibracore	48 - 72	8/6/2011	X	X			X	X
	LMR11-62-096	Vibracore	72 - 96	8/6/2011	X	X			X	X
	LMR11-62-108	Vibracore	96 - 108	8/6/2011	X	X			X	X
LMR11-63	LMR11-63-006	Vibracore	0 - 6	8/8/2011	X	X			X	X
	LMR11-63-024	Vibracore	6 - 24	8/8/2011	X	X			X	X
	LMR11-63-048	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-63-048FS	Vibracore	24 - 48	8/8/2011	X	X			X	X
	LMR11-63-072	Vibracore	48 - 72	8/8/2011	X	X			X	X
	LMR11-63-096	Vibracore	72 - 96	8/8/2011	X	X			X	X
	LMR11-63-115	Vibracore	96 - 115	8/8/2011	X	X			X	X

**Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-64	LMR11-88-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-88-024	Vibracore	6 - 24	8/7/2011	X	X			X	X
	LMR11-88-048	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-88-072	Vibracore	48 - 72	8/7/2011	X	X			X	X
	LMR11-88-088	Vibracore	72 - 88	8/7/2011	X	X			X	X
LMR11-65	LMR11-65-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-65-024	Vibracore	6 - 24	8/6/2011	X	X			X	X
LMR11-66	LMR11-66-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-66-024	Vibracore	6 - 24	8/7/2011	X	X	X	X	X	X
	LMR11-66-048	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-66-048FS	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-66-072	Vibracore	48 - 72	8/7/2011	X	X			X	X
	LMR11-66-096	Vibracore	72 - 96	8/7/2011	X	X			X	X
	LMR11-66-117	Vibracore	96 - 117	8/7/2011	X	X			X	X
LMR11-67	LMR11-67-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-67-024	Vibracore	6 - 24	8/6/2011	X	X			X	X
	LMR11-67-048	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-67-077	Vibracore	48 - 77	8/6/2011	X	X			X	X
LMR11-68	LMR11-68-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-68-024	Vibracore	6 - 24	8/7/2011	X	X			X	X
	LMR11-68-048	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-68-072	Vibracore	48 - 72	8/7/2011	X	X			X	X
	LMR11-68-096	Vibracore	72 - 96	8/7/2011	X	X			X	X
LMR11-69	LMR11-69-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
LMR11-70	LMR11-70-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-70-024	Vibracore	6 - 24	8/7/2011	X	X	X	X	X	X
	LMR11-70-048	Vibracore	24 - 48	8/7/2011	X	X			X	X
	LMR11-70-072	Vibracore	48 - 72	8/7/2011	X	X			X	X
	LMR11-70-072FS	Vibracore	48 - 72	8/7/2011	X	X			X	X
	LMR11-70-085	Vibracore	72 - 85	8/7/2011	X	X			X	X
LMR11-71	LMR11-71-006	Vibracore	0 - 6	8/6/2011	X	X			X	X
	LMR11-71-024	Vibracore	6 - 24	8/6/2011	X	X	X	X	X	X
	LMR11-71-024FS	Vibracore	6 - 24	8/6/2011	X	X	X	X	X	X
	LMR11-71-048	Vibracore	24 - 48	8/6/2011	X	X			X	X
	LMR11-71-072	Vibracore	48 - 72	8/6/2011	X	X			X	X
	LMR11-71-096	Vibracore	72 - 96	8/6/2011	X	X			X	X
	LMR11-71-120	Vibracore	96 - 120	8/6/2011	X	X			X	X
	LMR11-71-144	Vibracore	120 - 144	8/6/2011	X	X			X	X
LMR11-71-161	Vibracore	144 - 161	8/6/2011	X	X			X	X	
LMR11-72	LMR11-72-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-72-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-72-035	Vibracore	24 - 35	8/5/2011	X	X			X	X
LMR11-73	LMR11-73-006	Vibracore	0 - 6	8/7/2011	X	X			X	X
	LMR11-73-024	Vibracore	6 - 24	8/7/2011	X	X			X	X
	LMR11-73-042	Vibracore	24 - 42	8/7/2011	X	X			X	X

Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-74	LMR11-74-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-74-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-74-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-74-048FS	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-74-072	Vibracore	48 - 72	8/5/2011	X	X			X	X
	LMR11-74-085	Vibracore	72 - 85	8/5/2011	X	X			X	X
LMR11-75	LMR11-75-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-75-024	Vibracore	6 - 24	8/5/2011	X	X	X	X	X	X
	LMR11-75-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-75-048FS	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-75-080	Vibracore	48 - 80	8/5/2011	X	X			X	X
LMR11-76	LMR11-76-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-76-024	Vibracore	6 - 24	8/5/2011	X	X	X	X	X	X
	LMR11-76-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-76-072	Vibracore	48 - 72	8/5/2011	X	X			X	X
	LMR11-76-096	Vibracore	72 - 96	8/5/2011	X	X			X	X
	LMR11-76-120	Vibracore	96 - 120	8/5/2011	X	X			X	X
LMR11-77	LMR11-77-006	Vibracore	0 - 6	8/5/2011	X	X				X
	LMR11-77-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-77-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-77-072	Vibracore	48 - 72	8/5/2011	X	X			X	X
	LMR11-77-120	Vibracore	72 - 120	8/5/2011	X	X			X	X
LMR11-78	LMR11-78-014	Vibracore	0 - 14	8/5/2011	X	X			X	X
LMR11-79	LMR11-79-006	Vibracore	0 - 6	8/4/2011	X	X			X	X
	LMR11-79-024	Vibracore	6 - 24	8/4/2011	X	X	X	X	X	X
	LMR11-79-024FS	Vibracore	6 - 24	8/4/2011	X	X	X	X	X	X
	LMR11-79-054	Vibracore	24 - 54	8/4/2011	X	X			X	X
LMR11-80	LMR11-80-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-80-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-80-056	Vibracore	24 - 56	8/5/2011	X	X			X	X
LMR11-81	LMR11-81-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-81-019	Vibracore	6 - 19	8/5/2011	X	X			X	X
LMR11-82	LMR11-82-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-82-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-82-055	Vibracore	24 - 55	8/5/2011	X	X			X	X
LMR11-83	LMR11-83-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-83-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-83-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-83-072	Vibracore	48 - 72	8/5/2011	X	X			X	X
	LMR11-83-087	Vibracore	72 - 87	8/5/2011	X	X			X	X
LMR11-84	LMR11-84-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-84-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-84-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-84-072	Vibracore	48 - 72	8/5/2011	X	X			X	X
	LMR11-84-072DP	Vibracore	48 - 72	8/5/2011	X	X				X
	LMR11-84-096	Vibracore	72 - 96	8/5/2011	X	X			X	X
	LMR11-84-115	Vibracore	96 - 115	8/5/2011	X	X			X	X

**Table 2-2
Sampling and Analysis Summary
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Location ID	Field Sample ID	Sample Collection Device	Depth (inches bss)	Sampling Date	Analyses					
					SVOCs	TAL Metals	PCB Aroclors	TCL Pesticides	Grain Size	TOC
LMR11-85	LMR11-85-006	Vibracore	0 - 6	8/5/2011	X	X			X	X
	LMR11-85-024	Vibracore	6 - 24	8/5/2011	X	X			X	X
	LMR11-85-048	Vibracore	24 - 48	8/5/2011	X	X			X	X
	LMR11-85-074	Vibracore	48 - 74	8/5/2011	X	X			X	X
Total number of samples analyzed:					337	337	33	33	318	337

Notes:

bss - Below sediment surface

DP - Duplicate

FS - Field split

ID - Identification

PCB - Polychlorinated biphenyl

SVOC - Semivolatile organic compound

TOC - Total organic carbon

TAL - Target Analyte List

TCL - Target Compound List

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
1,1'-Biphenyl	0-6	88	1	1%	390	390	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	1	6%	31	31	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
1,2,4,5-Tetrachlorobenzene	0-6	88	0	0%	--	--	NL	--	1,252	--
	6-24	79	0	0%	--	--	NL	--	1,252	--
	24-48	71	0	0%	--	--	NL	--	1,252	--
	48-72	48	0	0%	--	--	NL	--	1,252	--
	72-96	29	0	0%	--	--	NL	--	1,252	--
	96-120	17	0	0%	--	--	NL	--	1,252	--
	120-144	3	0	0%	--	--	NL	--	1,252	--
	144 - 168	2	0	0%	--	--	NL	--	1,252	--
2,2'-Oxybis(1-chloropropane)	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
2,3,4,6-Tetrachlorophenol	0-6	88	0	0%	--	--	NL	--	129	--
	6-24	79	0	0%	--	--	NL	--	129	--
	24-48	71	0	0%	--	--	NL	--	129	--
	48-72	48	0	0%	--	--	NL	--	129	--
	72-96	29	0	0%	--	--	NL	--	129	--
	96-120	17	0	0%	--	--	NL	--	129	--
	120-144	3	0	0%	--	--	NL	--	129	--
	144 - 168	2	0	0%	--	--	NL	--	129	--
2,4,5-Trichlorophenol	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
2,4,6-Trichlorophenol	0-6	88	0	0%	--	--	NL	--	208	--
	6-24	79	0	0%	--	--	NL	--	208	--
	24-48	71	0	0%	--	--	NL	--	208	--
	48-72	48	0	0%	--	--	NL	--	208	--
	72-96	29	0	0%	--	--	NL	--	208	--
	96-120	17	0	0%	--	--	NL	--	208	--
	120-144	3	0	0%	--	--	NL	--	208	--
	144 - 168	2	0	0%	--	--	NL	--	208	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
2,4-Dichlorophenol	0-6	88	0	0%	--	--	NL	--	81.7	--
	6-24	79	0	0%	--	--	NL	--	81.7	--
	24-48	71	0	0%	--	--	NL	--	81.7	--
	48-72	48	0	0%	--	--	NL	--	81.7	--
	72-96	29	0	0%	--	--	NL	--	81.7	--
	96-120	17	0	0%	--	--	NL	--	81.7	--
	120-144	3	0	0%	--	--	NL	--	81.7	--
	144 - 168	2	0	0%	--	--	NL	--	81.7	--
2,4-Dimethylphenol	0-6	88	0	0%	--	--	NL	--	304	--
	6-24	79	0	0%	--	--	NL	--	304	--
	24-48	71	0	0%	--	--	NL	--	304	--
	48-72	48	0	0%	--	--	NL	--	304	--
	72-96	29	0	0%	--	--	NL	--	304	--
	96-120	17	0	0%	--	--	NL	--	304	--
	120-144	3	0	0%	--	--	NL	--	304	--
	144 - 168	2	0	0%	--	--	NL	--	304	--
2,4-Dinitrophenol	0-6	88	0	0%	--	--	NL	--	6.21	--
	6-24	79	0	0%	--	--	NL	--	6.21	--
	24-48	71	0	0%	--	--	NL	--	6.21	--
	48-72	48	0	0%	--	--	NL	--	6.21	--
	72-96	29	0	0%	--	--	NL	--	6.21	--
	96-120	17	0	0%	--	--	NL	--	6.21	--
	120-144	3	0	0%	--	--	NL	--	6.21	--
	144 - 168	2	0	0%	--	--	NL	--	6.21	--
2,4-Dinitrotoluene	0-6	88	0	0%	--	--	NL	--	14.4	--
	6-24	79	0	0%	--	--	NL	--	14.4	--
	24-48	71	0	0%	--	--	NL	--	14.4	--
	48-72	48	0	0%	--	--	NL	--	14.4	--
	72-96	29	0	0%	--	--	NL	--	14.4	--
	96-120	17	0	0%	--	--	NL	--	14.4	--
	120-144	3	0	0%	--	--	NL	--	14.4	--
	144 - 168	2	0	0%	--	--	NL	--	14.4	--
2,6-Dinitrotoluene	0-6	88	0	0%	--	--	NL	--	39.8	--
	6-24	79	0	0%	--	--	NL	--	39.8	--
	24-48	71	0	0%	--	--	NL	--	39.8	--
	48-72	48	0	0%	--	--	NL	--	39.8	--
	72-96	29	0	0%	--	--	NL	--	39.8	--
	96-120	17	0	0%	--	--	NL	--	39.8	--
	120-144	3	0	0%	--	--	NL	--	39.8	--
	144 - 168	2	0	0%	--	--	NL	--	39.8	--
2-Chloronaphthalene	0-6	88	0	0%	--	--	NL	--	417	--
	6-24	79	0	0%	--	--	NL	--	417	--
	24-48	71	0	0%	--	--	NL	--	417	--
	48-72	48	0	0%	--	--	NL	--	417	--
	72-96	29	0	0%	--	--	NL	--	417	--
	96-120	17	0	0%	--	--	NL	--	417	--
	120-144	3	0	0%	--	--	NL	--	417	--
	144 - 168	2	0	0%	--	--	NL	--	417	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
2-Chlorophenol	0-6	88	0	0%	--	--	NL	--	31.9	--
	6-24	79	0	0%	--	--	NL	--	31.9	--
	24-48	71	0	0%	--	--	NL	--	31.9	--
	48-72	48	0	0%	--	--	NL	--	31.9	--
	72-96	29	0	0%	--	--	NL	--	31.9	--
	96-120	17	0	0%	--	--	NL	--	31.9	--
	120-144	3	0	0%	--	--	NL	--	31.9	--
	144 - 168	2	0	0%	--	--	NL	--	31.9	--
2-Methylnaphthalene	0-6	88	10	11%	3.6	1400	NL	--	20.2	4
	6-24	79	18	23%	3.3	200	NL	--	20.2	4
	24-48	71	20	28%	2.9	150	NL	--	20.2	4
	48-72	48	16	33%	3.7	580	NL	--	20.2	3
	72-96	29	15	52%	2.8	660	NL	--	20.2	4
	96-120	17	6	35%	5.1	690	NL	--	20.2	3
	120-144	3	2	67%	6.2	9.8	NL	--	20.2	0
	144 - 168	2	2	100%	12	220	NL	--	20.2	1
2-Methylphenol	0-6	88	0	0%	--	--	NL	--	55.4	--
	6-24	79	0	0%	--	--	NL	--	55.4	--
	24-48	71	0	0%	--	--	NL	--	55.4	--
	48-72	48	0	0%	--	--	NL	--	55.4	--
	72-96	29	0	0%	--	--	NL	--	55.4	--
	96-120	17	1	6%	51	51	NL	--	55.4	0
	120-144	3	0	0%	--	--	NL	--	55.4	--
	144 - 168	2	0	0%	--	--	NL	--	55.4	--
2-Nitroaniline	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
2-Nitrophenol	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
3,3'-Dichlorobenzidine	0-6	88	0	0%	--	--	NL	--	127	--
	6-24	79	0	0%	--	--	NL	--	127	--
	24-48	71	0	0%	--	--	NL	--	127	--
	48-72	48	0	0%	--	--	NL	--	127	--
	72-96	29	0	0%	--	--	NL	--	127	--
	96-120	17	0	0%	--	--	NL	--	127	--
	120-144	3	0	0%	--	--	NL	--	127	--
	144 - 168	2	0	0%	--	--	NL	--	127	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
3-Nitroaniline	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
4,6-Dinitro-2-methylphenol	0-6	88	0	0%	--	--	NL	--	104	--
	6-24	79	0	0%	--	--	NL	--	104	--
	24-48	71	0	0%	--	--	NL	--	104	--
	48-72	48	0	0%	--	--	NL	--	104	--
	72-96	29	0	0%	--	--	NL	--	104	--
	96-120	17	0	0%	--	--	NL	--	104	--
	120-144	3	0	0%	--	--	NL	--	104	--
	144 - 168	2	0	0%	--	--	NL	--	104	--
4-Bromophenyl-phenylether	0-6	88	0	0%	--	--	NL	--	1,550	--
	6-24	79	0	0%	--	--	NL	--	1,550	--
	24-48	71	0	0%	--	--	NL	--	1,550	--
	48-72	48	0	0%	--	--	NL	--	1,550	--
	72-96	29	0	0%	--	--	NL	--	1,550	--
	96-120	17	0	0%	--	--	NL	--	1,550	--
	120-144	3	0	0%	--	--	NL	--	1,550	--
	144 - 168	2	0	0%	--	--	NL	--	1,550	--
4-Chloro-3-methylphenol	0-6	88	0	0%	--	--	NL	--	388	--
	6-24	79	0	0%	--	--	NL	--	388	--
	24-48	71	0	0%	--	--	NL	--	388	--
	48-72	48	0	0%	--	--	NL	--	388	--
	72-96	29	0	0%	--	--	NL	--	388	--
	96-120	17	0	0%	--	--	NL	--	388	--
	120-144	3	0	0%	--	--	NL	--	388	--
	144 - 168	2	0	0%	--	--	NL	--	388	--
4-Chloroaniline	0-6	88	1	1%	44	44	NL	--	146	0
	6-24	79	0	0%	--	--	NL	--	146	--
	24-48	71	0	0%	--	--	NL	--	146	--
	48-72	48	0	0%	--	--	NL	--	146	--
	72-96	29	0	0%	--	--	NL	--	146	--
	96-120	17	0	0%	--	--	NL	--	146	--
	120-144	3	0	0%	--	--	NL	--	146	--
	144 - 168	2	0	0%	--	--	NL	--	146	--
4-Chlorophenyl-phenylether	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
4-Methylphenol	0-6	88	15	17%	30	110	NL	--	20.2	15
	6-24	79	9	11%	38	140	NL	--	20.2	9
	24-48	71	11	15%	30	130	NL	--	20.2	11
	48-72	48	7	15%	34	90	NL	--	20.2	7
	72-96	29	4	14%	32	120	NL	--	20.2	4
	96-120	17	3	18%	64	480	NL	--	20.2	3
	120-144	3	1	33%	51	51	NL	--	20.2	1
	144 - 168	2	2	100%	51	850	NL	--	20.2	2
4-Nitroaniline	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
4-Nitrophenol	0-6	88	0	0%	--	--	NL	--	13.3	--
	6-24	79	0	0%	--	--	NL	--	13.3	--
	24-48	71	0	0%	--	--	NL	--	13.3	--
	48-72	48	0	0%	--	--	NL	--	13.3	--
	72-96	29	0	0%	--	--	NL	--	13.3	--
	96-120	17	0	0%	--	--	NL	--	13.3	--
	120-144	3	0	0%	--	--	NL	--	13.3	--
	144 - 168	2	0	0%	--	--	NL	--	13.3	--
Acenaphthene	0-6	88	9	10%	3.5	13,000	NL	--	6.71	7
	6-24	79	16	20%	2.9	89	NL	--	6.71	6
	24-48	71	13	18%	2.8	88	NL	--	6.71	5
	48-72	48	11	23%	4.9	60	NL	--	6.71	7
	72-96	29	13	45%	3	190	NL	--	6.71	6
	96-120	17	6	35%	3.1	58	NL	--	6.71	3
	120-144	3	1	33%	3.7	3.7	NL	--	6.71	0
	144 - 168	2	2	100%	3.1	26	NL	--	6.71	1
Acenaphthylene	0-6	88	10	11%	3.8	2,700	NL	--	5.87	7
	6-24	79	15	19%	2.7	9.9	NL	--	5.87	8
	24-48	71	17	24%	3.1	34	NL	--	5.87	12
	48-72	48	11	23%	4	41	NL	--	5.87	6
	72-96	29	12	41%	2.7	52	NL	--	5.87	6
	96-120	17	7	41%	3.3	29	NL	--	5.87	4
	120-144	3	0	0%	--	--	NL	--	5.87	--
	144 - 168	2	1	50%	11	11	NL	--	5.87	1
Acetophenone	0-6	88	1	1%	51	51	NL	--	NL	--
	6-24	79	1	1%	70	70	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	1	6%	62	62	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Anthracene	0-6	88	23	26%	3.1	21,000	845	2	57.2	4
	6-24	79	29	37%	3.3	70	845	0	57.2	1
	24-48	71	26	37%	3.7	62	845	0	57.2	1
	48-72	48	21	44%	3.4	76	845	0	57.2	3
	72-96	29	18	62%	3.7	210	845	0	57.2	3
	96-120	17	11	65%	3.7	93	845	0	57.2	1
	120-144	3	2	67%	5.7	6.8	845	0	57.2	0
	144 - 168	2	2	100%	5.1	97	845	0	57.2	1
Atrazine	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Benzaldehyde	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Benzo(a)anthracene	0-6	88	51	58%	3.1	22,000	1,050	2	108	4
	6-24	79	53	67%	3.6	330	1,050	0	108	1
	24-48	71	48	68%	3.3	160	1,050	0	108	2
	48-72	48	33	69%	3.2	290	1,050	0	108	3
	72-96	29	22	76%	5.9	670	1,050	0	108	4
	96-120	17	13	76%	6.2	200	1,050	0	108	1
	120-144	3	3	100%	11	17	1,050	0	108	0
	144 - 168	2	2	100%	10	180	1,050	0	108	1
Benzo(a)pyrene	0-6	88	58	66%	4.4	14,000	1,450	2	150	3
	6-24	79	54	68%	2.8	280	1,450	0	150	1
	24-48	71	47	66%	3.8	160	1,450	0	150	1
	48-72	48	32	67%	4.3	240	1,450	0	150	1
	72-96	29	22	76%	6.1	540	1,450	0	150	3
	96-120	17	12	71%	8.8	160	1,450	0	150	1
	120-144	3	3	100%	14	22	1,450	0	150	0
	144 - 168	2	2	100%	11	140	1,450	0	150	0
Benzo(b)fluoranthene	0-6	88	58	66%	3.1	17,000	NL	--	10,400	2
	6-24	79	61	77%	4	440	NL	--	10,400	0
	24-48	71	48	68%	4.2	190	NL	--	10,400	0
	48-72	48	35	73%	4	320	NL	--	10,400	0
	72-96	29	26	90%	6.2	710	NL	--	10,400	0
	96-120	17	13	76%	9.7	220	NL	--	10,400	0
	120-144	3	3	100%	13	28	NL	--	10,400	0
	144 - 168	2	2	100%	16	210	NL	--	10,400	0

**Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Benzo(g,h,i)perylene	0-6	88	29	33%	3.4	5,800	NL	--	170	2
	6-24	79	38	48%	2.7	180	NL	--	170	1
	24-48	71	33	46%	4.8	120	NL	--	170	0
	48-72	48	27	56%	4.5	110	NL	--	170	0
	72-96	29	19	66%	5	360	NL	--	170	2
	96-120	17	11	65%	4.4	94	NL	--	170	0
	120-144	3	3	100%	6.6	12	NL	--	170	0
	144 - 168	2	2	100%	7.3	92	NL	--	170	0
Benzo(k)fluoranthene	0-6	88	34	39%	3.1	11,000	NL	--	240	2
	6-24	79	36	46%	3	150	NL	--	240	0
	24-48	71	37	52%	2.9	72	NL	--	240	0
	48-72	48	25	52%	3.6	110	NL	--	240	0
	72-96	29	19	66%	5.4	330	NL	--	240	1
	96-120	17	12	71%	4.8	60	NL	--	240	0
	120-144	3	2	67%	7.4	9	NL	--	240	0
	144 - 168	2	2	100%	5.7	72	NL	--	240	0
Bis(2-chloroethoxy)methane	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Bis(2-chloroethyl)ether	0-6	88	0	0%	--	--	NL	--	3,520	--
	6-24	79	0	0%	--	--	NL	--	3,520	--
	24-48	71	0	0%	--	--	NL	--	3,520	--
	48-72	48	0	0%	--	--	NL	--	3,520	--
	72-96	29	0	0%	--	--	NL	--	3,520	--
	96-120	17	0	0%	--	--	NL	--	3,520	--
	120-144	3	0	0%	--	--	NL	--	3,520	--
	144 - 168	2	0	0%	--	--	NL	--	3,520	--
Bis(2-ethylhexyl)phthalate	0-6	88	8	9%	45	1,500	NL	--	182	1
	6-24	79	12	15%	36	260	NL	--	182	2
	24-48	71	8	11%	43	230	NL	--	182	2
	48-72	48	4	8%	49	1,100	NL	--	182	1
	72-96	29	2	7%	38	200	NL	--	182	1
	96-120	17	3	18%	33	130	NL	--	182	0
	120-144	3	0	0%	--	--	NL	--	182	--
	144 - 168	2	1	50%	190	190	NL	--	182	1
Butylbenzylphthalate	0-6	88	1	1%	7,100	7,100	NL	--	1,970	1
	6-24	79	0	0%	--	--	NL	--	1,970	--
	24-48	71	0	0%	--	--	NL	--	1,970	--
	48-72	48	0	0%	--	--	NL	--	1,970	--
	72-96	29	0	0%	--	--	NL	--	1,970	--
	96-120	17	0	0%	--	--	NL	--	1,970	--
	120-144	3	0	0%	--	--	NL	--	1,970	--
	144 - 168	2	0	0%	--	--	NL	--	1,970	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Caprolactam	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	1	1%	130	130	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	1	2%	98	98	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Carbazole	0-6	88	2	2%	880	2000	NL	--	NL	--
	6-24	79	1	1%	88	88	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	1	2%	85	85	NL	--	NL	--
	72-96	29	2	7%	64	200	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Chrysene	0-6	88	60	68%	3.2	23,000	1,290	2	166	3
	6-24	79	62	78%	3.6	340	1,290	0	166	1
	24-48	71	53	75%	3.8	180	1,290	0	166	1
	48-72	48	35	73%	4.2	270	1,290	0	166	2
	72-96	29	26	90%	5.6	640	1,290	0	166	2
	96-120	17	14	82%	5.2	200	1,290	0	166	1
	120-144	3	3	100%	12	17	1,290	0	166	0
	144 - 168	2	2	100%	12	220	1,290	0	166	1
Dibenzo(a,h)anthracene	0-6	88	13	15%	2.8	1,900	NL	--	33	3
	6-24	79	15	19%	3.4	50	NL	--	33	1
	24-48	71	18	25%	3.3	41	NL	--	33	1
	48-72	48	12	25%	3.5	39	NL	--	33	1
	72-96	29	11	38%	5	80	NL	--	33	3
	96-120	17	6	35%	3.9	39	NL	--	33	1
	120-144	3	1	33%	3.7	3.7	NL	--	33	0
	144 - 168	2	1	50%	33	33	NL	--	33	0
Dibenzofuran	0-6	88	3	3%	74	3,200	NL	--	449	1
	6-24	79	0	0%	--	--	NL	--	449	--
	24-48	71	1	1%	29	29	NL	--	449	0
	48-72	48	2	4%	33	160	NL	--	449	0
	72-96	29	2	7%	50	230	NL	--	449	0
	96-120	17	2	12%	55	92	NL	--	449	0
	120-144	3	0	0%	--	--	NL	--	449	--
	144 - 168	2	1	50%	83	83	NL	--	449	0
Diethylphthalate	0-6	88	0	0%	--	--	NL	--	295	--
	6-24	79	0	0%	--	--	NL	--	295	--
	24-48	71	0	0%	--	--	NL	--	295	--
	48-72	48	0	0%	--	--	NL	--	295	--
	72-96	29	0	0%	--	--	NL	--	295	--
	96-120	17	0	0%	--	--	NL	--	295	--
	120-144	3	0	0%	--	--	NL	--	295	--
	144 - 168	2	0	0%	--	--	NL	--	295	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Dimethylphthalate	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Di-n-butylphthalate	0-6	88	3	3%	39	500	NL	--	1,114	0
	6-24	79	3	4%	34	82	NL	--	1,114	0
	24-48	71	2	3%	85	130	NL	--	1,114	0
	48-72	48	1	2%	210	210	NL	--	1,114	0
	72-96	29	1	3%	65	65	NL	--	1,114	0
	96-120	17	0	0%	--	--	NL	--	1,114	--
	120-144	3	0	0%	--	--	NL	--	1,114	--
	144 - 168	2	0	0%	--	--	NL	--	1,114	--
Di-n-octylphthalate	0-6	88	1	1%	470	470	NL	--	40,600	0
	6-24	79	1	1%	82	82	NL	--	40,600	0
	24-48	71	0	0%	--	--	NL	--	40,600	--
	48-72	48	0	0%	--	--	NL	--	40,600	--
	72-96	29	0	0%	--	--	NL	--	40,600	--
	96-120	17	0	0%	--	--	NL	--	40,600	--
	120-144	3	0	0%	--	--	NL	--	40,600	--
	144 - 168	2	0	0%	--	--	NL	--	40,600	--
Fluoranthene	0-6	88	80	91%	3.4	59,000	2,230	2	423	3
	6-24	79	75	95%	3.8	940	2,230	0	423	1
	24-48	71	64	90%	2.6	320	2,230	0	423	0
	48-72	48	41	85%	2.9	690	2,230	0	423	1
	72-96	29	27	93%	8	1,700	2,230	0	423	2
	96-120	17	14	82%	5.2	530	2,230	0	423	1
	120-144	3	3	100%	21	29	2,230	0	423	0
	144 - 168	2	2	100%	22	450	2,230	0	423	1
Fluorene	0-6	88	12	14%	2.5	14,000	536	1	77.4	3
	6-24	79	17	22%	3.8	57	536	0	77.4	0
	24-48	71	19	27%	3.7	46	536	0	77.4	0
	48-72	48	14	29%	4.5	87	536	0	77.4	1
	72-96	29	16	55%	3	190	536	0	77.4	2
	96-120	17	7	41%	2.6	71	536	0	77.4	0
	120-144	3	1	33%	3.8	3.8	536	0	77.4	0
	144 - 168	2	2	100%	3.7	48	536	0	77.4	0
Hexachlorobenzene	0-6	88	0	0%	--	--	NL	--	20	--
	6-24	79	0	0%	--	--	NL	--	20	--
	24-48	71	0	0%	--	--	NL	--	20	--
	48-72	48	0	0%	--	--	NL	--	20	--
	72-96	29	0	0%	--	--	NL	--	20	--
	96-120	17	0	0%	--	--	NL	--	20	--
	120-144	3	0	0%	--	--	NL	--	20	--
	144 - 168	2	0	0%	--	--	NL	--	20	--

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Hexachlorobutadiene	0-6	88	0	0%	--	--	NL	--	26.5	--
	6-24	79	0	0%	--	--	NL	--	26.5	--
	24-48	71	0	0%	--	--	NL	--	26.5	--
	48-72	48	0	0%	--	--	NL	--	26.5	--
	72-96	29	0	0%	--	--	NL	--	26.5	--
	96-120	17	0	0%	--	--	NL	--	26.5	--
	120-144	3	0	0%	--	--	NL	--	26.5	--
	144 - 168	2	0	0%	--	--	NL	--	26.5	--
Hexachlorocyclopentadiene	0-6	88	0	0%	--	--	NL	--	901	--
	6-24	79	0	0%	--	--	NL	--	901	--
	24-48	71	0	0%	--	--	NL	--	901	--
	48-72	48	0	0%	--	--	NL	--	901	--
	72-96	29	0	0%	--	--	NL	--	901	--
	96-120	17	0	0%	--	--	NL	--	901	--
	120-144	3	0	0%	--	--	NL	--	901	--
	144 - 168	2	0	0%	--	--	NL	--	901	--
Hexachloroethane	0-6	88	0	0%	--	--	NL	--	584	--
	6-24	79	0	0%	--	--	NL	--	584	--
	24-48	71	0	0%	--	--	NL	--	584	--
	48-72	48	0	0%	--	--	NL	--	584	--
	72-96	29	0	0%	--	--	NL	--	584	--
	96-120	17	0	0%	--	--	NL	--	584	--
	120-144	3	0	0%	--	--	NL	--	584	--
	144 - 168	2	0	0%	--	--	NL	--	584	--
Indeno(1,2,3-cd)pyrene	0-6	88	32	36%	2.7	6,200	NL	--	200	2
	6-24	79	36	46%	3.1	170	NL	--	200	0
	24-48	71	34	48%	2.7	81	NL	--	200	0
	48-72	48	25	52%	4.1	110	NL	--	200	0
	72-96	29	19	66%	6	340	NL	--	200	1
	96-120	17	11	65%	4.9	84	NL	--	200	0
	120-144	3	2	67%	6.1	11	NL	--	200	0
	144 - 168	2	2	100%	6.6	80	NL	--	200	0
Isophorone	0-6	88	0	0%	--	--	NL	--	432	--
	6-24	79	0	0%	--	--	NL	--	432	--
	24-48	71	0	0%	--	--	NL	--	432	--
	48-72	48	0	0%	--	--	NL	--	432	--
	72-96	29	0	0%	--	--	NL	--	432	--
	96-120	17	0	0%	--	--	NL	--	432	--
	120-144	3	0	0%	--	--	NL	--	432	--
	144 - 168	2	0	0%	--	--	NL	--	432	--
Naphthalene	0-6	88	19	22%	3.4	3,700	561	1	176	1
	6-24	78	20	26%	4.1	110	561	0	176	0
	24-48	71	25	35%	3.3	140	561	0	176	0
	48-72	48	20	42%	4	350	561	0	176	1
	72-96	29	19	66%	3.7	570	561	1	176	1
	96-120	17	9	53%	4.7	360	561	0	176	1
	120-144	3	3	100%	5.7	7	561	0	176	0
	144 - 168	2	2	100%	10	170	561	0	176	0

Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Nitrobenzene	0-6	88	0	0%	--	--	NL	--	145	--
	6-24	79	0	0%	--	--	NL	--	145	--
	24-48	71	0	0%	--	--	NL	--	145	--
	48-72	48	0	0%	--	--	NL	--	145	--
	72-96	29	0	0%	--	--	NL	--	145	--
	96-120	17	0	0%	--	--	NL	--	145	--
	120-144	3	0	0%	--	--	NL	--	145	--
	144 - 168	2	0	0%	--	--	NL	--	145	--
N-Nitroso-di-n-propylamine	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
N-Nitrosodiphenylamine	0-6	88	0	0%	--	--	NL	--	NL	--
	6-24	79	0	0%	--	--	NL	--	NL	--
	24-48	71	0	0%	--	--	NL	--	NL	--
	48-72	48	0	0%	--	--	NL	--	NL	--
	72-96	29	0	0%	--	--	NL	--	NL	--
	96-120	17	0	0%	--	--	NL	--	NL	--
	120-144	3	0	0%	--	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--
Pentachlorophenol	0-6	88	0	0%	--	--	NL	--	23,000	--
	6-24	79	0	0%	--	--	NL	--	23,000	--
	24-48	71	0	0%	--	--	NL	--	23,000	--
	48-72	48	1	2%	13	13	NL	--	23,000	0
	72-96	29	0	0%	--	--	NL	--	23,000	--
	96-120	17	0	0%	--	--	NL	--	23,000	--
	120-144	3	0	0%	--	--	NL	--	23,000	--
	144 - 168	2	0	0%	--	--	NL	--	23,000	--
Phenanthrene	0-6	88	63	72%	2.8	38000	1,170	2	204	4
	6-24	79	74	94%	2.6	440	1,170	0	204	2
	24-48	71	63	89%	3	280	1,170	0	204	2
	48-72	48	40	83%	4.2	930	1,170	0	204	3
	72-96	29	26	90%	8.8	1600	1,170	1	204	3
	96-120	17	15	88%	4.2	460	1,170	0	204	3
	120-144	3	3	100%	14	28	1,170	0	204	0
	144 - 168	2	2	100%	21	430	1,170	0	204	1
Phenol	0-6	88	1	1%	51	51	NL	--	49.1	1
	6-24	79	0	0%	--	--	NL	--	49.1	--
	24-48	71	0	0%	--	--	NL	--	49.1	--
	48-72	48	0	0%	--	--	NL	--	49.1	--
	72-96	29	0	0%	--	--	NL	--	49.1	--
	96-120	17	0	0%	--	--	NL	--	49.1	--
	120-144	3	0	0%	--	--	NL	--	49.1	--
	144 - 168	2	0	0%	--	--	NL	--	49.1	--

**Table 3-1
Summary of SVOC Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Pyrene	0-6	88	83	94%	3.3	45,000	1,520	2	195	4
	6-24	79	77	97%	3	790	1,520	0	195	1
	24-48	71	66	93%	2.9	290	1,520	0	195	2
	48-72	48	40	83%	3.1	400	1,520	0	195	4
	72-96	29	28	97%	9.6	1,200	1,520	0	195	3
	96-120	17	15	88%	4.7	430	1,520	0	195	1
	120-144	3	3	100%	22	28	1,520	0	195	0
	144 - 168	2	2	100%	18	380	1,520	0	195	1
Total PAH 17 ³	0-6	88	88	100%	19.55	297,600	22,800	2	NL	--
	6-24	79	79	100%	22.1	4,388.30	22,800	0	NL	--
	24-48	71	71	100%	21.25	2,037	22,800	0	NL	--
	48-72	48	48	100%	19.55	4,030.35	22,800	0	NL	--
	72-96	29	29	100%	42.5	9,952.55	22,800	0	NL	--
	96-120	17	17	100%	24.65	2,800	22,800	0	NL	--
	120-144	3	3	100%	144.4	229.6	22,800	0	NL	--
	144 - 168	2	2	100%	166.5	2,859	22,800	0	NL	--

- Notes:
- % - Percent
 - "--" - Not applicable
 - µg/kg - Microgram per kilogram
 - bss - Below sediment surface
 - ESL - Ecological Screening Level
 - NL - Not listed
 - PEC - Probable Effect Concentration
 - SRV - Sediment Reference Value
- 1 From "Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems" (MacDonald, et. al., 2000)
 - 2 From U.S. Environmental Protection Agency Region 5 Ecological Screening Levels, 2003
 - 3 Total PAH 17 - Calculated as sum of detections plus one-half the detection limit for nondetected results

Table 3-2
Summary of TAL Metals Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PEC ¹ (mg/kg)	No. of Results Above PEC	ESL ² (mg/kg)	No. of Results Above ESL	SRV ³ (mg/kg)	No. of Results Above SRV
Aluminum	0 - 6	88	88	100%	3,020	24,900	NL	--	NL	--	42,000	0
	6 - 24	79	79	100%	2,100	27,100	NL	--	NL	--	42,000	0
	24 - 48	71	71	100%	4,110	27,800	NL	--	NL	--	42,000	0
	48 - 72	48	48	100%	2,940	27,800	NL	--	NL	--	42,000	0
	72 - 96	29	29	100%	4,040	29,300	NL	--	NL	--	42,000	0
	96 - 120	17	17	100%	5,230	24,200	NL	--	NL	--	42,000	0
	120 - 144	3	3	100%	15,700	17,000	NL	--	NL	--	42,000	0
	144 - 168	2	2	100%	14,500	14,600	NL	--	NL	--	42,000	0
Antimony	0 - 6	88	15	17%	0.25	0.91	NL	--	NL	--	0.84	2
	6 - 24	79	9	11%	0.23	1.3	NL	--	NL	--	0.84	3
	24 - 48	71	12	17%	0.24	1.1	NL	--	NL	--	0.84	2
	48 - 72	48	5	10%	0.38	0.93	NL	--	NL	--	0.84	2
	72 - 96	29	3	10%	0.31	1	NL	--	NL	--	0.84	2
	96 - 120	17	3	18%	0.38	0.8	NL	--	NL	--	0.84	0
	120 - 144	3	0	0%	--	--	NL	--	NL	--	0.84	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--	0.84	--
Arsenic	0 - 6	88	88	100%	2.3	45.4	33	2	9.79	28	11	14
	6 - 24	79	79	100%	1.7	25.4	33	0	9.79	39	11	27
	24 - 48	71	71	100%	2.6	40.5	33	1	9.79	44	11	26
	48 - 72	48	48	100%	2.8	63.2	33	1	9.79	38	11	23
	72 - 96	29	29	100%	3.2	33.1	33	1	9.79	24	11	19
	96 - 120	17	17	100%	4.3	29.9	33	0	9.79	10	11	10
	120 - 144	3	3	100%	13.1	15.8	33	0	9.79	3	11	3
	144 - 168	2	2	100%	10.8	13.9	33	0	9.79	2	11	1
Barium	0 - 6	88	86	98%	27.4	265	NL	--	NL	--	210	1
	6 - 24	79	75	95%	22.2	305	NL	--	NL	--	210	1
	24 - 48	71	71	100%	28	840	NL	--	NL	--	210	1
	48 - 72	48	47	98%	26.1	179	NL	--	NL	--	210	0
	72 - 96	29	29	100%	27.9	185	NL	--	NL	--	210	0
	96 - 120	17	17	100%	32.8	174	NL	--	NL	--	210	0
	120 - 144	3	3	100%	122	181	NL	--	NL	--	210	0
	144 - 168	2	2	100%	116	187	NL	--	NL	--	210	0

Table 3-2
Summary of TAL Metals Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PEC ¹ (mg/kg)	No. of Results Above PEC	ESL ² (mg/kg)	No. of Results Above ESL	SRV ³ (mg/kg)	No. of Results Above SRV
Beryllium	0 - 6	88	42	48%	0.44	1.3	NL	--	NL	--	NL	--
	6 - 24	79	59	75%	0.51	1.2	NL	--	NL	--	NL	--
	24 - 48	71	51	72%	0.44	1.2	NL	--	NL	--	NL	--
	48 - 72	48	34	71%	0.53	1.1	NL	--	NL	--	NL	--
	72 - 96	29	18	62%	0.53	1.2	NL	--	NL	--	NL	--
	96 - 120	17	10	59%	0.55	1.1	NL	--	NL	--	NL	--
	120 - 144	3	3	100%	0.73	1	NL	--	NL	--	NL	--
	144 - 168	2	2	100%	0.67	0.84	NL	--	NL	--	NL	--
Cadmium	0 - 6	88	81	92%	0.49	5.2	4.98	1	0.99	71	0.96	72
	6 - 24	79	73	92%	0.66	7.2	4.98	2	0.99	67	0.96	67
	24 - 48	71	69	97%	0.5	6.5	4.98	2	0.99	62	0.96	62
	48 - 72	48	45	94%	0.41	7	4.98	1	0.99	43	0.96	43
	72 - 96	29	28	97%	0.61	5	4.98	1	0.99	25	0.96	25
	96 - 120	17	17	100%	0.46	6.4	4.98	2	0.99	13	0.96	13
	120 - 144	3	3	100%	3	5.7	4.98	1	0.99	3	0.96	3
	144 - 168	2	2	100%	3.5	3.6	4.98	0	0.99	2	0.96	2
Calcium	0 - 6	88	88	100%	22,700	204,000	NL	--	NL	--	110,000	1
	6 - 24	79	79	100%	23,300	99,900	NL	--	NL	--	110,000	0
	24 - 48	71	71	100%	24,800	221,000	NL	--	NL	--	110,000	1
	48 - 72	48	48	100%	31,400	77,200	NL	--	NL	--	110,000	0
	72 - 96	29	29	100%	28,600	68,500	NL	--	NL	--	110,000	0
	96 - 120	17	17	100%	33,100	71,500	NL	--	NL	--	110,000	0
	120 - 144	3	3	100%	34,000	66,400	NL	--	NL	--	110,000	0
	144 - 168	2	2	100%	33,800	35,400	NL	--	NL	--	110,000	0
Chromium	0 - 6	88	88	100%	7.1	77.8	111	0	43.4	5	51	2
	6 - 24	79	79	100%	5.2	56.8	111	0	43.4	6	51	5
	24 - 48	71	71	100%	8.3	59.9	111	0	43.4	5	51	3
	48 - 72	48	48	100%	6.5	136	111	1	43.4	2	51	2
	72 - 96	29	29	100%	7.7	63.4	111	0	43.4	4	51	1
	96 - 120	17	17	100%	9	44.8	111	0	43.4	2	51	0
	120 - 144	3	3	100%	30.5	53.1	111	0	43.4	1	51	1
	144 - 168	2	2	100%	25.7	36.8	111	0	43.4	0	51	0

Table 3-2
Summary of TAL Metals Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PEC ¹ (mg/kg)	No. of Results Above PEC	ESL ² (mg/kg)	No. of Results Above ESL	SRV ³ (mg/kg)	No. of Results Above SRV
Cobalt	0 - 6	88	72	82%	5.9	12.9	NL	--	50	0	NL	--
	6 - 24	79	74	94%	4.9	14.4	NL	--	50	0	NL	--
	24 - 48	71	67	94%	5.1	14.2	NL	--	50	0	NL	--
	48 - 72	48	45	94%	4.9	12.5	NL	--	50	0	NL	--
	72 - 96	29	28	97%	5.4	13.7	NL	--	50	0	NL	--
	96 - 120	17	14	82%	5.2	12.8	NL	--	50	0	NL	--
	120 - 144	3	3	100%	9	10.1	NL	--	50	0	NL	--
	144 - 168	2	2	100%	8.3	9.4	NL	--	50	0	NL	--
Copper	0 - 6	88	88	100%	2.8	120	149	0	31.6	45	42	13
	6 - 24	79	79	100%	2.5	102	149	0	31.6	55	42	15
	24 - 48	71	71	100%	7.6	68.4	149	0	31.6	50	42	16
	48 - 72	48	48	100%	6.3	92.2	149	0	31.6	32	42	9
	72 - 96	29	29	100%	9.9	96.8	149	0	31.6	19	42	9
	96 - 120	17	17	100%	8.1	79.7	149	0	31.6	9	42	6
	120 - 144	3	3	100%	42.9	79.8	149	0	31.6	3	42	3
	144 - 168	2	2	100%	47.9	61.9	149	0	31.6	2	42	2
Iron	0 - 6	88	88	100%	6,710	33,700	NL	--	NL	--	44,000	0
	6 - 24	79	79	100%	5,940	35,300	NL	--	NL	--	44,000	0
	24 - 48	71	71	100%	8,240	34,500	NL	--	NL	--	44,000	0
	48 - 72	48	48	100%	7,360	34,200	NL	--	NL	--	44,000	0
	72 - 96	29	29	100%	9,070	34,300	NL	--	NL	--	44,000	0
	96 - 120	17	17	100%	8,180	41,400	NL	--	NL	--	44,000	0
	120 - 144	3	3	100%	25,400	29,600	NL	--	NL	--	44,000	0
	144 - 168	2	2	100%	21,000	23,800	NL	--	NL	--	44,000	0
Lead	0 - 6	88	88	100%	3.8	419	128	3	35.8	14	NL	--
	6 - 24	79	79	100%	3.2	167	128	4	35.8	19	NL	--
	24 - 48	71	71	100%	5.1	410	128	5	35.8	21	NL	--
	48 - 72	48	48	100%	4	171	128	2	35.8	10	NL	--
	72 - 96	29	29	100%	4.6	205	128	2	35.8	12	NL	--
	96 - 120	17	17	100%	5.1	100	128	0	35.8	7	NL	--
	120 - 144	3	3	100%	64.6	136	128	1	35.8	3	NL	--
	144 - 168	2	2	100%	40.5	97.3	128	0	35.8	2	NL	--

Table 3-2
Summary of TAL Metals Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PEC ¹ (mg/kg)	No. of Results Above PEC	ESL ² (mg/kg)	No. of Results Above ESL	SRV ³ (mg/kg)	No. of Results Above SRV
Magnesium	0 - 6	88	88	100%	7,290	24,300	NL	--	NL	--	29,000	0
	6 - 24	79	79	100%	8,180	22,500	NL	--	NL	--	29,000	0
	24 - 48	71	71	100%	9,200	17,200	NL	--	NL	--	29,000	0
	48 - 72	48	48	100%	9,960	24,500	NL	--	NL	--	29,000	0
	72 - 96	29	29	100%	8,800	19,700	NL	--	NL	--	29,000	0
	96 - 120	17	17	100%	8,480	16,600	NL	--	NL	--	29,000	0
	120 - 144	3	3	100%	9,510	12,700	NL	--	NL	--	29,000	0
	144 - 168	2	2	100%	8,460	8,640	NL	--	NL	--	29,000	0
Manganese	0 - 6	88	88	100%	146	868	NL	--	NL	--	1,000	0
	6 - 24	79	79	100%	129	719	NL	--	NL	--	1,000	0
	24 - 48	71	71	100%	176	652	NL	--	NL	--	1,000	0
	48 - 72	48	48	100%	207	665	NL	--	NL	--	1,000	0
	72 - 96	29	29	100%	189	635	NL	--	NL	--	1,000	0
	96 - 120	17	17	100%	179	649	NL	--	NL	--	1,000	0
	120 - 144	3	3	100%	448	920	NL	--	NL	--	1,000	0
	144 - 168	2	2	100%	358	403	NL	--	NL	--	1,000	0
Mercury	0 - 6	88	80	91%	0.0052	5.6	1.06	1	0.174	9	NL	--
	6 - 24	79	71	90%	0.0052	0.94	1.06	0	0.174	13	NL	--
	24 - 48	71	66	93%	0.0097	1.7	1.06	2	0.174	13	NL	--
	48 - 72	48	42	88%	0.01	0.81	1.06	0	0.174	12	NL	--
	72 - 96	29	26	90%	0.017	0.75	1.06	0	0.174	11	NL	--
	96 - 120	17	16	94%	0.0088	0.89	1.06	0	0.174	7	NL	--
	120 - 144	3	2	67%	0.23	1.1	1.06	1	0.174	2	NL	--
	144 - 168	2	2	100%	0.18	0.85	1.06	0	0.174	2	NL	--
Nickel	0 - 6	88	88	100%	7.1	38.9	48.6	0	22.7	59	36	5
	6 - 24	79	79	100%	6.2	39.9	48.6	0	22.7	62	36	13
	24 - 48	71	71	100%	9.8	40.1	48.6	0	22.7	56	36	9
	48 - 72	48	48	100%	7.6	41.5	48.6	0	22.7	35	36	10
	72 - 96	29	29	100%	10.9	42.6	48.6	0	22.7	21	36	7
	96 - 120	17	17	100%	10	40.8	48.6	0	22.7	9	36	5
	120 - 144	3	3	100%	28.1	39.8	48.6	0	22.7	3	36	1
	144 - 168	2	2	100%	27.9	27.9	48.6	0	22.7	2	36	0

Table 3-2
Summary of TAL Metals Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PEC ¹ (mg/kg)	No. of Results Above PEC	ESL ² (mg/kg)	No. of Results Above ESL	SRV ³ (mg/kg)	No. of Results Above SRV
Potassium	0 - 6	88	87	99%	415	4,450	NL	--	NL	--	12,000	0
	6 - 24	79	78	99%	453	4,820	NL	--	NL	--	12,000	0
	24 - 48	71	71	100%	617	4,740	NL	--	NL	--	12,000	0
	48 - 72	48	48	100%	634	5,080	NL	--	NL	--	12,000	0
	72 - 96	29	29	100%	756	5,140	NL	--	NL	--	12,000	0
	96 - 120	17	17	100%	933	4,030	NL	--	NL	--	12,000	0
	120 - 144	3	3	100%	2,350	2,570	NL	--	NL	--	12,000	0
	144 - 168	2	2	100%	2,280	2,410	NL	--	NL	--	12,000	0
Selenium	0 - 6	88	1	1%	0.49	0.49	NL	--	NL	--	1.4	0
	6 - 24	79	0	0%	--	--	NL	--	NL	--	1.4	--
	24 - 48	71	1	1%	0.33	0.33	NL	--	NL	--	1.4	0
	48 - 72	48	2	4%	0.53	1.2	NL	--	NL	--	1.4	0
	72 - 96	29	2	7%	0.38	0.5	NL	--	NL	--	1.4	0
	96 - 120	17	0	0%	--	--	NL	--	NL	--	1.4	--
	120 - 144	3	1	33%	0.42	0.42	NL	--	NL	--	1.4	0
	144 - 168	2	0	0%	--	--	NL	--	NL	--	1.4	--
Silver	0 - 6	88	46	52%	0.036	3.1	NL	--	0.5	11	NL	--
	6 - 24	79	44	56%	0.062	2.3	NL	--	0.5	10	NL	--
	24 - 48	71	41	58%	0.057	2.1	NL	--	0.5	6	NL	--
	48 - 72	48	28	58%	0.1	1.6	NL	--	0.5	6	NL	--
	72 - 96	29	18	62%	0.11	3.3	NL	--	0.5	7	NL	--
	96 - 120	17	9	53%	0.045	1	NL	--	0.5	4	NL	--
	120 - 144	3	2	67%	0.53	2.8	NL	--	0.5	2	NL	--
	144 - 168	2	1	50%	0.66	0.66	NL	--	0.5	1	NL	--
Sodium	0 - 6	88	2	2%	1,570	6,620	NL	--	NL	--	NL	--
	6 - 24	79	2	3%	1,190	2,730	NL	--	NL	--	NL	--
	24 - 48	71	2	3%	980	1,050	NL	--	NL	--	NL	--
	48 - 72	48	2	4%	1,030	1,700	NL	--	NL	--	NL	--
	72 - 96	29	1	3%	1,540	1,540	NL	--	NL	--	NL	--
	96 - 120	17	1	6%	559	559	NL	--	NL	--	NL	--
	120 - 144	3	0	0%	--	--	NL	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--	NL	--

Table 3-2
Summary of TAL Metals Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PEC ¹ (mg/kg)	No. of Results Above PEC	ESL ² (mg/kg)	No. of Results Above ESL	SRV ³ (mg/kg)	No. of Results Above SRV
Thallium	0 - 6	88	0	0%	--	--	NL	--	NL	--	NL	--
	6 - 24	79	0	0%	--	--	NL	--	NL	--	NL	--
	24 - 48	71	0	0%	--	--	NL	--	NL	--	NL	--
	48 - 72	48	0	0%	--	--	NL	--	NL	--	NL	--
	72 - 96	29	0	0%	--	--	NL	--	NL	--	NL	--
	96 - 120	17	0	0%	--	--	NL	--	NL	--	NL	--
	120 - 144	3	0	0%	--	--	NL	--	NL	--	NL	--
	144 - 168	2	0	0%	--	--	NL	--	NL	--	NL	--
Vanadium	0 - 6	88	88	100%	10.4	51.3	NL	--	NL	--	NL	--
	6 - 24	79	79	100%	7.7	54.6	NL	--	NL	--	NL	--
	24 - 48	71	71	100%	12.8	57.5	NL	--	NL	--	NL	--
	48 - 72	48	48	100%	13.2	57.9	NL	--	NL	--	NL	--
	72 - 96	29	29	100%	16.6	60.3	NL	--	NL	--	NL	--
	96 - 120	17	17	100%	15.6	50.5	NL	--	NL	--	NL	--
	120 - 144	3	3	100%	35	38.1	NL	--	NL	--	NL	--
	144 - 168	2	2	100%	32	35.3	NL	--	NL	--	NL	--
Zinc	0 - 6	88	88	100%	18.9	339	459	0	121	37	190	7
	6 - 24	79	79	100%	15.3	332	459	0	121	52	190	12
	24 - 48	71	71	100%	27.9	714	459	1	121	44	190	16
	48 - 72	48	48	100%	21.6	273	459	0	121	27	190	4
	72 - 96	29	29	100%	30.7	308	459	0	121	17	190	4
	96 - 120	17	17	100%	33	217	459	0	121	7	190	2
	120 - 144	3	3	100%	133	268	459	0	121	3	190	1
	144 - 168	2	2	100%	134	256	459	0	121	2	190	1

Notes:

% - Percent

mg/kg - Milligram per kilogram

PEC - Probable Effect Concentration

TAL - Target Analyte List

"--" - Not applicable

bss - Below sediment surface

SRV - Sediment Reference Value

1 From "Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems" (MacDonald, et. al., 2000)

2 From U.S. Environmental Protection Agency Region 5 Ecological Screening Levels, 2003

3 From "Ohio Ecological Risk Assessment Guidance Document," February 2003, revised April 2008

Table 3-3
Summary of Pesticides Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
1,1,1-Trichloro-2,2-bis(p-methoxyphenyl)ethane	0-6	7	0	0%	--	--	NL	--	13.6	--
	6-24	15	0	0%	--	--	NL	--	13.6	--
	24-48	8	0	0%	--	--	NL	--	13.6	--
	48-72	2	0	0%	--	--	NL	--	13.6	--
	72-96	1	0	0%	--	--	NL	--	13.6	--
4,4'-DDD	0-6	7	0	0%	--	--	28	--	4.88	--
	6-24	15	0	0%	--	--	28	--	4.88	--
	24-48	8	0	0%	--	--	28	--	4.88	--
	48-72	2	0	0%	--	--	28	--	4.88	--
	72-96	1	0	0%	--	--	28	--	4.88	--
4,4'-DDE	0-6	7	0	0%	--	--	31.3	--	3.16	--
	6-24	15	0	0%	--	--	31.3	--	3.16	--
	24-48	8	0	0%	--	--	31.3	--	3.16	--
	48-72	2	0	0%	--	--	31.3	--	3.16	--
	72-96	1	0	0%	--	--	31.3	--	3.16	--
4,4'-DDT	0-6	7	0	0%	--	--	62.9	--	4.16	--
	6-24	15	0	0%	--	--	62.9	--	4.16	--
	24-48	8	0	0%	--	--	62.9	--	4.16	--
	48-72	2	0	0%	--	--	62.9	--	4.16	--
	72-96	1	0	0%	--	--	62.9	--	4.16	--
Aldrin	0-6	7	1	14%	2	2	NL	--	2	0
	6-24	15	0	0%	--	--	NL	--	2	--
	24-48	8	0	0%	--	--	NL	--	2	--
	48-72	2	0	0%	--	--	NL	--	2	--
	72-96	1	0	0%	--	--	NL	--	2	--
Alpha-BHC	0-6	7	0	0%	--	--	NL	--	6	--
	6-24	15	0	0%	--	--	NL	--	6	--
	24-48	8	0	0%	--	--	NL	--	6	--
	48-72	2	0	0%	--	--	NL	--	6	--
	72-96	1	0	0%	--	--	NL	--	6	--
Alpha-Chlordane	0-6	7	0	0%	--	--	17.6	--	3.24	--
	6-24	15	0	0%	--	--	17.6	--	3.24	--
	24-48	8	0	0%	--	--	17.6	--	3.24	--
	48-72	2	0	0%	--	--	17.6	--	3.24	--
	72-96	1	0	0%	--	--	17.6	--	3.24	--
Beta-BHC	0-6	7	1	14%	1.7	1.7	NL	--	5	0
	6-24	15	2	13%	1.8	2.4	NL	--	5	0
	24-48	8	1	13%	2.6	2.6	NL	--	5	0
	48-72	2	0	0%	--	--	NL	--	5	--
	72-96	1	0	0%	--	--	NL	--	5	--
Camphechlor	0-6	7	0	0%	--	--	NL	--	0.077	--
	6-24	15	0	0%	--	--	NL	--	0.077	--
	24-48	8	0	0%	--	--	NL	--	0.077	--
	48-72	2	0	0%	--	--	NL	--	0.077	--
	72-96	1	0	0%	--	--	NL	--	0.077	--
Delta-BHC	0-6	7	0	0%	--	--	NL	--	71,500	--
	6-24	15	0	0%	--	--	NL	--	71,500	--
	24-48	8	0	0%	--	--	NL	--	71,500	--
	48-72	2	0	0%	--	--	NL	--	71,500	--
	72-96	1	0	0%	--	--	NL	--	71,500	--

Table 3-3
Summary of Pesticides Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Dieldrin	0-6	7	0	0%	--	--	61.8	--	295	--
	6-24	15	0	0%	--	--	61.8	--	295	--
	24-48	8	0	0%	--	--	61.8	--	295	--
	48-72	2	0	0%	--	--	61.8	--	295	--
	72-96	1	0	0%	--	--	61.8	--	295	--
Endosulfan I	0-6	7	0	0%	--	--	NL	--	3.26	--
	6-24	15	0	0%	--	--	NL	--	3.26	--
	24-48	8	0	0%	--	--	NL	--	3.26	--
	48-72	2	0	0%	--	--	NL	--	3.26	--
	72-96	1	0	0%	--	--	NL	--	3.26	--
Endosulfan II	0-6	7	0	0%	--	--	NL	--	1.94	--
	6-24	15	0	0%	--	--	NL	--	1.94	--
	24-48	8	0	0%	--	--	NL	--	1.94	--
	48-72	2	0	0%	--	--	NL	--	1.94	--
	72-96	1	0	0%	--	--	NL	--	1.94	--
Endosulfan sulfate	0-6	7	0	0%	--	--	NL	--	34.6	--
	6-24	15	0	0%	--	--	NL	--	34.6	--
	24-48	8	0	0%	--	--	NL	--	34.6	--
	48-72	2	0	0%	--	--	NL	--	34.6	--
	72-96	1	0	0%	--	--	NL	--	34.6	--
Endrin	0-6	7	0	0%	--	--	207	--	2.22	--
	6-24	15	0	0%	--	--	207	--	2.22	--
	24-48	8	0	0%	--	--	207	--	2.22	--
	48-72	2	0	0%	--	--	207	--	2.22	--
	72-96	1	0	0%	--	--	207	--	2.22	--
Endrin aldehyde	0-6	7	0	0%	--	--	NL	--	480	--
	6-24	15	1	7%	3.4	3.4	NL	--	480	0
	24-48	8	0	0%	--	--	NL	--	480	--
	48-72	2	0	0%	--	--	NL	--	480	--
	72-96	1	0	0%	--	--	NL	--	480	--
Endrin ketone	0-6	7	0	0%	--	--	NL	--	NL	--
	6-24	15	0	0%	--	--	NL	--	NL	--
	24-48	8	0	0%	--	--	NL	--	NL	--
	48-72	2	0	0%	--	--	NL	--	NL	--
	72-96	1	0	0%	--	--	NL	--	NL	--
Gamma-BHC (Lindane)	0-6	7	0	0%	--	--	4.99	--	2.37	--
	6-24	15	0	0%	--	--	4.99	--	2.37	--
	24-48	8	0	0%	--	--	4.99	--	2.37	--
	48-72	2	0	0%	--	--	4.99	--	2.37	--
	72-96	1	1	100%	2.2	2.2	4.99	0	2.37	0
Gamma-chlordane	0-6	7	2	29%	5.1	12	17.6	0	3.24	2
	6-24	15	0	0%	--	--	17.6	--	3.24	--
	24-48	8	0	0%	--	--	17.6	--	3.24	--
	48-72	2	0	0%	--	--	17.6	--	3.24	--
	72-96	1	0	0%	--	--	17.6	--	3.24	--
Heptachlor	0-6	7	1	14%	2.7	2.7	NL	--	0.6	1
	6-24	15	1	7%	1.9	1.9	NL	--	0.6	1
	24-48	8	0	0%	--	--	NL	--	0.6	--
	48-72	2	0	0%	--	--	NL	--	0.6	--
	72-96	1	0	0%	--	--	NL	--	0.6	--

**Table 3-3
Summary of Pesticides Sediment Sample Results
Lower Maumee River - Maumee River AOC
Toledo, Lucas County, Ohio**

Analyte	Sampling Depth (inches bss)	No. of Results	No. of Detects	% Detects	Minimum Detection (µg/kg)	Maximum Detection (µg/kg)	PEC ¹ (µg/kg)	No. of Results Above PEC	ESL ² (µg/kg)	No. of Results Above ESL
Heptachlor epoxide	0-6	7	0	0%	--	--	16	--	2.47	--
	6-24	15	0	0%	--	--	16	--	2.47	--
	24-48	8	0	0%	--	--	16	--	2.47	--
	48-72	2	0	0%	--	--	16	--	2.47	--
	72-96	1	0	0%	--	--	16	--	2.47	--

Notes:

% - Percent

"--" - Not applicable

µg/kg - Microgram per kilogram

bss - Below sediment surface

ESL - Ecological Screening Level

NL - Not listed

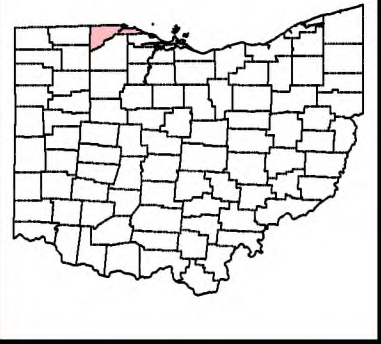
PEC - Probable Effect Concentration

1 From "Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems" (MacDonald, et. al., 2000)

2 From U.S. Environmental Protection Agency Region 5 Ecological Screening Levels, 2003



FIGURES

Imagery Source: ESRI Bing Maps



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Legend

-  Lower Maumee River Project Area
-  Maumee AOC Boundary



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U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0008-1103-006
DCN: 1395-2A-ASFS

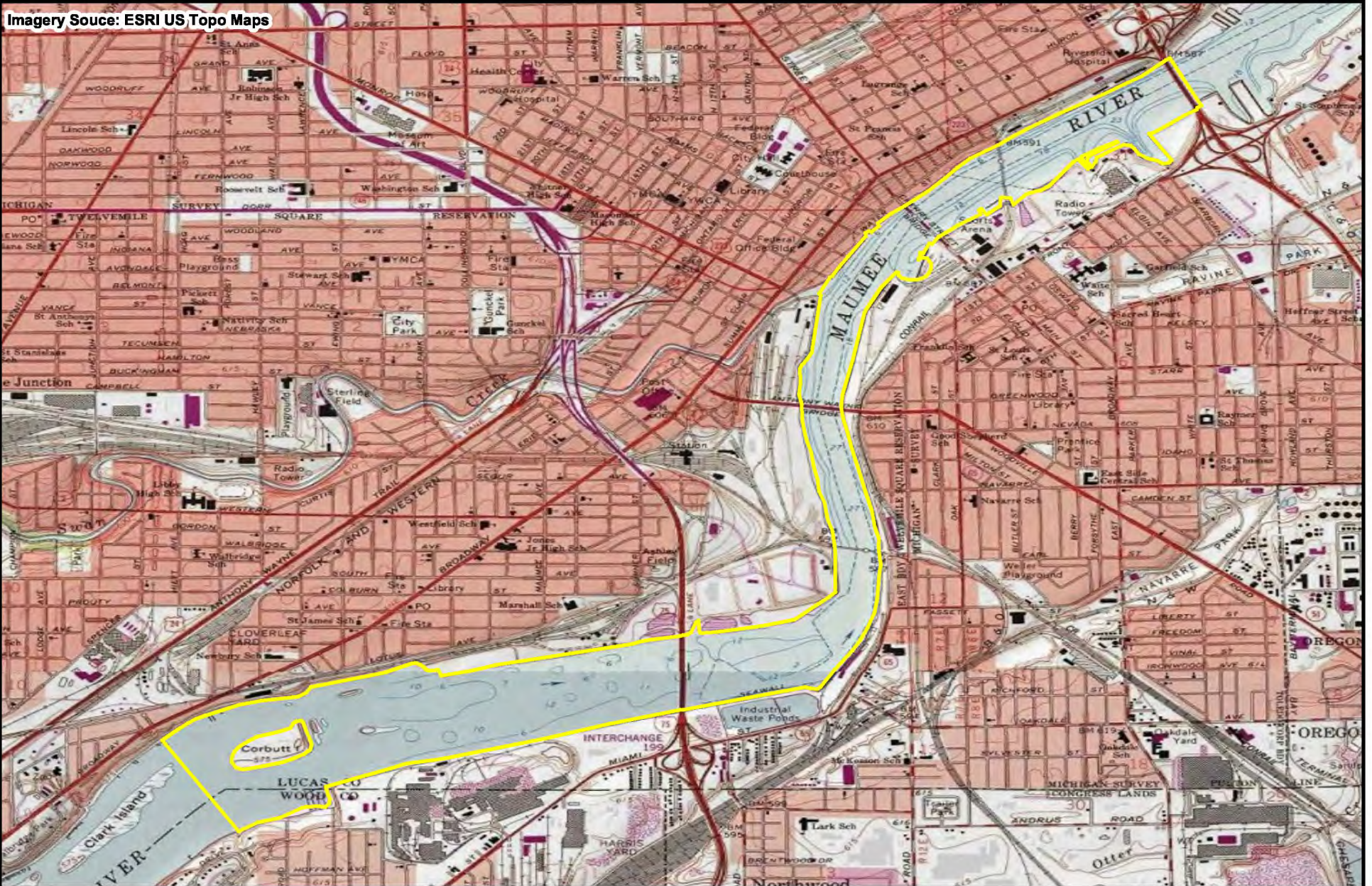


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Figure 1-1
Site Location Map
Lower Maumee River
Toledo, Lucas County, Ohio

Imagery Source: ESRI US Topo Maps



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Legend

 Lower Maumee River Project Area



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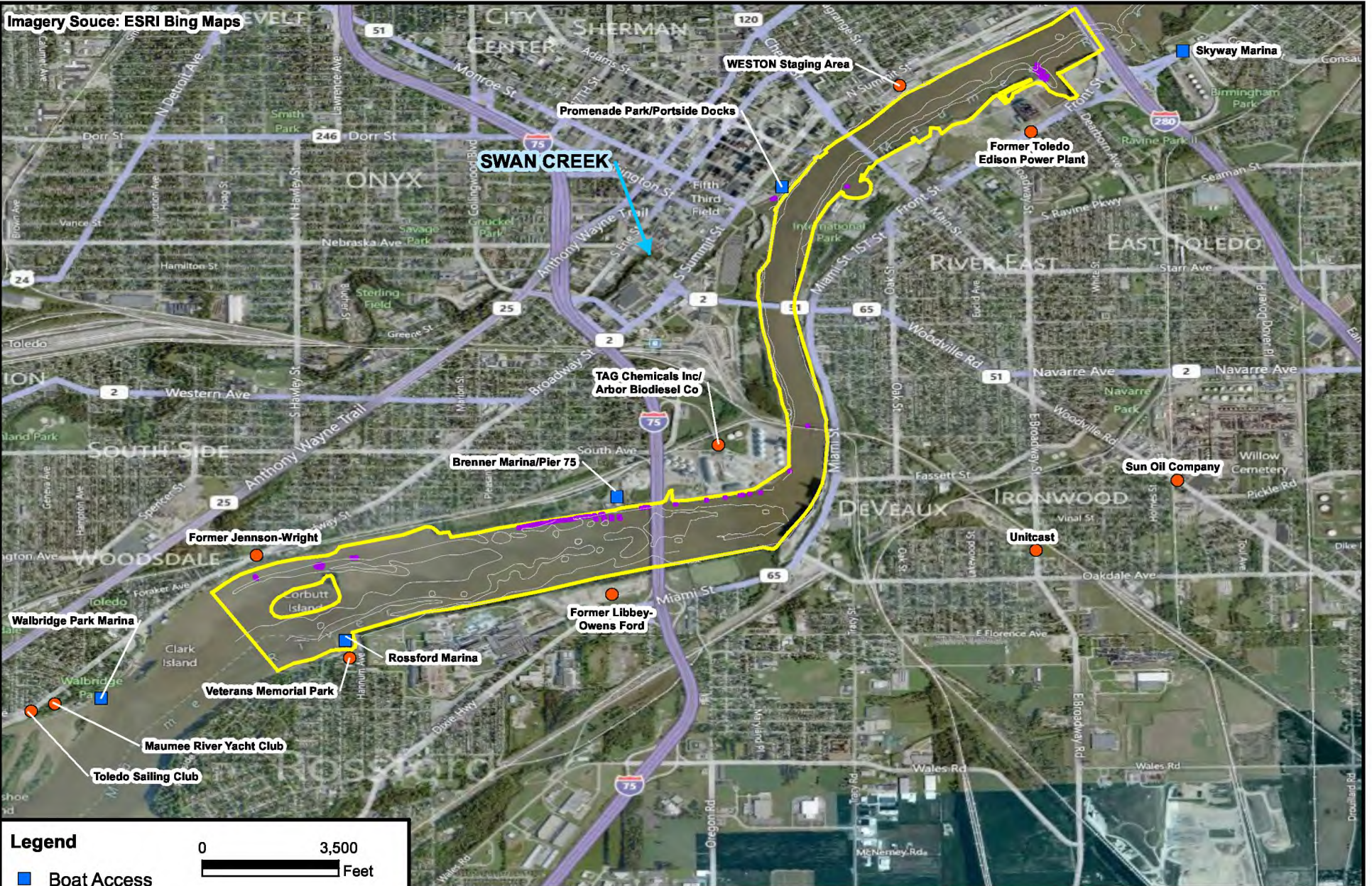
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Figure 1-2
Site Layout Map
Lower Maumee River
Toledo, Lucas County, Ohio

Imagery Source: ESRI Bing Maps

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Legend

■ Boat Access

● Points of Interest

— Contours

▨ Obstructions/Pilings

▭ Lower Maumee River Project Area



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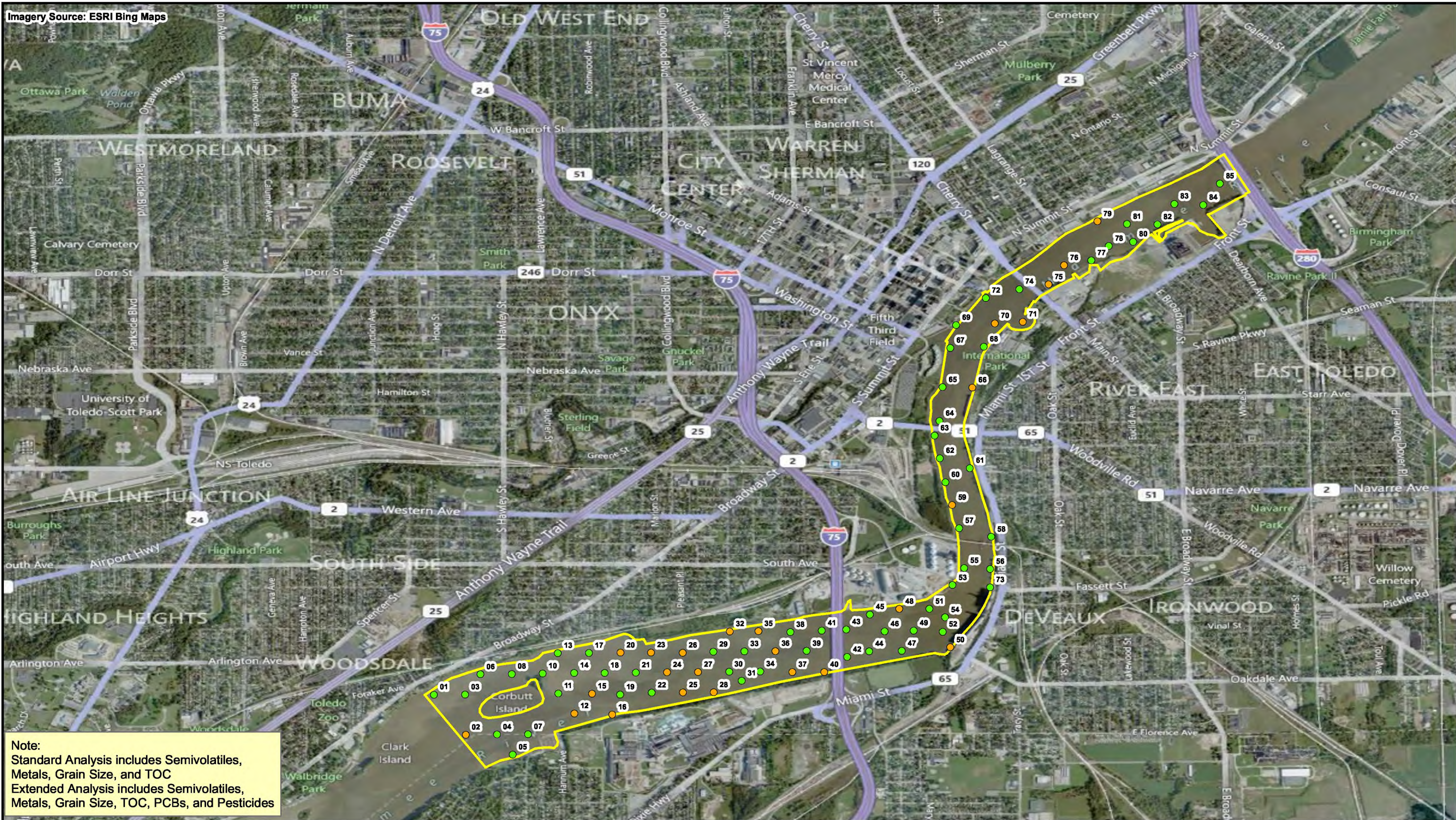


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Figure 1-3
Site Features Map
Lower Maumee River
Toledo, Lucas County, Ohio

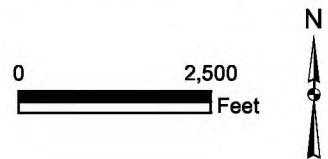
Imagery Source: ESRI Bing Maps



Note:
 Standard Analysis includes Semivolatiles,
 Metals, Grain Size, and TOC
 Extended Analysis includes Semivolatiles,
 Metals, Grain Size, TOC, PCBs, and Pesticides

Legend

- Sampling Location with Standard Analysis
- Sampling Location with Extended Analysis
- Lower Maumee River Project Area

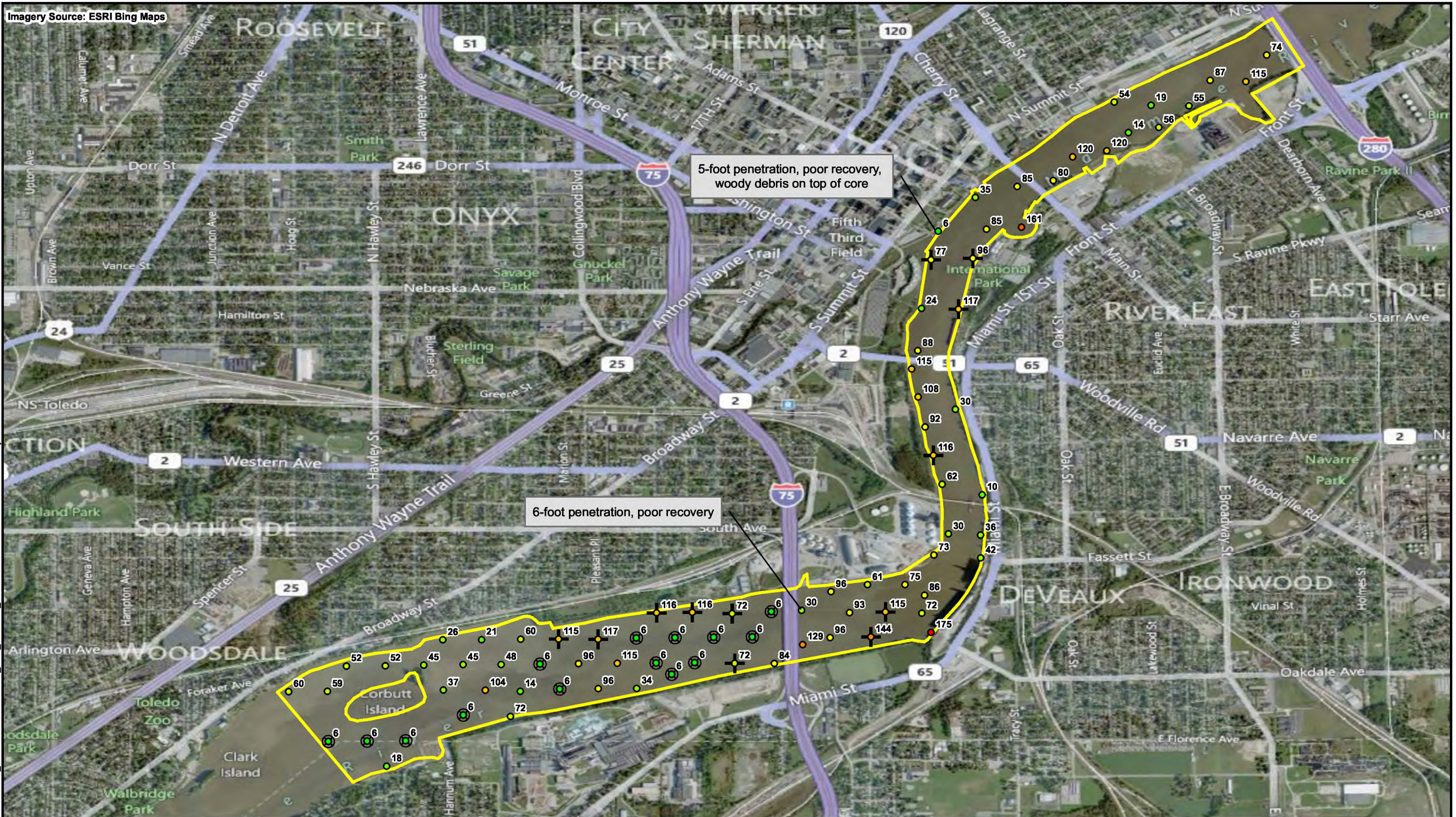


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Figure 2-1
 Sampling Location Map
 Lower Maumee River
 Toledo, Lucas County, Ohio




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Legend


- ⊗ Ponar Only
- ⊕ No Refusal at Depth
- Lower Maumee
- River Project Area
- 0 - 6
- 6 - 24
- 24 - 48
- 48 - 72
- 72 - 96
- 96 - 120
- 120 - 144
- 144 - 168
- 168 and Above

Note: All depths are listed in inches below surface

0 2,500 Feet

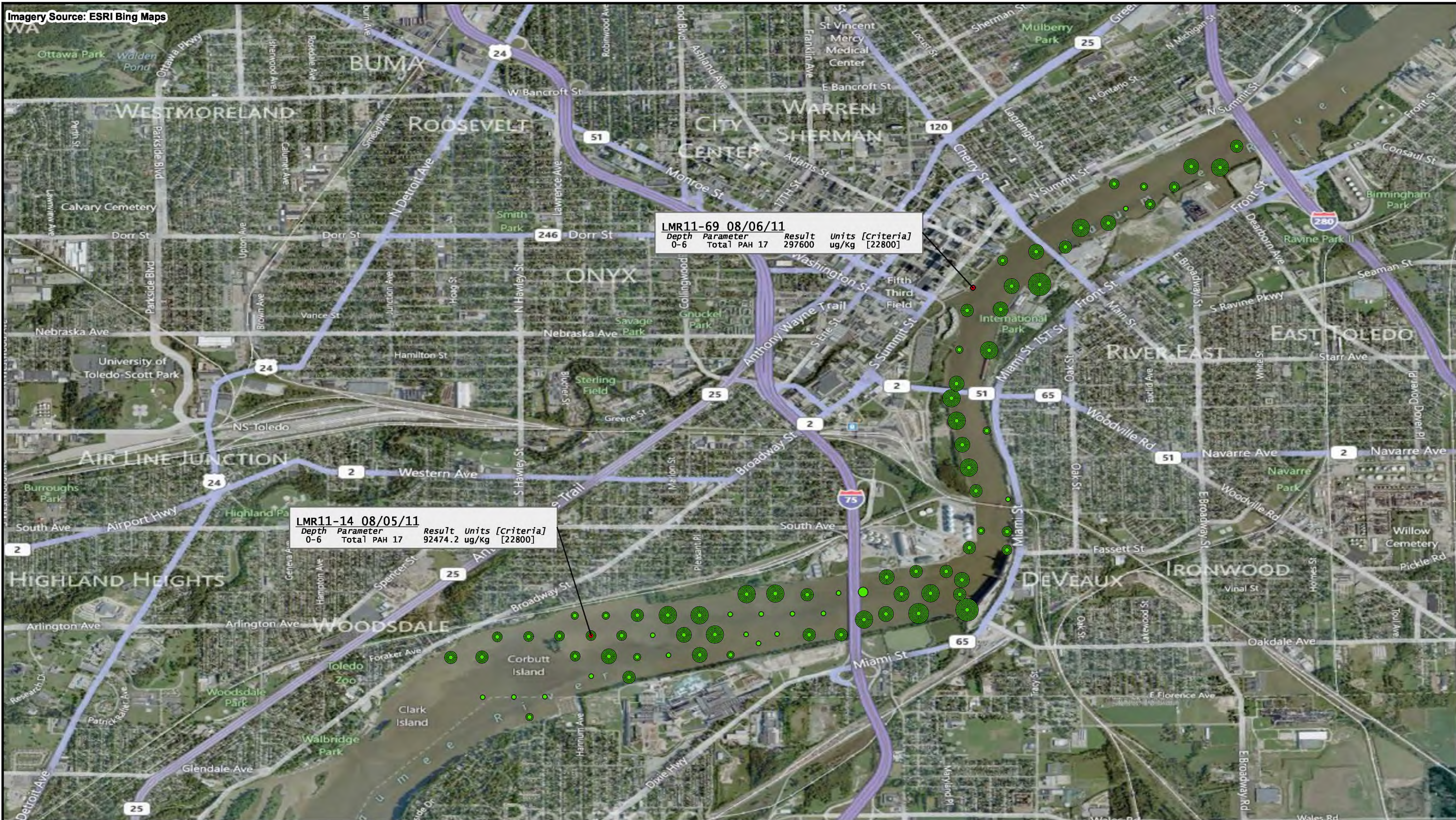


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Figure 2-2
 Sediment Thickness Map
 Lower Maumee River
 Toledo, Lucas County, Ohio



LMR11-69 08/06/11
 Depth 0-6 Parameter Total PAH 17 Result 297600 Units ug/Kg [Criteria] [22800]

LMR11-14 08/05/11
 Depth 0-6 Parameter Total PAH 17 Result 92474.2 Units ug/Kg [Criteria] [22800]

Legend

- Result Below Criteria
- Result Above Criteria

- 0 - 6 in
- 6 - 24 in
- 24 - 48 in
- 48 - 72 in
- 72 - 96 in
- 96 - 120 in
- 120 - 144 in
- 144 - 168 in

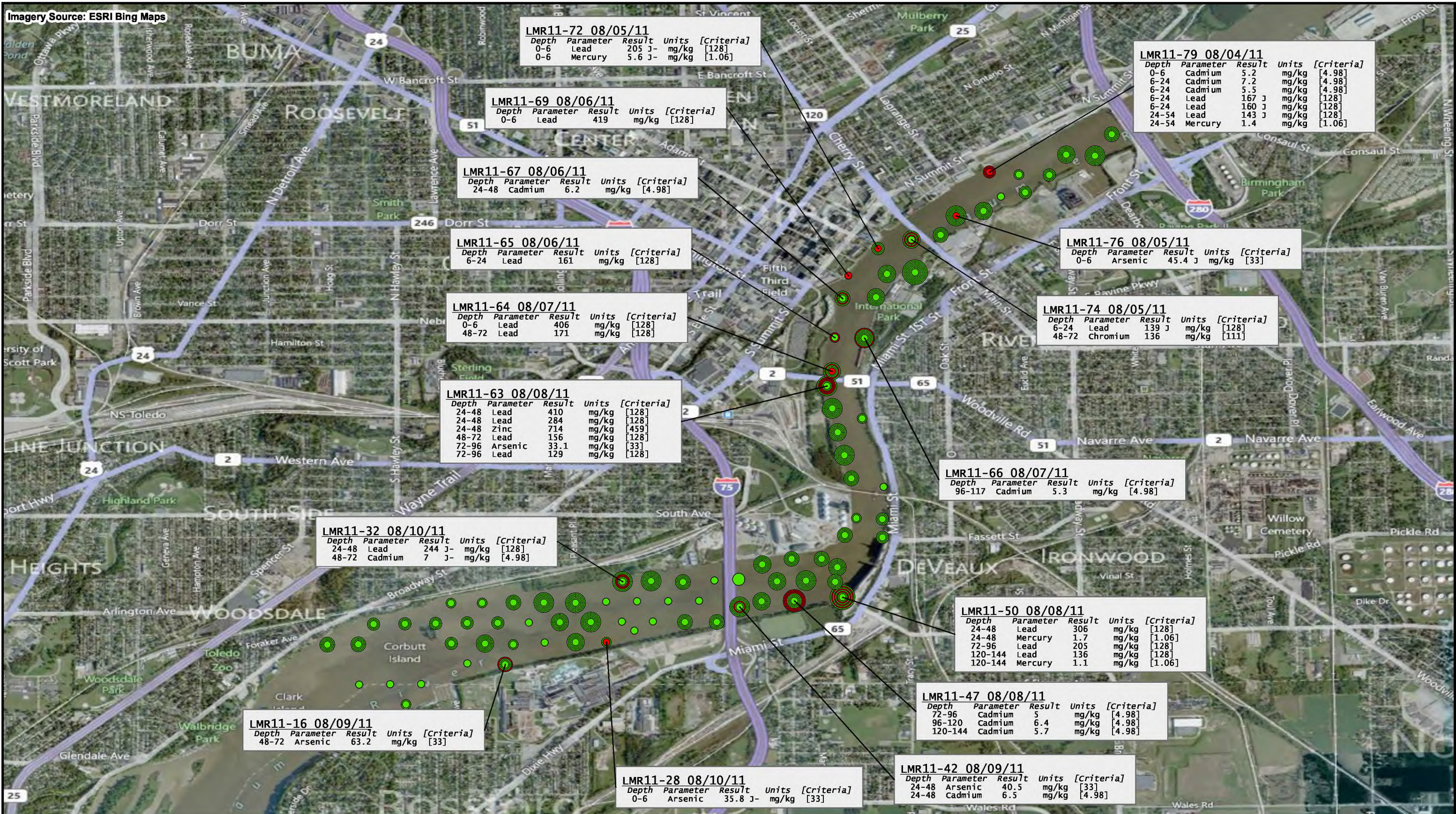


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Figure 3-1
 Sampling Results Exceeding PECs - Total PAHs
 Lower Maumee River
 Toledo, Lucas County, Ohio



FILE: D:\Lower_Maumee\mxd\SAR\SAR_F3-2_Total_Metals_PEC.mxd 1/5/2012 3:01:26 PM mejaom

Legend

- Result Below Criteria
- Result Above Criteria
- 0 - 6 in
- 6 - 24 in
- 24 - 48 in
- 48 - 72 in
- 72 - 96 in
- 96 - 120 in
- 120 - 144 in
- 144 - 168 in



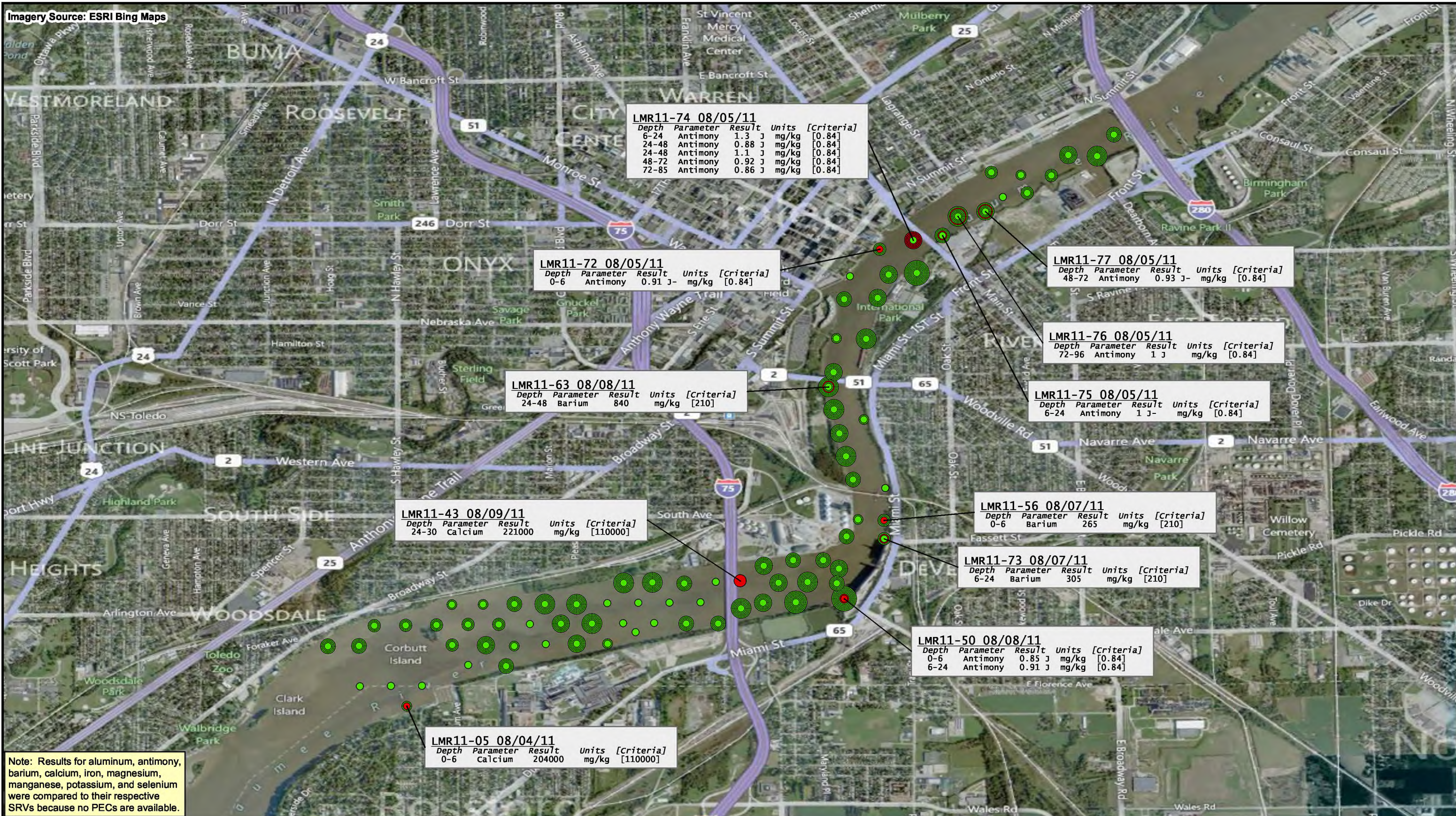
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Figure 3-2
 Sampling Results Exceeding PECs - Total Metals
 Lower Maumee River
 Toledo, Lucas County, Ohio

Imagery Source: ESRI Bing Maps



Note: Results for aluminum, antimony, barium, calcium, iron, magnesium, manganese, potassium, and selenium were compared to their respective SRVs because no PECs are available.

Legend

- Result Below Criteria
- Result Above Criteria

● 0 - 6 in	● 96 - 120 in
● 6 - 24 in	● 120 - 144 in
● 24 - 48 in	● 144 - 168 in
● 48 - 72 in	
● 72 - 96 in	

Prepared For:
US EPA Region V
 Contract No.: EP-S5-06-04
 TDD: S05-0008-1103-006
 DCN: 1395-2A-ASFS

Prepared By:
WESTON SOLUTIONS, INC.
 750 E. Bunker Court
 Suite 500
 Vernon Hills, Illinois 60061

Figure 3-3
 Sampling Results Exceeding SRVs -
 Total Metals without PECs
 Lower Maumee River
 Toledo, Lucas County, Ohio

FILE: D:\Lower_Maumee\mxd\SRV\SRV_F3-3_Totals_Metals_SRV.mxd 1/5/2012 3:03:55 PM mejaam

APPENDIX A
SEDIMENT CORE LOGS



SEDIMENT LOG OF LMR11-01

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-02-11/08-05-11
Sample Date : 08-02-11/08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 60"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.253
Y Coordinates : 83 34.357

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	CLAYEY SILT, dark brown, trace fine grained sand			LMR11-01-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1			LMR11-01-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)			
2			LMR11-01-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)			
3		SM	SAND, with silt, fine to medium grained, dark brown, some shells			LMR11-01-60 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4						
5	END OF SEDIMENT BORING AT 60" bgs					
6	Ponar collected independent of vibracore					



SEDIMENT LOG OF LMR11-02

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-02-11
Sample Date : 08-02-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 06"

WESTON Geologist : M. Beer
X Coordinates : 41 37.071
Y Coordinates : 83 34.211

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, PCB Aroclors, Pesticides (CLP) TOC, Grain Size (TA)		
DESCRIPTION						
0		MH	SILT with trace fine sand, dark green/brown, some wood chips			LMR11-02-06 (SVOCs, Total Metals/Hg, PCB Aroclors, Pesticides) LMR11-02-06MS (PCB Aroclors, Pesticides) LMR11-02-06MSD (PCB Aroclors, Pesticides)
END OF SEDIMENT BORING AT 6" Ponar collected independently of vibracore						
1						



SEDIMENT LOG OF LMR11-03

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11
Sample Date : 08-03-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 59"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.255
Y Coordinates : 83 34.213

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT with fine sand, some gravel, some detritus, saturated, dark brown, no odor			LMR11-03-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, dark brown banding, some detritus, saturated, no odor			LMR11-03-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SILT, with some fine sand, light brown, dark brown banding, some detritus, no odor, wet			LMR11-03-48(SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML				
4		SP	SAND, Well Graded, light brown, some detritus, wet, no odor			
4		ML	SILT, with some fine sand, light brown, dark brown banding, some detritus, no odor, wet			LMR11-03-59 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5	END OF SEDIMENT BORING AT 59" bgs					
6	Ponar collected independent of vibracore					



SEDIMENT LOG OF LMR11-04

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 06"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.072
Y Coordinates : 83 34.069

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SM	SILTY SAND, fine to medium grained, some silt, trace clay, grey, decay-like odor			LMR11-04-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar collected independent of vibracore						
1						



SEDIMENT LOG OF LMR11-05

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 24"

WESTON Geologist : J. Colomb
X Coordinates : 41 36.980
Y Coordinates : 83 33.996

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	CLAYEY SILT, trace fine sand, gray/brown, some detritus, saturated, no odor			LMR11-05-06 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-05-18 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, gray/brown, some detritus, saturated, no odor			
2	END OF SEDIMENT BORING AT 24" bgs					
Ponar collected independent of vibracore						
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-06

<p style="text-align: center;">U.S. EPA Region V Contract: EP-S5-06-04</p> <p style="text-align: center;">Lower Maumee River Toledo, Lucas County, Ohio</p>	<p>Collection Date : 08-03-11</p> <p>Sample Date : 08-03-11</p> <p>Collector : WESTON</p> <p>Collection Method : Ponar/Vibracore</p> <p>Total Depth : 52"</p>	<p>WESTON Geologist : J. Colomb</p> <p>X Coordinates : 41 37.348</p> <p>Y Coordinates : 83 34.144</p>
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT with some fine sand, saturated, dark brown, no odor		<input checked="" type="checkbox"/>	LMR11-06-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, with trace fine sand, some detritus, light brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-06-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine sand, grey/light brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-06-52 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			<input checked="" type="checkbox"/>	
4		ML			<input checked="" type="checkbox"/>	
END OF SEDIMENT BORING AT 52" bgs						
5						
6						



SEDIMENT LOG OF LMR11-07

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11
Sample Date : 08-03-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 06"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.073
Y Coordinates : 83 33.927

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SW	SAND, Well Graded, fine to medium grain, some silt, some gravel, grey/brown, saturated, no odor, wood chips.			LMR11-07-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs						
1						



SEDIMENT LOG OF LMR11- 08

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11/08-05-11
Sample Date : 08-03-11/08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 52"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.349
Y Coordinates : 83 34.002

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	CLAYEY SILT, trace coarse gravel, gray, loose, trace organics, decay-like odor, saturated.		LMR11-08-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
1		ML	CLAYEY SILT, trace fine sand, grey-brown, trace organics, saturated, no odor.		LMR-11-08-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
2	LMR-11-08-52 (SVOCs, Total Metals/Hg, TOC, Grain Size)					
3						
4						
5						
6						
END OF SEDIMENT BORING AT 52" bgs						



SEDIMENT LOG OF LMR11-10

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 45"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.350
Y Coordinates : 83 33.861

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SP	SAND, Poorly Graded, fine to medium grained, light brown, wet, organic odor, no visible organic material		<input checked="" type="checkbox"/>	LMR11-10-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, fine to medium grained, light brown, wet, organic odor, no visible organic material		<input checked="" type="checkbox"/>	LMR11-10-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		SP	SAND, Poorly Graded, fine to medium grained, some clay, light brown, wet, organic odor, no visible organic material		<input checked="" type="checkbox"/>	LMR11-10-45 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		SP			<input checked="" type="checkbox"/>	
4	END OF SEDIMENT BORING AT 45" bgs					
5						
6						



SEDIMENT LOG OF LMR11-11

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 37"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.259
Y Coordinates : 83 33.788

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SP	SAND, Poorly Graded, fine to medium grained, dark brown, wet, no odor			LMR11-11-06 (SVOCs, Total Metals/Hg, TOC)
1		SW	SAND, Well Graded, fine to coarse grained, some cobbles, dark brown, wet, no odor			LMR11-11-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		SP	SAND, Poorly Graded, fine to medium grained, dark brown, damp, no odor			LMR11-11-37 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3						
END OF SEDIMENT BORING AT 37" bgs						
4						
5						
6						



SEDIMENT LOG OF LMR11-12

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11
Sample Date : 08-03-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.167
Y Coordinates : 83 33.716

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	CLAYEY SILT, no odor, some organics			LMR11-12-06 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
END OF SEDIMENT BORING AT 06" bgs Ponar collected independent of vibracore						
1						



SEDIMENT LOG OF LMR11-13

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11
Sample Date : 08-03-11
Collector : WESTON
Collection Method : Ponar/Hand Core
Total Depth : 26"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.443
Y Coordinates : 83 33.791

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	CLAYEY SILT, with fine to medium sand, light brown, wet, no odor			LMR11-12-06 (SVOCs, Total Metals/Hg, TOC)
1		ML	CLAYEY SILT, trace fine sand, light brown, wet, no odor, grades to fine to medium sand			LMR11-12-26 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2	END OF SEDIMENT BORING AT 26" bgs					
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-14

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 45"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.352
Y Coordinates : 83 33.719

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SANDY SILT, fine grained sand, dark brown, some black banding, wet, no odor			LMR11-14-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, with some fine sand, brown, wet, no odor			LMR11-14-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SILT, with some fine sand, dark brown, some black banding, wet, no odor			LMR11-14-45 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML				
4	END OF SEDIMENT BORING AT 45" bgs					
5						
6						



SEDIMENT LOG OF LMR11-15

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 104"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.257981
Y Coordinates : 83 33.635086

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SANDY SILT, fine grained sand, saturated, no odor			LMR11-15-06 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-15-06-DP (SVOCs, Total Metals/Hg, TOC)
1		SP	SAND, Poorly Graded, fine to medium grained, some silt, some organics, wet, no odor			LMR11-15-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-15-24-DP (SVOCs, Total Metals/Hg, TOC)
2			SILT, trace fine grained sand, saturated, no odor			
3		ML	SILT, trace fine grained sand, saturated, no odor			LMR11-15-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides) LMR11-15-48-DP (SVOCs, Total Metals/Hg, TOC, PCB Aroclors, Pesticides)
4			CLAYEY SILT, trace fine grained sand, light brown, saturated, no odor			
5						LMR11-15-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML				
7						LMR11-15-104 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8						
9	END OF SEDIMENT BORING AT 104" bgs					



SEDIMENT LOG OF LMR11-16

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 72"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.162291
Y Coordinates : 83 33.543026

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, some gravel, light brown, saturated, no odor			LMR11-16-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sands, saturated, no odor			LMR-11-16-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML				
3		ML				LMR-11-16-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SW	SAND, Well Graded, fine to medium grained, some gravel, shell fragments, saturated, no odor			LMR-11-16-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SW				
6		SW				
END OF SEDIMENT BORING AT 72" bgs						



SEDIMENT LOG OF LMR11-17

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 21"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.444
Y Coordinates : 83 33.649

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SP	SAND, Poorly Graded, fine to medium grained, some silt, some organics, light brown, wet, no odor		X	LMR11-17-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, some silt, light brown, wet, no odor			
2	END OF SEDIMENT BORING AT 21" bgs					
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-18

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11/08-05-11
Sample Date : 08-03-11/08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 48"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.353
Y Coordinates : 83 33.577

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, trace organics, gray, wet, decay odor			LMR11-18-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, fine to medium grained, some silt, dark brown, wet, no odor			LMR11-18-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, with fine grained sand, dark brown, wet, no odor			LMR11-18-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML				
4		ML				
5		ML				
6		ML				
<p>END OF SEDIMENT BORING AT 48" bgs</p> <p>Ponar collected independent of Vibracore</p>						



SEDIMENT LOG OF LMR11-19

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-03-11
Sample Date : 08-03-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 14"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.154
Y Coordinates : 83 33.506

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, some fine to medium sand, grey-brown, organics, saturated, no odor			LMR11-19-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SANDY SILT, fine to medium sand, some cobbles, dark brown, saturated, no odors			LMR11-19-14 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 14" bgs Ponar collected independent of Vibracore						
2						
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-20

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-02-11/08-05-11
Sample Date : 08-02-11/08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 60"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.446
Y Coordinates : 83 33.508

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	CLAYEY SILT, trace fine sand, grey-brown, saturated, no odor		X	LMR11-20-06 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-20-06-FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, some clay, brown, saturated, no odor		X	LMR11-20-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	SILT, trace fine sand, brown, saturated, no odor		X	
3		ML			X	LMR11-20-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	SILT, trace fine sand, grading from fine to medium, trace organics, brown, wet, no odor		X	LMR11-20-60 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5			END OF SEDIMENT BORING AT 60" bgs Ponar collected independent of Vibracore			
6						



SEDIMENT LOG OF LMR11-21

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.354
Y Coordinates : 83 33.435

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
			DESCRIPTION			
0		ML	SILT, some fine grained sand, trace cobbles, trace organics, grey-brown, saturated, no odor			LMR11-21-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar collected independent of vibracore						
1						



SEDIMENT LOG OF LMR11-22

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.263
Y Coordinates : 83 33.363

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, some fine grained sand, some gravel, trace organics, brown, saturated, no odor			LMR11-22-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar collected independently of vibracore						
1						



SEDIMENT LOG OF LMR11-23

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-11-11
Sample Date : 08-11-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 115"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.446
Y Coordinates : 83 33.366

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-23-06 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-23-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides) LMR11-23-24-MS (PCB Aroclors, Pesticides) LMR11-23-24-MSD (PCB Aroclors, Pesticides)
2			CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-23-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3						
4						
5						LMR11-23-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML				LMR11-23-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7						
8						
9						LMR11-23-115 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 115" bgs						



SEDIMENT LOG OF LMR11-24

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11/08-11-11
Sample Date : 08-04-11/08-11-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 96"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.363
Y Coordinates : 83 33.305

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor			LMR11-24-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-24-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-24-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
3		ML				
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-24-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML				
6		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor			LMR11-24-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML				
8	<p>END OF SEDIMENT BORING AT 96" bgs</p> <p>Ponar collected independently of vibracore</p>					



SEDIMENT LOG OF LMR11-25

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-11-11
Sample Date : 08-11-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 96"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.264
Y Coordinates : 83 33.221

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor		LMR11-25-06 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)	
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		LMR11-25-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		LMR11-25-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)	
3						
4		ML			LMR11-25-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
5						
6		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor		LMR11-25-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
7						
8						
END OF SEDIMENT BORING AT 96" bgs Ponar and vibracore collected independently						



SEDIMENT LOG OF LMR11-26

<p style="text-align: center;">U.S. EPA Region V Contract: EP-S5-06-04</p> <p style="text-align: center;">Lower Maumee River Toledo, Lucas County, Ohio</p>	<p>Collection Date : 08-10-11</p> <p>Sample Date : 08-10-11</p> <p>Collector : WESTON</p> <p>Collection Method : Ponar/Vibracore</p> <p>Total Depth : 117"</p>	<p>WESTON Geologist : J. Colomb</p> <p>X Coordinates : 41 37.4448</p> <p>Y Coordinates : 83 33.2218</p>
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input checked="" type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-26-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-26-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-26-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			<input checked="" type="checkbox"/>	
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-26-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML			<input checked="" type="checkbox"/>	
6		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-26-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML			<input checked="" type="checkbox"/>	
8		ML			<input checked="" type="checkbox"/>	
9		ML			<input checked="" type="checkbox"/>	
10	END OF SEDIMENT BORING AT 117" bgs					



SEDIMENT LOG OF LMR11-27

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11/08-11-11
Sample Date : 08-04-11/08-11-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 115"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.3599
Y Coordinates : 83 33.1628

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor			LMR11-27-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, fine to medium grained, light brown, saturated, no odor			LMR11-27-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-27-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
3		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-27-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-27-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-27-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor			LMR11-27-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor			LMR11-27-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	SILT, trace fine grained sand, light brown, wet, no odor			LMR11-27-115 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9		ML	SILT, trace fine grained sand, light brown, wet, no odor			LMR11-27-115 (SVOCs, Total Metals/Hg, TOC, Grain Size)
10	END OF SEDIMENT BORING AT 115" bgs Ponar and vibracore collected independently					



SEDIMENT LOG OF LMR11-28

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-10-11
Sample Date : 08-10-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 34"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.2645
Y Coordinates : 83 33.0803

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	CLAYEY SILT, some fine to medium grained sand, grey-brown, trace organics, saturated, no odor			LMR11-28-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine to medium grained sand, light brown, saturated, no odor			LMR11-28-34 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
3	END OF SEDIMENT BORING AT 34" bgs					
4						
5						
6						



SEDIMENT LOG OF LMR11-29

U.S. EPA Region V
 Contract: EP-S5-06-04
 Lower Maumee River
 Toledo, Lucas County, Ohio

Collection Date : 08-04-11
 Sample Date : 08-04-11
 Collector : WESTON
 Collection Method : Ponar
 Total Depth : 6"

WESTON Geologist : J. Colomb
 X Coordinates : 41 37.449
 Y Coordinates : 83 33.082

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-29-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-30

U.S. EPA Region V
 Contract: EP-S5-06-04
 Lower Maumee River
 Toledo, Lucas County, Ohio

Collection Date : 08-04-11
 Sample Date : 08-04-11
 Collector : WESTON
 Collection Method : Ponar
 Total Depth : 6"

WESTON Geologist : J. Colomb
 X Coordinates : 41 37.358
 Y Coordinates : 83 33.010

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	CLAYEY SILT, some fine grained sand, trace organics, dark brown, saturated, no odor			LMR11-30-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-31

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.371
Y Coordinates : 83 32.953

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, very fine silt, trace clay, trace organics, grey, saturated, no odor			LMR11-31-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-32

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-10-11
Sample Date : 08-10-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 116"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.5415
Y Coordinates : 83 33.0072

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor		LMR11-32-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		LMR11-32-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		LMR11-32-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
3		ML				
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor		LMR11-32-72 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)	
5		ML				
6		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor		LMR11-32-96 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)	
7		ML				
8		ML				
9		ML				
10	END OF SEDIMENT BORING AT 116" bgs					



SEDIMENT LOG OF LMR11-33

(Page 1 of 1)

U.S. EPA Region V
 Contract: EP-S5-06-04
 Lower Maumee River
 Toledo, Lucas County, Ohio

Collection Date : 08-04-11
 Sample Date : 08-04-11
 Collector : WESTON
 Collection Method : Ponar
 Total Depth : 6"

WESTON Geologist : J. Colomb
 X Coordinates : 41 37.451
 Y Coordinates : 83 32.940

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, very fine silt, trace clay, trace organics, grey, saturated, no odor			LMR11-33-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-34

(Page 1 of 1)

U.S. EPA Region V
 Contract: EP-S5-06-04
 Lower Maumee River
 Toledo, Lucas County, Ohio

Collection Date : 08-04-11
 Sample Date : 08-04-11
 Collector : WESTON
 Collection Method : Ponar
 Total Depth : 6"

WESTON Geologist : J. Colomb
 X Coordinates : 41 37.359
 Y Coordinates : 83 32.868

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SANDY SILT, fine grained sand, grey-brown, saturated, no odor			LMR11-34-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-35

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-10-11
Sample Date : 08-10-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 116"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.5436' N
Y Coordinates : 83 32.8763' W

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-35-06 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-35-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-35-24-FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SILT, trace fine grained sand, dark brown, wet, no odor		X	LMR11-35-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-35-72 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor		X	LMR11-35-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-35-116 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor, fine sand lens at 113"		X	LMR11-35-116 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor, fine sand lens at 113"			LMR11-35-116 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor, fine sand lens at 113"		X	LMR11-35-116 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9		ML	CLAYEY SILT, trace fine to medium grained sand, dark brown, wet, no odor, fine sand lens at 113"			LMR11-35-116 (SVOCs, Total Metals/Hg, TOC, Grain Size)
10	END OF SEDIMENT BORING AT 116" bgs					



SEDIMENT LOG OF LMR11-36

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.452' N
Y Coordinates : 83 32.799' W

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, some gravel, trace organics, saturated, no odor			LMR11-36-06 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides) LMR11-36-06-MS (PCB Aroclors, Pesticides) LMR11-36-06-MSD (PCB Aroclors, Pesticides)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-37

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-10-11
Sample Date : 08-10-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 72"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.3567
Y Coordinates : 83 32.7215

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, light brown, saturated, no odor			LMR11-37-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, light brown, saturated, no odor			LMR11-37-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, some fine grained sand, dark brown, wet, no odor			LMR11-37-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides) LMR11-37-48-DP (PCB Aroclors, Pesticides)
3			CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-37-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-37-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-37-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 72" bgs						



SEDIMENT LOG OF LMR11-38

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 72"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.538953
Y Coordinates : 83 32.730710

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, light brown, wet, no odor			LMR11-38-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILTY CLAY, trace fine grained sand, light brown, wet, no odor			LMR11-38-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-38-24-DP (SVOCs, Total Metals/Hg, TOC) LMR11-38-24-FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, some fine grained sand, dark brown, wet, no odor			
3		ML				LMR11-38-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-38-48-DP (SVOCs, Total Metals/Hg, TOC)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			
5		ML				LMR11-38-72 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-38-72-DP (SVOCs, Total Metals/Hg, TOC)
6	END OF SEDIMENT BORING AT 72" bgs					



SEDIMENT LOG OF LMR11-39

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.453' N
Y Coordinates : 83 32.657' W

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SANDY SILT, with fine to medium grained sand, trace organics, light brown, saturated, no odor			LMR11-39-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-40

(Page 1 of 1)

<p style="text-align: center;">U.S. EPA Region V Contract: EP-S5-06-04</p> <p style="text-align: center;">Lower Maumee River Toledo, Lucas County, Ohio</p>	<p>Collection Date : 08-10-11</p> <p>Sample Date : 08-10-11</p> <p>Collector : WESTON</p> <p>Collection Method : Ponar/Vibracore</p> <p>Total Depth : 84"</p>	<p>WESTON Geologist : J. Colomb</p> <p>X Coordinates : 41 37.35629</p> <p>Y Coordinates : 83 32.57583</p>
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input checked="" type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides		
			DESCRIPTION			
0		ML			<input checked="" type="checkbox"/>	LMR11-40-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML			<input checked="" type="checkbox"/>	LMR11-40-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML			<input checked="" type="checkbox"/>	LMR11-40-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			<input checked="" type="checkbox"/>	LMR11-40-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SP			<input checked="" type="checkbox"/>	LMR11-40-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SP			<input checked="" type="checkbox"/>	LMR11-40-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		SP			<input checked="" type="checkbox"/>	LMR11-40-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		SP			<input checked="" type="checkbox"/>	LMR11-40-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)

END OF SEDIMENT BORING AT 84" bgs



SEDIMENT LOG OF LMR11-41

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar
Total Depth : 6"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.546' N
Y Coordinates : 83 32.587' W

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SANDY SILT, with fine to medium grained sand, organics, dark brown, saturated, decay odor			LMR11-41-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 6" bgs Ponar only collected at this location						
1						



SEDIMENT LOG OF LMR11-42

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 129"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.425541
Y Coordinates : 83 32.471639

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS	
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)			
DESCRIPTION							
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-42-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-42-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)	
2		ML	CLAYEY SILT, some fine grained sand, dark brown, saturated, no odor			LMR11-42-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-42-48FS (SVOCs, Total Metals/Hg, TOC, Grain Size)	
3			CLAYEY SILT, some fine grained sand, dark brown, wet, no odor, fine to medium grained sand lens at 44"-48"				
4		ML				LMR11-42-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
5							
6		SC	SANDY CLAY, fine grained sand, dark brown, no odor			LMR11-42-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
7							
8		ML	CLAYEY SILT, with fine grained sand, grades to fine to medium sand, shell fragments, dark brown, saturated, no odor			LMR11-42-129 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
9							
10							
11	END OF SEDIMENT BORING AT 129" bgs						



SEDIMENT LOG OF LMR11-43

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 30"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.551' N
Y Coordinates : 83 32.476' W

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		GW	GRAVEL, Well Graded, some cobbles, some fine to medium sand, sark brown, saturated, no odor			LMR11-43-30 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1			SW	SAND, Well Graded, fine to medium sand, with silt, some gravel, light brown, wet, no odor		
2			END OF SEDIMENT BORING AT 30" bgs			
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-44

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 96"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.451073
Y Coordinates : 83 32.371480

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor			LMR11-44-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SANDY SILT, with fine to medium grained sand, grey-brown, saturated, no odor			LMR11-44-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-44-24FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, some fine grained sand, grey-brown, saturated, no odor			
3		ML				LMR11-44-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, some fine grained sand, dark brown, wet, no odor, fine to medium grained sand lens with shell fragments at 49"-55"			
5		ML				LMR11-44-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			
7		ML				LMR11-44-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8			END OF SEDIMENT BORING AT 96" bgs			



SEDIMENT LOG OF LMR11-45

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date. : 08-09-11
Sample Date : 08-09-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 96"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.619347
Y Coordinates : 83 32.367734

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, light brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-45-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-45-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-45-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-45-48FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-45-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-45-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine grained sand, light brown, damp, no odor		<input checked="" type="checkbox"/>	LMR11-45-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine grained sand, light brown, damp, no odor		<input checked="" type="checkbox"/>	LMR11-45-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine grained sand, light brown, damp, no odor		<input checked="" type="checkbox"/>	LMR11-45-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, trace fine grained sand, light brown, damp, no odor		<input checked="" type="checkbox"/>	LMR11-45-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 96" bgs						



SEDIMENT LOG OF LMR11-46

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 93"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.542306
Y Coordinates : 83 32.300440

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-46-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-46-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-46-24FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SANDY SILT, fine grained sand, dark brown, saturated, no odor, fine to medium sand lens at 40"			
3		ML				LMR11-46-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SP	SAND, Poorly Graded, fine to medium sand, shell fragments, light brown, damp, no odor			LMR11-46-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SP				
6		SP	SAND, Poorly Graded, fine to medium grained, dark brown, saturated, no odor, grades to CLAYEY SILT, trace fine sand			LMR11-46-93 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		SP				
8	END OF SEDIMENT BORING AT 93" bgs					



SEDIMENT LOG OF LMR11-47

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 144"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.453409
Y Coordinates : 83 32.222064

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, product odor			LMR11-47-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, trace gravel, dark brown, saturated, product odor			LMR11-47-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SANDY SILT, fine grained sand, dark brown, saturated, product odor, fine to medium sand lens at 44"-48"			LMR11-47-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3			SANDY SILT, fine to medium sand, dark brown, saturated, faint product odor			
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-47-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5			CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			
6		SP	SAND, Poorly Graded, fine to medium sand, light brown, wet, no odor			LMR11-47-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7			SAND, Poorly Graded, fine to medium sand, light brown, wet, no odor			
8		ML	CLAYEY SILT, trace fine to medium sand, dark brown, wet, no odor			LMR11-47-120 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9			CLAYEY SILT, trace fine to medium sand, dark brown, wet, no odor			
10		ML	CLAYEY SILT, trace fine to medium sand, dark brown, wet, no odor			LMR11-47-144 (SVOCs, Total Metals/Hg, TOC, Grain Size)
11			CLAYEY SILT, trace fine to medium sand, dark brown, wet, no odor			
12	END OF SEDIMENT BORING AT 144" bgs					

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SEDIMENT LOG OF LMR11-48

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 61"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.645074
Y Coordinates : 83 32.234111

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-48-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-48-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-48-24FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor			LMR11-48-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-48-61 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5	END OF SEDIMENT BORING AT 61" bgs					
6						



SEDIMENT LOG OF LMR11-49

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 115"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.545' N
Y Coordinates : 83 32.168' W

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
			DESCRIPTION			
0		ML			<input checked="" type="checkbox"/>	LMR11-49-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML			<input checked="" type="checkbox"/>	LMR11-49-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML			<input checked="" type="checkbox"/>	
3		ML			<input checked="" type="checkbox"/>	LMR11-49-48 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
4		ML			<input checked="" type="checkbox"/>	
5		ML			<input checked="" type="checkbox"/>	LMR11-49-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML			<input checked="" type="checkbox"/>	
7		ML			<input checked="" type="checkbox"/>	LMR11-49-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML			<input checked="" type="checkbox"/>	
9		ML			<input checked="" type="checkbox"/>	LMR11-49-115 (SVOCs, Total Metals/Hg, TOC, Grain Size)
10	END OF SEDIMENT BORING AT 115" bgs					



SEDIMENT LOG OF LMR11-50

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 175"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.470024
Y Coordinates : 83 32.001309

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, organics, dark brown with black banding, saturated, product odor			LMR11-50-06 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
1		ML	SILT, trace fine grained sand, dark brown with black banding, saturated, product odor			LMR11-50-06-DP (SVOCs, Total Metals/Hg, TOC) LMR11-50-06-MS (PCB Aroclors, Pesticides) LMR11-50-06-MSD (PCB Aroclors, Pesticides) LMR11-50-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, with fine grained sand, organics, dark brown with black banding, saturated, black banding			LMR11-50-24-DP (SVOCs, Total Metals/Hg, TOC)
3						LMR11-50-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-50-48-DP (SVOCs, Total Metals/Hg, TOC)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown with black banding, saturated, product odor			LMR11-50-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, with fine grained sand, organics, dark brown with black banding, saturated, product odor			LMR11-50-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6						LMR11-50-120 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine grained sand, organics, dark brown with black banding, saturated, product odor, fine to medium sand lens at 96"-100"			LMR11-50-144 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, trace fine grained sand, dark brown with black banding, wet, no odor			LMR11-50-175 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9						
10						
11						
12						
13						
14						
15			END OF SEDIMENT BORING AT 175" bgs			



SEDIMENT LOG OF LMR11-51

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 75"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.645242
Y Coordinates : 83 32.096709

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-75 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-75 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-75 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		X	LMR11-51-75 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 75" bgs						



SEDIMENT LOG OF LMR11-52

(Page 1 of 1)

<p style="text-align: center;">U.S. EPA Region V Contract: EP-S5-06-04</p> <p style="text-align: center;">Lower Maumee River Toledo, Lucas County, Ohio</p>	<p>Collection Date. : 08-08-11</p> <p>Sample Date : 08-08-11</p> <p>Collector : WESTON</p> <p>Collection Method : Ponar/Vibracore</p> <p>Total Depth : 72"</p>	<p>WESTON Geologist : J. Colomb</p> <p>X Coordinates : 41 37.540146</p> <p>Y Coordinates : 83 32.035280</p>
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>☒ Investigative Sample</p> <p>▨ Duplicate Sample</p> <p>■ MS/MSD Sample</p> </div> <div style="width: 45%;"> <p>SVOCs, Total Metals/Hg, TOC, Grain Size (TA)</p> </div> </div>	DESCRIPTION		
0		ML			☒	LMR11-52-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML			☒	LMR11-52-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML			☒	LMR11-52-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			☒	LMR11-52-48FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML			☒	LMR11-52-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML			☒	
6		ML			☒	
END OF SEDIMENT BORING AT 72" bgs						

12-01-2011 C:\Documents and Settings\colombj\Desktop\Work Documents\LMR_Logs\LMR11_52.bor



SEDIMENT LOG OF LMR11-53

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 73"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.75377
Y Coordinates : 83 31.99104

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SANDY SILT, some fine grained sand, organics, dark brown, saturated, no odor		X	LMR11-53-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SANDY SILT, some fine grained sand, some clay, dark brown, saturated, no odor		X	LMR11-53-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SANDY SILT, some fine grained sand, some clay, some gravel, dark brown, no odor		X	LMR11-53-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			X	
4		ML	SANDY SILT, fine to medium sand, light brown, wet, no odor, fine to medium sand lens 50"-53"		X	LMR11-53-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML			X	
6			END OF SEDIMENT BORING AT 73" bgs			



SEDIMENT LOG OF LMR11-54

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 72"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.606430
Y Coordinates : 83 32.024905

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
			DESCRIPTION			
0		ML	SANDY SILT, fine grained sand, shell fragments, light brown, saturated, no odor			LMR11-54-06 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-54-06DP (SVOCs, Total Metals/Hg, TOC)
1		ML	SANDY SILT, fine grained sand, shell fragments, light brown, saturated, no odor			LMR11-54-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-54-24DP (SVOCs, Total Metals/Hg, TOC)
2		ML	SANDY SILT, some fine grained sand, organics, light brown with black banding, no odor, fine to medium sand grained lens at 23"-35"			LMR11-54-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-54-48DP (SVOCs, Total Metals/Hg, TOC)
3			CLAYEY SILT, trace fine grained sand, organics, dark brown, damp, no odor			
4		ML	CLAYEY SILT, trace fine grained sand, organics, dark brown, damp, no odor			LMR11-54-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor, fine to medium grained sand lens at 84"-86"			LMR11-54-86 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor, fine to medium grained sand lens at 84"-86"			LMR11-54-86 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine grained sand, light brown, wet, no odor, fine to medium grained sand lens at 84"-86"			LMR11-54-86 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 86" bgs						



SEDIMENT LOG OF LMR11-55

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 30"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.831066
Y Coordinates : 83 31.937833

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, some gravel, organics, saturated, no odor			LMR11-55-06 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-55-06DP (SVOCs, Total Metals/Hg, TOC)
1		ML	SANDY SILT, trace fine grained sand, organics, dark brown, saturated, no odor, grades to fine to medium sand			
2		ML	SANDY SILT, trace fine grained sand, organics, dark brown, saturated, no odor, grades to fine to medium sand			LMR11-55-30 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-55-30DP (SVOCs, Total Metals/Hg, TOC)
END OF SEDIMENT BORING AT 30" bgs						
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-56

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 36"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.826741
Y Coordinates : 83 31.819791

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor		X	LMR11-56-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, grey-brown, saturated, no odor		X	LMR11-56-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SANDY SILT, with fine grained sand, grey-brown, no odor		X	LMR11-56-30 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3	END OF SEDIMENT BORING AT 36" bgs					
4						
5						
6						



SEDIMENT LOG OF LMR11-57

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 62"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.012891
Y Coordinates : 83 31.961009

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>☒ Investigative Sample</p> <p>▨ Duplicate Sample</p> <p>■ MS/MSD Sample</p> </div> <div style="width: 45%;"> <p>SVOCs, Total Metals/Hg, TOC, Grain Size (TA)</p> </div> </div>	DESCRIPTION		
0		ML			☒	LMR11-57-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML			☒	LMR11-57-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		SP			☒	LMR11-57-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		SP			☒	LMR11-57-62 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SP			☒	LMR11-57-62 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SP			☒	LMR11-57-62 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 62" bgs						



SEDIMENT LOG OF LMR11-58

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Vibracore
Total Depth : 10"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.974137
Y Coordinates : 83 31.814191

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		CH	FAT CLAY, with some gravel, high plasticity, reddish brown, damp, no odor			LMR11-58-10 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1	END OF SEDIMENT BORING AT 10" bgs					
2						
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-59

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 116"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.118656
Y Coordinates : 83 31.993105

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-59-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine grained, dark brown, saturated, no odor			LMR11-59-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-59-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML				
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-59-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML				
6		ML	SANDY SILT, fine to medium grained sand, dark brown, saturated, no odor, fine to medium grained sand seam at 72"-73"			LMR11-59-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML				
8		SP	SAND, Poorly Graded, fine to medium grained sand, dark brown, wet, no odor			LMR11-59-116 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9		SP				
10	END OF SEDIMENT BORING AT 116" bgs					



SEDIMENT LOG OF LMR11-60

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 92"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.222882
Y Coordinates : 83 32.02351

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input checked="" type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-60-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-60-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-60-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-60-48FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			<input checked="" type="checkbox"/>	
4		ML	SANDY SILT, fine to medium grained sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-60-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML			<input checked="" type="checkbox"/>	
6		ML	CLAYEY SILT, fine to medium grained sand, brown with block banding, wet, no odor		<input checked="" type="checkbox"/>	LMR11-60-92 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML			<input checked="" type="checkbox"/>	
8	END OF SEDIMENT BORING AT 92" bgs					



SEDIMENT LOG OF LMR11-61

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 30"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.286946
Y Coordinates : 83 31.911951

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, some fine sand, some cobbles, grey-brown, saturated, no odor		X	LMR11-61-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, fine to medium sand, grey-brown, damp, no odor, grading to SILTY CLAY, with trace fine sand		X	LMR11-61-30 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 30" bgs						
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-62

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 108"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.332252
Y Coordinates : 83 32.048572

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-62-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor			LMR11-62-24 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-62-24-DP (SVOCs, Total Metals/Hg, TOC)
2		ML	CLAYEY SILT, trace fine sand, dark brown with black banding, wet, no odor			LMR11-62-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML				
4		SM	SANDY SILT, fine to medium grained sand, dark brown, wet, no odor; fine to medium sand lens at 48" - 54"			LMR11-62-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SM				
6		SP	SANDY SILT, fine to medium sand, some shell fragments, dark brown, wet, no odor; fine to medium sand lens at 76" to 82"			LMR11-62-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		SP				
8		ML	SANDY SILT, fine to medium sand, dark brown with black banding, wet, no odor			LMR11-62-108 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9		ML				
END OF SEDIMENT BORING AT 108" bgs						



SEDIMENT LOG OF LMR11-63

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-08-11
Sample Date : 08-08-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 115"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.435198
Y Coordinates : 83 32.072600

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS	
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)			
DESCRIPTION							
0		ML	SILT, trace fine sand, dark brown, saturated, slight product odor			LMR11-63-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
1		ML	SILT, trace fine sand, dark brown, saturated, slight product odor			LMR11-63-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
2		ML	CLAYEY SILT, some fine sand, dark brown, wet, slight product odor			LMR11-63-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-63-48-FS (SVOCs, Total Metals/Hg, TOC, Grain Size)	
3			CLAYEY SILT, fine grained sand, dark brown, wet, slight product odor				
4		ML	CLAYEY SILT, trace fine sand, dark brown, wet, slight product odor			LMR11-63-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
5			CLAYEY SILT, trace fine sand, dark brown, wet, slight product odor				
6		ML	CLAYEY SILT, trace fine sand, dark brown, wet, slight product odor			LMR11-63-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
7			CLAYEY SILT, trace fine to medium sand, shell fragments, some organics, dark brown, slight product odor				
8		ML	CLAYEY SILT, trace fine to medium sand, shell fragments, some organics, dark brown, slight product odor			LMR11-63-115 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
9			CLAYEY SILT, trace fine to medium sand, shell fragments, some organics, dark brown, slight product odor				
10	END OF SEDIMENT BORING AT 115" bgs						



SEDIMENT LOG OF LMR11-64

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 88"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.502149
Y Coordinates : 83 32.050110

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>☒ Investigative Sample</p> <p>▨ Duplicate Sample</p> <p>■ MS/MSD Sample</p> </div> <div style="width: 45%;"> <p>SVOCs, Total Metals/Hg, TOC, Grain Size (TA)</p> </div> </div>	DESCRIPTION		
0		ML			☒	LMR11-64-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML			☒	LMR11-64-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML			☒	LMR11-64-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML			☒	LMR11-64-88 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML			☒	LMR11-64-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML			☒	LMR11-64-88 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML			☒	LMR11-64-88 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML			☒	LMR11-64-88 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8	END OF SEDIMENT BORING AT 88" bgs					



SEDIMENT LOG OF LMR11-65

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 24"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.656585
Y Coordinates : 83 32.036331

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SM	SANDY SILT, fine to medium sand, dark brown, saturated, no odor			LMR11-65-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SM	SANDY SILT, fine to medium grained sand, dark brown, saturated, no odor			
2	END OF SEDIMENT BORING AT 24" bgs					
3						
4						
5						
6						



SEDIMENT LOG OF LMR11-66

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 117"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.654401
Y Coordinates : 83 31.900787

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input checked="" type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-66-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-66-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-66-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-66-48-FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
3						
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-66-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5						
6		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-66-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7						
8		SP	SAND, Poorly Graded, fine to medium grained, dark brown, saturated, no odor			LMR11-66-117 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9						
10	END OF SEDIMENT BORING AT 117" bgs					



SEDIMENT LOG OF LMR11-67

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 77"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.835492
Y Coordinates : 83 32.001339

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input checked="" type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-67-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-67-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-67-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-67-77 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			
5		ML				
6		ML				
7		ML				
END OF SEDIMENT BORING AT 77" bgs						



SEDIMENT LOG OF LMR11-68

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 96"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.840761
Y Coordinates : 83 31.848410

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, organic odor			LMR11-68-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, organic odor			LMR11-68-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SILT, trace fine sand, dark brown, saturated, organic odor			LMR11-68-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	SILT, trace fine sand, dark brown, saturated, organic odor			LMR11-68-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-68-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-68-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-68-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-68-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-68-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 96" bgs						



SEDIMENT LOG OF LMR11-70

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 85"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.947150
Y Coordinates : 83 31.798020

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-70-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-70-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	SILT, trace fine sand, dark brown, saturated, no odor			
3		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-70-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SP	SAND, Poorly Graded, fine to medium grained, some organics, black, wet, no odor; grades to CLAYEY SILT			LMR11-70-72 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-70-72-FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SP	SAND, Poorly Graded, fine to medium grained, some organics, black, wet, no odor; grades to CLAYEY SILT			
6		ML	CLAYEY SILT, some fine sand, dark brown, wet, no odor; native clay at 85"			LMR11-70-85 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, some fine sand, dark brown, wet, no odor; native clay at 85"			
END OF SEDIMENT BORING AT 85" bgs						
8						



SEDIMENT LOG OF LMR11-71

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-06-11
Sample Date : 08-06-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 161"

WESTON Geologist : J. Colomb
X Coordinates : 41 38.954561
Y Coordinates : 83 31.670261

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-71-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-71-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides) LMR11-71-24-FS (PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor		X	
3		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-71-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor		X	
5		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-71-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor		X	
7		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-71-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, some fine sand, dark brown, wet, no odor		X	
9		ML	CLAYEY SILT, some fine sand, dark brown, wet, no odor		X	LMR11-71-120 (SVOCs, Total Metals/Hg, TOC, Grain Size)
10		SM	SANDY SILT, fine grained sand, dark brown, wet, no odor		X	
11		SM	SANDY SILT, fine grained sand, dark brown, wet, no odor		X	LMR11-71-148 (SVOCs, Total Metals/Hg, TOC, Grain Size)
12		ML	CLAYEY SILT, some fine sand, wet, dark brown, no odor		X	
13		ML	CLAYEY SILT, some fine sand, wet, dark brown, no odor		X	LMR11-71-161 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 161" bgs						



SEDIMENT LOG OF LMR11-72

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 35"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.063258
Y Coordinates : 83 31.839265

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-72-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SW	SAND, Well Graded, fine to coarse grained sand, some gravel, some silt, brown, saturated, no odor			LMR11-72-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		SM	SILTY SAND, fine grained sand, brown, damp, no odor			LMR11-72-35 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3	END OF SEDIMENT BORING AT 35" bgs					
4						
5						
6						



SEDIMENT LOG OF LMR11-73

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-07-11
Sample Date : 08-07-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 42"

WESTON Geologist : J. Colomb
X Coordinates : 41 37.743010
Y Coordinates : 83 31.819121

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor			LMR11-73-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, trace organics, dark brown, saturated, no odor			LMR11-73-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor; fine to medium sand lens at 32" to 37".			LMR11-73-42 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 42" bgs						
4						



SEDIMENT LOG OF LMR11-74

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 85"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.103658
Y Coordinates : 83 31.686007

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
			DESCRIPTION			
0		ML	CLAYEY SILT, trace fine grained sand, dark brown, wet, no odor			LMR11-74-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor			LMR11-74-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor			LMR11-74-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor			LMR11-74-48FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor; fine to medium grained sand lens at 68" to 69"			LMR11-74-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor; fine to medium grained sand lens at 68" to 69"			LMR11-74-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		SP	SAND, Well Graded, fine to coarse, with some gravel, dark brown, saturated, no odor			LMR11-74-85 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		SP	SAND, Well Graded, fine to coarse, with some gravel, dark brown, saturated, no odor			LMR11-74-85 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 85" bgs						



SEDIMENT LOG OF LMR11-75

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 80"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.1253698
Y Coordinates : 83 31.553229

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides		
			DESCRIPTION			
0		ML	CLAYEY SILT, trace fine grained sand, dark brown, saturated, no odor			LMR11-75-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-75-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			
3		ML	CLAYEY SILT, trace fine sand, dark brown, saturated, no odor			LMR11-75-48 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-75-48FS (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine to medium sand, dark brown, saturated, no odor; grades to fine to coarse sand and gravel, with shell fragments			
5		ML				
6		ML				LMR11-75-80 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7	END OF SEDIMENT BORING AT 80" bgs					



SEDIMENT LOG OF LMR11-76

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 120"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.212416
Y Coordinates : 83 31.482172

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides		
			DESCRIPTION			
0		ML	CLAYEY SILT, trace fine grained sand, grey-black, saturated, no odor			LMR11-76-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	CLAYEY SILT, trace fine sand, grey-brown, saturated, no odor; fine to medium sand lens at 16" -20"			LMR11-76-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides)
2		ML	CLAYEY SILT, trace fine sand, grey-brown, wet, no odor			LMR11-76-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	CLAYEY SILT, trace fine sand, grey-brown, wet, no odor			LMR11-76-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	CLAYEY SILT, trace fine sand, grey-brown, wet, no odor			LMR11-76-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	CLAYEY SILT, trace fine sand, grey-brown with black banding; wet, no odor			LMR11-76-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine sand, grey-brown with black banding; wet, no odor			LMR11-76-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine sand, grey-brown with black banding; wet, no odor			LMR11-76-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, trace fine sand, grey-brown with black banding, wet, no odor; fine to medium sand lens with shell fragments at 118"			LMR11-76-120 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9		ML	CLAYEY SILT, trace fine sand, grey-brown with black banding, wet, no odor; fine to medium sand lens with shell fragments at 118"			LMR11-76-120 (SVOCs, Total Metals/Hg, TOC, Grain Size)
10	END OF SEDIMENT BORING AT 120" bgs					



SEDIMENT LOG OF LMR11-77

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 120"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.234551
Y Coordinates : 83 31.357649

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-77-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-77-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SILT, trace fine sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-77-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	SILT, trace fine sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-77-80 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		ML	SILT, trace fine sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-77-112 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		ML	SILT, trace fine sand, dark brown, saturated, no odor		<input checked="" type="checkbox"/>	LMR11-77-144 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-77-176 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-77-208 (SVOCs, Total Metals/Hg, TOC, Grain Size)
8		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-77-240 (SVOCs, Total Metals/Hg, TOC, Grain Size)
9		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-77-272 (SVOCs, Total Metals/Hg, TOC, Grain Size)
10		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor		<input checked="" type="checkbox"/>	LMR11-77-304 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 120" bgs						



SEDIMENT LOG OF LMR11-78

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Vibracore
Total Depth : 14"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.300659
Y Coordinates : 83 31.277895

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
			DESCRIPTION			
0		ML	SILT, trace fine grained sand, dark brown, wet, no odor; grades to fine to coarse sand with shell fragments, poorly graded			
1						LMR11-78-14 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 14" bgs						



SEDIMENT LOG OF LMR11-79

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U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date. : 08-04-11
Sample Date : 08-04-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 54"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.412993
Y Coordinates : 83 31.329944

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>☒ Investigative Sample</p> <p>▨ Duplicate Sample</p> <p>■ MS/MSD Sample</p> </div> <div style="width: 45%;"> <p>SVOCs, Total Metals/Hg, TOC, Grain Size (TA) PCB Aroclors, Pesticides (CLP)</p> </div> </div>	DESCRIPTION		
0		ML			☒	LMR11-79-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML			☒	LMR11-79-24 (SVOCs, Total Metals/Hg, TOC, Grain Size, PCB Aroclors, Pesticides) LMR11-79-24-FS (PCB Aroclors, Pesticides)
2		ML			☒	
3		ML			☒	
4		CH			☒	LMR11-79-54 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 54" bgs						
5						
6						



SEDIMENT LOG OF LMR11-80

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 56"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.319786
Y Coordinates : 83 31.166921

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
			DESCRIPTION			
0		SM	SANDY SILT, fine grained sand, dark brown, saturated, no odor			LMR11-80-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, some fine grained sand, dark brown, wet, no odor,			LMR11-80-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	SILT, some fine sand, dark brown, wet, no odor; sand lens at 35" - 38"			LMR11-80-56 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3						
4						
5	END OF SEDIMENT BORING AT 56" bgs					



SEDIMENT LOG OF LMR11-81

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 19"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.4007
Y Coordinates : 83 31.195262

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, fine grained sand, trace gravel, light brown, saturated, no odor			LMR11-81-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, fine to medium grained, some shell fragments, light brown, damp, no odor			
END OF SEDIMENT BORING AT 19" bgs						
2						



SEDIMENT LOG OF LMR11-82

(Page 1 of 1)

<p style="text-align: center;">U.S. EPA Region V Contract: EP-S5-06-04</p> <p style="text-align: center;">Lower Maumee River Toledo, Lucas County, Ohio</p>	<p>Collection Date. : 08-05-11</p> <p>Sample Date : 08-05-11</p> <p>Collector : WESTON</p> <p>Collection Method : Ponar/Vibracore</p> <p>Total Depth : 55"</p>	<p>WESTON Geologist : J. Colomb</p> <p>X Coordinates : 41 39.399073</p> <p>Y Coordinates : 83 31.056224</p>
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			<input type="checkbox"/> Investigative Sample <input type="checkbox"/> Duplicate Sample <input type="checkbox"/> MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		SP	SAND, Poorly Graded, fine to medium grained, some silt, dark brown, saturated, no odor		X	LMR11-82-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		SP	SAND, Poorly Graded, fine to medium grained, some silt, dark brown, saturated, no odor		X	LMR11-82-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		SP	SAND, Poorly Graded, fine to medium grained, some silt, dark brown, saturated, no odor		X	LMR11-82-55 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		SP			X	
4		SP			X	
5	END OF SEDIMENT BORING AT 55" bgs					



SEDIMENT LOG OF LMR11-83

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date. : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 87"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.492565
Y Coordinates : 83 30.978776

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-83-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine sand, dark brown, saturated, no odor		X	LMR11-83-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine sand, dark brown, wet, no odor; fine to medium sand lens at 26" - 34"		X	
3		ML			X	LMR11-83-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SM	SANDY SILT, fine to coarse grained sand, dark brown, saturated, no odor		X	
5		SM			X	LMR11-83-72 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		SW	SAND, Well Graded, fine to coarse grained, some silt, shell fragments, dark brown, no odor		X	
7		SW			X	LMR11-83-87 (SVOCs, Total Metals/Hg, TOC, Grain Size)
END OF SEDIMENT BORING AT 87" bgs						



SEDIMENT LOG OF LMR11-84

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 115"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.487490
Y Coordinates : 83 30.847300

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS	
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)			
DESCRIPTION							
0		ML	SILT, fine grained sand, dark brown, saturated, no odor			LMR11-84-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
1		ML	SILT, fine grained sand, dark brown, saturated, no odor			LMR11-84-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
2		ML	CLAYEY SILT, fine sand, dark brown, saturated, no odor				
3		ML				LMR11-84-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
4		SM	SANDY SILT, fine to medium grained sand, dark brown, saturated, no odor				
5		SM				LMR11-84-72 (SVOCs, Total Metals/Hg, TOC, Grain Size) LMR11-84-72-DP (SVOCs, Total Metals/Hg, TOC)	
6		SM	SANDY SILT, fine to coarse grained, dark brown, saturated, no odor				
7		SM				LMR11-84-96 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
8		SP	SAND, Poorly Graded, fine to coarse grained, some shell fragments, dark brown, saturated, no odor				
9		SP				LMR11-84-115 (SVOCs, Total Metals/Hg, TOC, Grain Size)	
10	END OF SEDIMENT BORING AT 115" bgs						



SEDIMENT LOG OF LMR11-85

(Page 1 of 1)

U.S. EPA Region V
Contract: EP-S5-06-04

Lower Maumee River
Toledo, Lucas County, Ohio

Collection Date : 08-05-11
Sample Date : 08-05-11
Collector : WESTON
Collection Method : Ponar/Vibracore
Total Depth : 74"

WESTON Geologist : J. Colomb
X Coordinates : 41 39.585142
Y Coordinates : 83 30.771467

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	SAMPLE INTERVAL	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	SVOCs, Total Metals/Hg, TOC, Grain Size (TA)		
DESCRIPTION						
0		ML	SILT, trace fine grained sand, some detritus, light brown, saturated, no odor			LMR11-85-06 (SVOCs, Total Metals/Hg, TOC, Grain Size)
1		ML	SILT, trace fine grained sand, some detritus, light brown, saturated, no odor			LMR11-85-24 (SVOCs, Total Metals/Hg, TOC, Grain Size)
2		ML	CLAYEY SILT, trace fine sand, light brown, saturated, no odor			LMR11-85-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
3		ML	CLAYEY SILT, trace fine sand, light brown, saturated, no odor			LMR11-85-48 (SVOCs, Total Metals/Hg, TOC, Grain Size)
4		SM	SANDY SILT, trace fine grained sand, some shell fragments, light brown, saturated, no odor			LMR11-85-74 (SVOCs, Total Metals/Hg, TOC, Grain Size)
5		SM	SANDY SILT, trace fine grained sand, some shell fragments, light brown, saturated, no odor			LMR11-85-74 (SVOCs, Total Metals/Hg, TOC, Grain Size)
6		SM	SANDY SILT, trace fine grained sand, some shell fragments, light brown, saturated, no odor			LMR11-85-74 (SVOCs, Total Metals/Hg, TOC, Grain Size)
7	END OF SEDIMENT BORING AT 74" bgs					
8	END OF SEDIMENT BORING AT 74" bgs					

APPENDIX B
ANALYTICAL DATA TABLES

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-01	LMR11-01	LMR11-01	LMR11-01	LMR11-02
		Field Sample ID	LMR11-01-006	LMR11-01-024	LMR11-01-048	LMR11-01-060	LMR11-02-006
		Sample Date	8/2/2011	8/5/2011	8/5/2011	8/5/2011	8/2/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 60	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,4,5-Trichlorophenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,4,6-Trichlorophenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,4-Dichlorophenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,4-Dimethylphenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,4-Dinitrophenol	NL	µg/kg	470 U	360 U	290 UJ	230 UJ	270 U
2,4-Dinitrotoluene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2,6-Dinitrotoluene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2-Chloronaphthalene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2-Chlorophenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2-Methylnaphthalene	NL	µg/kg	4.7 UJ	3.6 U	2.9 UJ	2.3 UJ	2.7 UJ
2-Methylphenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
2-Nitroaniline	NL	µg/kg	470 U	360 U	290 UJ	230 UJ	270 U
2-Nitrophenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
3,3'-Dichlorobenzidine	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
3-Nitroaniline	NL	µg/kg	470 U	360 U	290 UJ	230 UJ	270 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	470 U	360 U	290 UJ	230 UJ	270 U
4-Bromophenyl-phenylether	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
4-Chloro-3-methylphenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
4-Chloroaniline	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
4-Chlorophenyl-phenylether	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
4-Methylphenol	NL	µg/kg	240 U	190 U	30 J	120 UJ	140 U
4-Nitroaniline	NL	µg/kg	470 U	360 U	290 UJ	230 UJ	270 U
4-Nitrophenol	NL	µg/kg	470 U	360 U	290 UJ	230 UJ	270 U
Acenaphthene	NL	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Acenaphthylene	NL	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Acetophenone	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Anthracene	845	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Atrazine	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Benzaldehyde	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Benzo(a)anthracene	1050	µg/kg	5.3	3.6 U	5.9 J	2.3 UJ	3.1
Benzo(a)pyrene	1450	µg/kg	8.3	3.6 U	2.9 UJ	2.3 UJ	2.7 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-01	LMR11-01	LMR11-01	LMR11-01	LMR11-02
		Field Sample ID	LMR11-01-006	LMR11-01-024	LMR11-01-048	LMR11-01-060	LMR11-02-006
		Sample Date	8/2/2011	8/5/2011	8/5/2011	8/5/2011	8/2/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 60	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5	5.6	2.9 UJ	2.3 UJ	2.7 U
Benzo(g,h,i)perylene	NL	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Benzo(k)fluoranthene	NL	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Bis(2-chloroethoxy)methane	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Bis(2-chloroethyl)ether	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Butylbenzylphthalate	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Caprolactam	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Carbazole	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Chrysene	1290	µg/kg	6.4	3.6 U	6.1 J	2.3 UJ	3.2
Dibenzo(a,h)anthracene	NL	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Dibenzofuran	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Diethylphthalate	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Dimethylphthalate	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Di-n-butylphthalate	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Di-n-octylphthalate	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Fluoranthene	2230	µg/kg	11	7.9	13 J	2.9 J	5.8
Fluorene	536	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Hexachlorobenzene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Hexachlorobutadiene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Hexachlorocyclopentadiene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Hexachloroethane	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Isophorone	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Naphthalene	561	µg/kg	4.7 U	3.6 U	2.9 UJ	2.3 UJ	2.7 U
Nitrobenzene	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
N-Nitroso-di-n-propylamine	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
N-Nitrosodiphenylamine	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Pentachlorophenol	NL	µg/kg	9.5 U	7.4 UJ	5.9 UJ	4.7 UJ	5.4 U
Phenanthrene	1170	µg/kg	5.2	5.6	9.4 J	4.2 J	2.8
Phenol	NL	µg/kg	240 U	190 U	150 UJ	120 UJ	140 U
Pyrene	1520	µg/kg	14	6.8	12 J	3.1 J	5.6 J
Total PAH 17	22800	µg/kg	78.7	49.3	63.8	26.3	36.7
TOC	NL	mg/kg	25,000	23,600	18,800	11,300	10,900 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-03	LMR11-03	LMR11-03	LMR11-03	LMR11-04
		Field Sample ID	LMR11-03-006	LMR11-03-024	LMR11-03-048	LMR11-03-059	LMR11-04-006
		Sample Date	8/3/2011	8/3/2011	8/3/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 59	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,4,5-Trichlorophenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,4,6-Trichlorophenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,4-Dichlorophenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,4-Dimethylphenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,4-Dinitrophenol	NL	µg/kg	360 U	350 U	330 U	300 U	280 U
2,4-Dinitrotoluene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2,6-Dinitrotoluene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2-Chloronaphthalene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2-Chlorophenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2-Methylnaphthalene	NL	µg/kg	3.6 UJ	3.5 U	3.3 U	3 U	2.8 UJ
2-Methylphenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
2-Nitroaniline	NL	µg/kg	360 U	350 U	330 U	300 U	280 U
2-Nitrophenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
3,3'-Dichlorobenzidine	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
3-Nitroaniline	NL	µg/kg	360 U	350 U	330 U	300 U	280 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	360 U	350 U	330 U	300 U	280 U
4-Bromophenyl-phenylether	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
4-Chloro-3-methylphenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
4-Chloroaniline	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
4-Chlorophenyl-phenylether	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
4-Methylphenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
4-Nitroaniline	NL	µg/kg	360 U	350 U	330 U	300 U	280 U
4-Nitrophenol	NL	µg/kg	360 U	350 U	330 U	300 U	280 U
Acenaphthene	NL	µg/kg	3.6 U	3.5 U	3.3 U	3 U	2.8 U
Acenaphthylene	NL	µg/kg	3.6 U	3.5 U	3.3 U	3 U	2.8 U
Acetophenone	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Anthracene	845	µg/kg	4.8	3.5 U	3.3 U	3.7	4.9
Atrazine	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Benzaldehyde	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Benzo(a)anthracene	1050	µg/kg	15	4.6	9.7	10	19
Benzo(a)pyrene	1450	µg/kg	12	8.9	12	12	10

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-03	LMR11-03	LMR11-03	LMR11-03	LMR11-04
		Field Sample ID	LMR11-03-006	LMR11-03-024	LMR11-03-048	LMR11-03-059	LMR11-04-006
		Sample Date	8/3/2011	8/3/2011	8/3/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 59	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	16	7.6	12	13	16
Benzo(g,h,i)perylene	NL	µg/kg	3.6 U	3.5 U	4.8	5.1	2.8 U
Benzo(k)fluoranthene	NL	µg/kg	10	3.5 U	5.7	5	15
Bis(2-chloroethoxy)methane	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Bis(2-chloroethyl)ether	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	180 UJ	180 U	170 U	1100	140 UJ
Butylbenzylphthalate	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Caprolactam	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Carbazole	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Chrysene	1290	µg/kg	15	5.8	9.8	12	22
Dibenzo(a,h)anthracene	NL	µg/kg	3.6 U	3.5 U	3.3 U	3 U	2.8 U
Dibenzofuran	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Diethylphthalate	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Dimethylphthalate	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Di-n-butylphthalate	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Di-n-octylphthalate	NL	µg/kg	180 UJ	180 U	170 U	160 U	140 UJ
Fluoranthene	2230	µg/kg	33	9.1	15	19	51
Fluorene	536	µg/kg	3.6 U	3.5 U	3.3 U	3 U	2.8 U
Hexachlorobenzene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Hexachlorobutadiene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Hexachlorocyclopentadiene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Hexachloroethane	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.6 U	3.5 U	5.7	5.7	7.4
Isophorone	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Naphthalene	561	µg/kg	3.6 U	3.5 U	3.3 U	3 U	2.8 U
Nitrobenzene	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
N-Nitroso-di-n-propylamine	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
N-Nitrosodiphenylamine	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Pentachlorophenol	NL	µg/kg	7.2 U	7.2 U	6.7 U	6.2 U	5.6 U
Phenanthrene	1170	µg/kg	16	5.4	6.8	14	14
Phenol	NL	µg/kg	180 U	180 U	170 U	160 U	140 U
Pyrene	1520	µg/kg	24	8.8	14	21	42
Total PAH 17	22800	µg/kg	160.2	67.7	107.05	129.5	210.75
TOC	NL	mg/kg	28,600	33,900	46,000	36,200	18,100

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-05	LMR11-05	LMR11-06	LMR11-06	LMR11-06
		Field Sample ID	LMR11-05-006	LMR11-05-018	LMR11-06-006	LMR11-06-024	LMR11-06-052
		Sample Date	8/4/2011	8/4/2011	8/3/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 18	0- 6	6- 24	24- 52
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,4,5-Trichlorophenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,4,6-Trichlorophenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,4-Dichlorophenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,4-Dimethylphenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,4-Dinitrophenol	NL	µg/kg	320 U	320 U	460 U	400 U	360 U
2,4-Dinitrotoluene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2,6-Dinitrotoluene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2-Chloronaphthalene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2-Chlorophenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2-Methylnaphthalene	NL	µg/kg	3.2 U	3.2 U	4.6 UJ	4 U	3.6 U
2-Methylphenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
2-Nitroaniline	NL	µg/kg	320 U	320 U	460 U	400 U	360 U
2-Nitrophenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
3,3'-Dichlorobenzidine	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
3-Nitroaniline	NL	µg/kg	320 U	320 U	460 U	400 U	360 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	320 U	320 U	460 U	400 U	360 U
4-Bromophenyl-phenylether	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
4-Chloro-3-methylphenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
4-Chloroaniline	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
4-Chlorophenyl-phenylether	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
4-Methylphenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
4-Nitroaniline	NL	µg/kg	320 U	320 U	460 U	400 U	360 U
4-Nitrophenol	NL	µg/kg	320 U	320 U	460 U	400 U	360 U
Acenaphthene	NL	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Acenaphthylene	NL	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Acetophenone	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Anthracene	845	µg/kg	3.2 U	3.2 U	4.6 U	4 U	5.6
Atrazine	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Benzaldehyde	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Benzo(a)anthracene	1050	µg/kg	3.2 U	3.6	6.8	4.3	4.6
Benzo(a)pyrene	1450	µg/kg	5.7	5.5	5.7	8.4	6.4

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-05	LMR11-05	LMR11-06	LMR11-06	LMR11-06
		Field Sample ID	LMR11-05-006	LMR11-05-018	LMR11-06-006	LMR11-06-024	LMR11-06-052
		Sample Date	8/4/2011	8/4/2011	8/3/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 18	0- 6	6- 24	24- 52
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	4.5	4.1	4.6 U	6.3	4.9
Benzo(g,h,i)perylene	NL	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Benzo(k)fluoranthene	NL	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Bis(2-chloroethoxy)methane	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Bis(2-chloroethyl)ether	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	65 J	160 U	240 U	210 U	180 U
Butylbenzylphthalate	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Caprolactam	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Carbazole	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Chrysene	1290	µg/kg	3.6	3.6	7	5.1	4.9
Dibenzo(a,h)anthracene	NL	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Dibenzofuran	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Diethylphthalate	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Dimethylphthalate	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Di-n-butylphthalate	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Di-n-octylphthalate	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Fluoranthene	2230	µg/kg	7.3	6.9	19	11	11
Fluorene	536	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Hexachlorobenzene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Hexachlorobutadiene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Hexachlorocyclopentadiene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Hexachloroethane	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.2 U	3.2 U	4.6 U	4 U	3.6 U
Isophorone	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Naphthalene	561	µg/kg	3.2 U	3.2 U	4.6 U	4 U	4.5
Nitrobenzene	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
N-Nitroso-di-n-propylamine	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
N-Nitrosodiphenylamine	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Pentachlorophenol	NL	µg/kg	6.5 U	6.5 U	9.4 U	8.1 U	7.2 U
Phenanthrene	1170	µg/kg	3.8	4.3	12	5.9	12
Phenol	NL	µg/kg	170 U	160 U	240 U	210 U	180 U
Pyrene	1520	µg/kg	6.3	7.1	19	9.4	9.5
Total PAH 17	22800	µg/kg	48.8	51.1	94.8	70.4	77.8
TOC	NL	mg/kg	16,900	18,000	35,800	24,400	23,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-07	LMR11-08	LMR11-08	LMR11-08	LMR11-10
		Field Sample ID	LMR11-07-006	LMR11-08-006	LMR11-08-024	LMR11-08-052	LMR11-10-006
		Sample Date	8/3/2011	8/3/2011	8/5/2011	8/5/2011	8/4/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 52	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 UJ	250 UJ	21 UJ	180 UJ	130 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 U	250 U	25 UJ	180 UJ	130 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 U	250 U	29 UJ	180 UJ	130 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 U	250 U	29 UJ	180 UJ	130 U
2,4,5-Trichlorophenol	NL	µg/kg	160 U	250 U	37 UJ	180 UJ	130 U
2,4,6-Trichlorophenol	NL	µg/kg	160 U	250 U	43 UJ	180 UJ	130 U
2,4-Dichlorophenol	NL	µg/kg	160 U	250 U	43 UJ	180 UJ	130 U
2,4-Dimethylphenol	NL	µg/kg	160 U	250 U	37 UJ	180 UJ	130 U
2,4-Dinitrophenol	NL	µg/kg	320 U	480 U	57 UJ	350 UJ	250 U
2,4-Dinitrotoluene	NL	µg/kg	160 U	250 U	27 UJ	180 UJ	130 U
2,6-Dinitrotoluene	NL	µg/kg	160 U	250 U	38 UJ	180 UJ	130 U
2-Chloronaphthalene	NL	µg/kg	160 U	250 U	28 UJ	180 UJ	130 U
2-Chlorophenol	NL	µg/kg	160 U	250 U	30 UJ	180 UJ	130 U
2-Methylnaphthalene	NL	µg/kg	3.2 UJ	4.8 UJ	1.3 UJ	3.5 UJ	2.5 U
2-Methylphenol	NL	µg/kg	160 U	250 U	38 UJ	180 UJ	130 U
2-Nitroaniline	NL	µg/kg	320 U	480 U	38 UJ	350 UJ	250 U
2-Nitrophenol	NL	µg/kg	160 U	250 U	35 UJ	180 UJ	130 U
3,3'-Dichlorobenzidine	NL	µg/kg	160 U	250 U	9.1 UJ	180 UJ	130 U
3-Nitroaniline	NL	µg/kg	320 U	480 U	39 UJ	350 UJ	250 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	320 U	480 U	48 UJ	350 UJ	250 U
4-Bromophenyl-phenylether	NL	µg/kg	160 UJ	250 UJ	30 UJ	180 UJ	130 U
4-Chloro-3-methylphenol	NL	µg/kg	160 U	250 U	37 UJ	180 UJ	130 U
4-Chloroaniline	NL	µg/kg	160 U	250 U	31 UJ	180 UJ	130 U
4-Chlorophenyl-phenylether	NL	µg/kg	160 UJ	250 UJ	29 UJ	180 UJ	130 U
4-Methylphenol	NL	µg/kg	160 U	250 U	32 UJ	180 UJ	130 U
4-Nitroaniline	NL	µg/kg	320 U	480 U	59 UJ	350 UJ	250 U
4-Nitrophenol	NL	µg/kg	320 U	480 U	71 UJ	350 UJ	250 U
Acenaphthene	NL	µg/kg	3.2 U	4.8 U	1.1 UJ	3.5 UJ	2.5 U
Acenaphthylene	NL	µg/kg	3.2 U	4.8 U	1.1 UJ	3.5 UJ	2.5 U
Acetophenone	NL	µg/kg	160 U	250 U	52 UJ	180 UJ	130 U
Anthracene	845	µg/kg	3.2 U	4.8 U	1.1 UJ	3.5 UJ	3.1
Atrazine	NL	µg/kg	160 U	250 U	31 UJ	180 UJ	130 U
Benzaldehyde	NL	µg/kg	160 U	250 U	27 UJ	180 UJ	130 U
Benzo(a)anthracene	1050	µg/kg	3.2 U	4.8 U	6.7 J	3.5 UJ	9.8
Benzo(a)pyrene	1450	µg/kg	3.2 U	4.8 U	9.3 J	3.5 UJ	8.4

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-07	LMR11-08	LMR11-08	LMR11-08	LMR11-10
		Field Sample ID	LMR11-07-006	LMR11-08-006	LMR11-08-024	LMR11-08-052	LMR11-10-006
		Sample Date	8/3/2011	8/3/2011	8/5/2011	8/5/2011	8/4/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 52	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	3.2 U	4.8 U	9.3 J	3.5 UJ	10
Benzo(g,h,i)perylene	NL	µg/kg	3.2 U	4.8 U	4.8 J	3.5 UJ	3.4
Benzo(k)fluoranthene	NL	µg/kg	3.2 U	4.8 U	1.2 UJ	3.5 UJ	5.8
Bis(2-chloroethoxy)methane	NL	µg/kg	160 U	250 U	48 UJ	180 UJ	130 U
Bis(2-chloroethyl)ether	NL	µg/kg	160 U	250 U	25 UJ	180 UJ	130 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 UJ	250 UJ	47 UJ	180 UJ	93 J
Butylbenzylphthalate	NL	µg/kg	160 UJ	250 UJ	45 UJ	180 UJ	130 U
Caprolactam	NL	µg/kg	160 UJ	250 UJ	63 UJ	180 UJ	130 U
Carbazole	NL	µg/kg	160 UJ	250 UJ	43 UJ	180 UJ	130 U
Chrysene	1290	µg/kg	4.4	4.8 U	7.1 J	3.5 UJ	11
Dibenzo(a,h)anthracene	NL	µg/kg	3.2 U	4.8 U	0.83 UJ	3.5 UJ	2.5 U
Dibenzofuran	NL	µg/kg	160 UJ	250 UJ	25 UJ	180 UJ	130 U
Diethylphthalate	NL	µg/kg	160 UJ	250 UJ	34 UJ	180 UJ	130 U
Dimethylphthalate	NL	µg/kg	160 UJ	250 UJ	39 UJ	180 UJ	130 U
Di-n-butylphthalate	NL	µg/kg	160 UJ	250 UJ	25 UJ	180 UJ	130 U
Di-n-octylphthalate	NL	µg/kg	160 UJ	250 UJ	27 UJ	180 UJ	130 U
Fluoranthene	2230	µg/kg	8.9	4.8 U	9.9 J	6.6 J	21
Fluorene	536	µg/kg	3.2 U	4.8 U	1 UJ	3.5 UJ	2.5 U
Hexachlorobenzene	NL	µg/kg	160 U	250 U	46 UJ	180 UJ	130 U
Hexachlorobutadiene	NL	µg/kg	160 U	250 U	46 UJ	180 UJ	130 U
Hexachlorocyclopentadiene	NL	µg/kg	160 U	250 U	28 UJ	180 UJ	130 U
Hexachloroethane	NL	µg/kg	160 U	250 U	35 UJ	180 UJ	130 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.2 U	4.8 U	4.2 J	3.5 UJ	4.6
Isophorone	NL	µg/kg	160 U	250 U	35 UJ	180 UJ	130 U
Naphthalene	561	µg/kg	3.2 U	4.8 U	2 UJ	3.5 UJ	2.5 U
Nitrobenzene	NL	µg/kg	160 U	250 U	25 UJ	180 UJ	130 U
N-Nitroso-di-n-propylamine	NL	µg/kg	160 U	250 U	48 UJ	180 UJ	130 U
N-Nitrosodiphenylamine	NL	µg/kg	160 U	250 U	25 UJ	180 UJ	130 U
Pentachlorophenol	NL	µg/kg	6.4 U	9.7 U	6.4 UJ	7 UJ	5.1 U
Phenanthrene	1170	µg/kg	6	4.8 U	5.2 J	4.9 J	11
Phenol	NL	µg/kg	160 U	250 U	41 UJ	180 UJ	130 U
Pyrene	1520	µg/kg	7.9	7.1	12 J	6 J	19
Total PAH 17	22800	µg/kg	48	45.5	83.3	42	114.6
TOC	NL	mg/kg	7,180	27,700	27,500	22,200	9,830

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-10	LMR11-10	LMR11-11	LMR11-11	LMR11-11
		Field Sample ID	LMR11-10-024	LMR11-10-045	LMR11-11-006	LMR11-11-024	LMR11-11-037
		Sample Date	8/4/2011	8/4/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	6- 24	24- 45	0- 6	6- 24	24- 37
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,4,5-Trichlorophenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,4,6-Trichlorophenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,4-Dichlorophenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,4-Dimethylphenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,4-Dinitrophenol	NL	µg/kg	240 U	240 U	230 UJ	290 UJ	250 UJ
2,4-Dinitrotoluene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2,6-Dinitrotoluene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2-Chloronaphthalene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2-Chlorophenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2-Methylnaphthalene	NL	µg/kg	2.4 U	2.4 U	2.3 UJ	29 UJ	2.9 J
2-Methylphenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
2-Nitroaniline	NL	µg/kg	240 U	240 U	230 UJ	290 UJ	250 UJ
2-Nitrophenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
3-Nitroaniline	NL	µg/kg	240 U	240 U	230 UJ	290 UJ	250 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	240 U	240 U	230 UJ	290 UJ	250 UJ
4-Bromophenyl-phenylether	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
4-Chloro-3-methylphenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
4-Chloroaniline	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
4-Methylphenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
4-Nitroaniline	NL	µg/kg	240 U	240 U	230 UJ	290 UJ	250 UJ
4-Nitrophenol	NL	µg/kg	240 U	240 U	230 UJ	290 UJ	250 UJ
Acenaphthene	NL	µg/kg	2.4 U	2.4 U	2.3 UJ	29 UJ	2.8 J
Acenaphthylene	NL	µg/kg	2.7	2.4 U	2.3 UJ	29 UJ	2.5 UJ
Acetophenone	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Anthracene	845	µg/kg	4.2	2.4 U	2.3 UJ	29 UJ	9.5 J
Atrazine	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Benzaldehyde	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Benzo(a)anthracene	1050	µg/kg	15	7.2	4.5 J	60 J	27 J
Benzo(a)pyrene	1450	µg/kg	14	8.2	5.2 J	85 J	25 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-10	LMR11-10	LMR11-11	LMR11-11	LMR11-11
		Field Sample ID	LMR11-10-024	LMR11-10-045	LMR11-11-006	LMR11-11-024	LMR11-11-037
		Sample Date	8/4/2011	8/4/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	6- 24	24- 45	0- 6	6- 24	24- 37
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	16	6	6.2 J	86 J	27 J
Benzo(g,h,i)perylene	NL	µg/kg	4.6	2.4 U	2.3 UJ	29 UJ	15 J
Benzo(k)fluoranthene	NL	µg/kg	8.8	2.9	3.1 J	36 J	16 J
Bis(2-chloroethoxy)methane	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	120 U	120 U	120 UJ	37 J	130 UJ
Butylbenzylphthalate	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Caprolactam	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Carbazole	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Chrysene	1290	µg/kg	15	6.8	6 J	77 J	27 J
Dibenzo(a,h)anthracene	NL	µg/kg	2.4 U	2.4 U	2.3 UJ	29 UJ	3.8 J
Dibenzofuran	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Diethylphthalate	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Dimethylphthalate	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Di-n-butylphthalate	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Di-n-octylphthalate	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Fluoranthene	2230	µg/kg	22	9.6	9.3 J	100 J	51 J
Fluorene	536	µg/kg	2.4 U	2.4 U	2.3 UJ	29 UJ	4 J
Hexachlorobenzene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Hexachlorobutadiene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Hexachlorocyclopentadiene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Hexachloroethane	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.7	2.7	2.7 J	36 J	14 J
Isophorone	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Naphthalene	561	µg/kg	2.4 U	2.4 U	2.3 UJ	29 UJ	4.1 J
Nitrobenzene	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
N-Nitrosodiphenylamine	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Pentachlorophenol	NL	µg/kg	4.9 U	4.8 U	4.8 UJ	59 UJ	5.1 UJ
Phenanthrene	1170	µg/kg	11	5.6	4.9 J	52 J	34 J
Phenol	NL	µg/kg	120 U	120 U	120 UJ	150 UJ	130 UJ
Pyrene	1520	µg/kg	21	10	9.9 J	110 J	48 J
Total PAH 17	22800	µg/kg	147	68.6	61	758	312.35
TOC	NL	mg/kg	11,300	16,100	9,010	19,200	13,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-12	LMR11-13	LMR11-13	LMR11-14	LMR11-14
		Field Sample ID	LMR11-12-006	LMR11-13-006	LMR11-13-026	LMR11-14-006	LMR11-14-024
		Sample Date	8/3/2011	8/3/2011	8/3/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 26	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,4,5-Trichlorophenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,4,6-Trichlorophenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,4-Dichlorophenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,4-Dimethylphenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,4-Dinitrophenol	NL	µg/kg	440 U	330 U	260 U	250 UJ	310 UJ
2,4-Dinitrotoluene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2,6-Dinitrotoluene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2-Chloronaphthalene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2-Chlorophenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2-Methylnaphthalene	NL	µg/kg	4.4 UJ	3.3 U	2.6 U	39 J	3.1 UJ
2-Methylphenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
2-Nitroaniline	NL	µg/kg	440 U	330 U	260 U	250 UJ	310 UJ
2-Nitrophenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
3-Nitroaniline	NL	µg/kg	440 U	330 U	260 U	250 UJ	310 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	440 U	330 U	260 U	250 UJ	310 UJ
4-Bromophenyl-phenylether	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
4-Chloro-3-methylphenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
4-Chloroaniline	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
4-Methylphenol	NL	µg/kg	230 U	37 J	140 U	77 J	160 UJ
4-Nitroaniline	NL	µg/kg	440 U	330 U	260 U	250 UJ	310 UJ
4-Nitrophenol	NL	µg/kg	440 U	330 U	260 U	250 UJ	310 UJ
Acenaphthene	NL	µg/kg	4.4 U	3.3 U	2.6 U	300 J	3.1 UJ
Acenaphthylene	NL	µg/kg	4.4 U	3.3 U	2.6 U	6.2 J	3.1 UJ
Acetophenone	NL	µg/kg	230 U	170 U	140 U	51 J	160 UJ
Anthracene	845	µg/kg	4.4 U	3.3 U	2.6 U	1,100 J	3.3 J
Atrazine	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Benzaldehyde	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Benzo(a)anthracene	1050	µg/kg	4.4 U	4.3	2.6 U	10,000 J	12 J
Benzo(a)pyrene	1450	µg/kg	4.4 U	7	2.6 U	9,600 J	3.1 UJ

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-12	LMR11-13	LMR11-13	LMR11-14	LMR11-14
		Field Sample ID	LMR11-12-006	LMR11-13-006	LMR11-13-026	LMR11-14-006	LMR11-14-024
		Sample Date	8/3/2011	8/3/2011	8/3/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 26	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	4.4 U	5.2	2.6 U	11,000 J	3.1 UJ
Benzo(g,h,i)perylene	NL	µg/kg	4.4 U	3.3 U	2.6 U	5800 J	3.1 UJ
Benzo(k)fluoranthene	NL	µg/kg	4.4 U	3.3 U	2.6 U	5,600 J	3.1 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	230 U	170 U	36 J	130 UJ	160 UJ
Butylbenzylphthalate	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Caprolactam	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Carbazole	NL	µg/kg	230 U	170 U	140 U	880 J	160 UJ
Chrysene	1290	µg/kg	4.8	5	2.6 U	9,500 J	13 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.4 U	3.3 U	2.6 U	1,400 J	3.1 UJ
Dibenzofuran	NL	µg/kg	230 U	170 U	140 U	130 J	160 UJ
Diethylphthalate	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Dimethylphthalate	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Di-n-butylphthalate	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Di-n-octylphthalate	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Fluoranthene	2230	µg/kg	9	11	2.6 U	13,000 J	20 J
Fluorene	536	µg/kg	4.4 U	3.3 U	2.6 U	260 J	3.1 UJ
Hexachlorobenzene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Hexachlorobutadiene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Hexachlorocyclopentadiene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Hexachloroethane	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.4 U	3.3 U	2.6 U	6,100 J	3.1 UJ
Isophorone	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Naphthalene	561	µg/kg	4.4 U	3.4	2.6 U	69 J	3.1 UJ
Nitrobenzene	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
N-Nitrosodiphenylamine	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Pentachlorophenol	NL	µg/kg	9 U	6.7 U	5.4 U	5.1 UJ	6.2 UJ
Phenanthrene	1170	µg/kg	4.4 U	8.7	2.6 U	4,700 J	11 J
Phenol	NL	µg/kg	230 U	170 U	140 U	130 UJ	160 UJ
Pyrene	1520	µg/kg	12	10	2.6 U	14,000 J	23 J
Total PAH 17	22800	µg/kg	56.6	69.45	22.1	92474.2	99.35
TOC	NL	mg/kg	34,400	24,200	19,400	11,400	18,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-14	LMR11-15	LMR11-15	LMR11-15	LMR11-15
		Field Sample ID	LMR11-14-045	LMR11-15-006	LMR11-15-006-DP	LMR11-15-024	LMR11-15-024-DP
		Sample Date	8/5/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	24-45	0-6	0-6	6-24	6-24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,4,5-Trichlorophenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,4,6-Trichlorophenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,4-Dichlorophenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,4-Dimethylphenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,4-Dinitrophenol	NL	µg/kg	300 UJ	620 U	660 U	550 U	550 U
2,4-Dinitrotoluene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2,6-Dinitrotoluene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2-Chloronaphthalene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2-Chlorophenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2-Methylnaphthalene	NL	µg/kg	3 UJ	6.2 U	6.6 U	5.5 U	5.5 U
2-Methylphenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
2-Nitroaniline	NL	µg/kg	300 UJ	620 U	660 U	550 U	550 U
2-Nitrophenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
3,3'-Dichlorobenzidine	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
3-Nitroaniline	NL	µg/kg	300 UJ	620 U	660 U	550 U	550 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	300 UJ	620 U	660 U	550 U	550 U
4-Bromophenyl-phenylether	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
4-Chloro-3-methylphenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
4-Chloroaniline	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
4-Chlorophenyl-phenylether	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
4-Methylphenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
4-Nitroaniline	NL	µg/kg	300 UJ	620 U	660 U	550 U	550 U
4-Nitrophenol	NL	µg/kg	300 UJ	620 U	660 U	550 U	550 U
Acenaphthene	NL	µg/kg	3 UJ	6.2 U	6.6 U	5.5 U	5.5 U
Acenaphthylene	NL	µg/kg	3 UJ	6.2 U	6.6 U	5.5 U	5.5 U
Acetophenone	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Anthracene	845	µg/kg	3 UJ	6.2 U	6.6 U	5.5 U	5.5 U
Atrazine	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Benzaldehyde	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Benzo(a)anthracene	1050	µg/kg	8.2 J	6.2 U	6.6 U	5.5 U	5.5 U
Benzo(a)pyrene	1450	µg/kg	14 J	6.2 U	6.6 U	5.5 U	5.5 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-14	LMR11-15	LMR11-15	LMR11-15	LMR11-15
		Field Sample ID	LMR11-14-045	LMR11-15-006	LMR11-15-006-DP	LMR11-15-024	LMR11-15-024-DP
		Sample Date	8/5/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	24-45	0-6	0-6	6-24	6-24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	11 J	6.2 U	6.6 U	7.9	8.5
Benzo(g,h,i)perylene	NL	µg/kg	6.7 J	6.2 U	6.6 U	5.5 U	5.5 U
Benzo(k)fluoranthene	NL	µg/kg	6.3 J	6.2 U	6.6 U	5.5 U	5.5 U
Bis(2-chloroethoxy)methane	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Bis(2-chloroethyl)ether	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Butylbenzylphthalate	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Caprolactam	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Carbazole	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Chrysene	1290	µg/kg	9.4 J	6.2 U	6.6 U	5.6	5.6
Dibenzo(a,h)anthracene	NL	µg/kg	3 UJ	6.2 U	6.6 U	5.5 U	5.5 U
Dibenzofuran	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Diethylphthalate	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Dimethylphthalate	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Di-n-butylphthalate	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Di-n-octylphthalate	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Fluoranthene	2230	µg/kg	15 J	6.2 U	6.6 U	15	13
Fluorene	536	µg/kg	3 UJ	6.2 U	6.6 U	5.5 U	5.5 U
Hexachlorobenzene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Hexachlorobutadiene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Hexachlorocyclopentadiene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Hexachloroethane	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.1 J	6.2 U	6.6 U	5.5 U	5.5 U
Isophorone	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Naphthalene	561	µg/kg	3.4 J	6.2 U	6.6 U	5.5 U	5.5 U
Nitrobenzene	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
N-Nitroso-di-n-propylamine	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
N-Nitrosodiphenylamine	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Pentachlorophenol	NL	µg/kg	6.1 UJ	13 UJ	13 U	11 U	11 U
Phenanthrene	1170	µg/kg	11 J	6.2 U	6.6 U	12	7.3
Phenol	NL	µg/kg	150 UJ	320 U	340 U	280 U	280 U
Pyrene	1520	µg/kg	21 J	6.2 U	6.6 U	13	9.9
Total PAH 17	22800	µg/kg	120.1	52.7	56.1	86.5	77.3
TOC	NL	mg/kg	25,800	15,000 J	32,500 J	24,600 J	14,200 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-15	LMR11-15	LMR11-15	LMR11-15	LMR11-16
		Field Sample ID	LMR11-15-048	LMR11-15-048-DP	LMR11-15-072	LMR11-15-104	LMR11-16-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	72- 104	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,4,5-Trichlorophenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,4,6-Trichlorophenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,4-Dichlorophenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,4-Dimethylphenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,4-Dinitrophenol	NL	µg/kg	540 U	530 U	510 U	520 U	620 U
2,4-Dinitrotoluene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2,6-Dinitrotoluene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2-Chloronaphthalene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2-Chlorophenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2-Methylnaphthalene	NL	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
2-Methylphenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
2-Nitroaniline	NL	µg/kg	540 U	530 U	510 U	520 U	620 U
2-Nitrophenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
3,3'-Dichlorobenzidine	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
3-Nitroaniline	NL	µg/kg	540 U	530 U	510 U	520 U	620 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	540 U	530 U	510 U	520 U	620 U
4-Bromophenyl-phenylether	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
4-Chloro-3-methylphenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
4-Chloroaniline	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
4-Chlorophenyl-phenylether	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
4-Methylphenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
4-Nitroaniline	NL	µg/kg	540 U	530 U	510 U	520 U	620 U
4-Nitrophenol	NL	µg/kg	540 U	530 U	510 U	520 U	620 U
Acenaphthene	NL	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
Acenaphthylene	NL	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
Acetophenone	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Anthracene	845	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
Atrazine	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Benzaldehyde	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Benzo(a)anthracene	1050	µg/kg	5.4 U	6.8	10	5.2 U	6.7
Benzo(a)pyrene	1450	µg/kg	5.4 U	7.3	12	5.2 U	7

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-15	LMR11-15	LMR11-15	LMR11-15	LMR11-16
		Field Sample ID	LMR11-15-048	LMR11-15-048-DP	LMR11-15-072	LMR11-15-104	LMR11-16-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	72- 104	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5.4 U	11	16	5.2 U	6.2 U
Benzo(g,h,i)perylene	NL	µg/kg	5.4 U	5.3 U	7.4	5.2 U	6.2 U
Benzo(k)fluoranthene	NL	µg/kg	5.4 U	5.3 U	5.6	5.2 U	6.2 U
Bis(2-chloroethoxy)methane	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Bis(2-chloroethyl)ether	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Butylbenzylphthalate	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Caprolactam	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Carbazole	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Chrysene	1290	µg/kg	5.4 U	7.1	11	5.6	9.3
Dibenzo(a,h)anthracene	NL	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
Dibenzofuran	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Diethylphthalate	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Dimethylphthalate	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Di-n-butylphthalate	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Di-n-octylphthalate	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Fluoranthene	2230	µg/kg	8.5	20	24	19	21
Fluorene	536	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
Hexachlorobenzene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Hexachlorobutadiene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Hexachlorocyclopentadiene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Hexachloroethane	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.4 U	5.3 U	6.4	5.2 U	6.2 U
Isophorone	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Naphthalene	561	µg/kg	5.4 U	5.3 U	5.1 U	5.2 U	6.2 U
Nitrobenzene	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
N-Nitroso-di-n-propylamine	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
N-Nitrosodiphenylamine	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Pentachlorophenol	NL	µg/kg	11 UJ	11 U	10 U	11 U	13 UJ
Phenanthrene	1170	µg/kg	6	9.6	18	19	17
Phenol	NL	µg/kg	280 U	270 U	260 U	270 U	320 U
Pyrene	1520	µg/kg	10	14	22	14	19
Total PAH 17	22800	µg/kg	62.3	102.3	150.25	91.4	114.1
TOC	NL	mg/kg	26,000	22,600	27,300	44,200	27,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-16	LMR11-16	LMR11-16	LMR11-17	LMR11-17
		Field Sample ID	LMR11-16-024	LMR11-16-048	LMR11-16-072	LMR11-17-006	LMR11-17-021
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	0- 6	6- 21
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,4,5-Trichlorophenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,4,6-Trichlorophenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,4-Dichlorophenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,4-Dimethylphenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,4-Dinitrophenol	NL	µg/kg	630 U	600 U	550 U	250 U	230 U
2,4-Dinitrotoluene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2,6-Dinitrotoluene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2-Chloronaphthalene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2-Chlorophenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2-Methylnaphthalene	NL	µg/kg	6.3 U	6 U	5.5 U	2.5 U	2.3 U
2-Methylphenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
2-Nitroaniline	NL	µg/kg	630 U	600 U	550 U	250 U	230 U
2-Nitrophenol	NL	µg/kg	320 U	310 U	290 U	130 UJ	120 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
3-Nitroaniline	NL	µg/kg	630 U	600 U	550 U	250 U	230 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	630 U	600 U	550 U	250 U	230 U
4-Bromophenyl-phenylether	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
4-Chloro-3-methylphenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
4-Chloroaniline	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
4-Chlorophenyl-phenylether	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
4-Methylphenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
4-Nitroaniline	NL	µg/kg	630 U	600 U	550 U	250 U	230 U
4-Nitrophenol	NL	µg/kg	630 U	600 U	550 U	250 U	230 U
Acenaphthene	NL	µg/kg	6.3 U	6 U	5.5 U	2.5 U	2.3 U
Acenaphthylene	NL	µg/kg	6.3 U	6 U	5.5 U	2.5 U	2.3 U
Acetophenone	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Anthracene	845	µg/kg	6.3 U	6 U	5.5 U	8.1	4.1
Atrazine	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Benzaldehyde	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Benzo(a)anthracene	1050	µg/kg	8.6	13	5.5 U	25	11
Benzo(a)pyrene	1450	µg/kg	7.1	9.5	5.5 U	18	6.1

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-16	LMR11-16	LMR11-16	LMR11-17	LMR11-17
		Field Sample ID	LMR11-16-024	LMR11-16-048	LMR11-16-072	LMR11-17-006	LMR11-17-021
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	0- 6	6- 21
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6.3 U	11	5.5 U	21	7.3
Benzo(g,h,i)perylene	NL	µg/kg	6.3 U	6 U	5.5 U	8.9	2.7
Benzo(k)fluoranthene	NL	µg/kg	6.3 U	6 U	5.5 U	8.2	3
Bis(2-chloroethoxy)methane	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Bis(2-chloroethyl)ether	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	320 U	310 U	290 U	130 U	190
Butylbenzylphthalate	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Caprolactam	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Carbazole	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Chrysene	1290	µg/kg	12	14	5.5 U	29	10
Dibenzo(a,h)anthracene	NL	µg/kg	6.3 U	6 U	5.5 U	2.8	2.3 U
Dibenzofuran	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Diethylphthalate	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Dimethylphthalate	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Di-n-butylphthalate	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Di-n-octylphthalate	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Fluoranthene	2230	µg/kg	21	22	5.5 U	53	20
Fluorene	536	µg/kg	6.3 U	6 U	5.5 U	2.5	2.3 U
Hexachlorobenzene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Hexachlorobutadiene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Hexachlorocyclopentadiene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Hexachloroethane	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.3 U	6 U	5.5 U	9.7	3.1
Isophorone	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Naphthalene	561	µg/kg	6.3 U	6 U	5.5 U	2.5 U	2.3 U
Nitrobenzene	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
N-Nitroso-di-n-propylamine	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
N-Nitrosodiphenylamine	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Pentachlorophenol	NL	µg/kg	13 U	12 UJ	11 UJ	25 U	9.4 U
Phenanthrene	1170	µg/kg	14	12	5.5 U	20	13
Phenol	NL	µg/kg	320 U	310 U	290 U	130 U	120 U
Pyrene	1520	µg/kg	23	23	5.5 U	52	21
Total PAH 17	22800	µg/kg	120.35	134.5	46.75	263.2	108.2
TOC	NL	mg/kg	28,400	21,900	116,000	20,400	5,510

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-18	LMR11-18	LMR11-18	LMR11-19	LMR11-19
		Field Sample ID	LMR11-18-006	LMR11-18-024	LMR11-18-048	LMR11-19-006	LMR11-19-014
		Sample Date	8/3/2011	8/5/2011	8/5/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	0- 6	6- 14
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,4,5-Trichlorophenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,4,6-Trichlorophenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,4-Dichlorophenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,4-Dimethylphenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,4-Dinitrophenol	NL	µg/kg	450 U	300 UJ	310 UJ	350 U	410 UJ
2,4-Dinitrotoluene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2,6-Dinitrotoluene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2-Chloronaphthalene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2-Chlorophenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2-Methylnaphthalene	NL	µg/kg	4.5 UJ	3 UJ	3.1 UJ	3.5 UJ	4.1 UJ
2-Methylphenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
2-Nitroaniline	NL	µg/kg	450 U	300 UJ	310 UJ	350 U	410 UJ
2-Nitrophenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
3-Nitroaniline	NL	µg/kg	450 U	300 UJ	310 UJ	350 U	410 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	450 U	300 UJ	310 UJ	350 U	410 UJ
4-Bromophenyl-phenylether	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
4-Chloro-3-methylphenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
4-Chloroaniline	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
4-Methylphenol	NL	µg/kg	230 U	160 UJ	46 J	180 U	210 UJ
4-Nitroaniline	NL	µg/kg	450 U	300 UJ	310 UJ	350 U	410 UJ
4-Nitrophenol	NL	µg/kg	450 U	300 UJ	310 UJ	350 U	410 UJ
Acenaphthene	NL	µg/kg	4.5 U	3 UJ	3.1 UJ	3.5 U	4.1 UJ
Acenaphthylene	NL	µg/kg	4.5 U	3 UJ	3.1 UJ	3.5 U	4.1 UJ
Acetophenone	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Anthracene	845	µg/kg	5.2	3 UJ	3.7 J	3.5 U	5.5 J
Atrazine	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Benzaldehyde	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Benzo(a)anthracene	1050	µg/kg	18	10 J	11 J	3.5 U	7.4 J
Benzo(a)pyrene	1450	µg/kg	11	12 J	15 J	3.5 U	7.8 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-18	LMR11-18	LMR11-18	LMR11-19	LMR11-19
		Field Sample ID	LMR11-18-006	LMR11-18-024	LMR11-18-048	LMR11-19-006	LMR11-19-014
		Sample Date	8/3/2011	8/5/2011	8/5/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	0- 6	6- 14
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	16	12 J	16 J	3.5 U	13 J
Benzo(g,h,i)perylene	NL	µg/kg	4.5 U	5.4 J	8.3 J	3.5 U	5.1 J
Benzo(k)fluoranthene	NL	µg/kg	13	4.9 J	7.4 J	3.5 U	4.1 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Butylbenzylphthalate	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Caprolactam	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Carbazole	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Chrysene	1290	µg/kg	20	9.9 J	14 J	3.5 U	12 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.5 U	3 UJ	3.1 UJ	3.5 U	4.1 UJ
Dibenzofuran	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Diethylphthalate	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Dimethylphthalate	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Di-n-butylphthalate	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Di-n-octylphthalate	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Fluoranthene	2230	µg/kg	37	18 J	22 J	4.4	27 J
Fluorene	536	µg/kg	4.5 U	3 UJ	3.1 UJ	3.5 U	4.1 UJ
Hexachlorobenzene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Hexachlorobutadiene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Hexachlorocyclopentadiene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Hexachloroethane	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.5 U	4.7 J	6.8 J	3.5 U	4.1 UJ
Isophorone	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Naphthalene	561	µg/kg	4.5 U	3 UJ	3.9 J	3.5 U	4.1 UJ
Nitrobenzene	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
N-Nitrosodiphenylamine	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Pentachlorophenol	NL	µg/kg	9 U	6.2 UJ	6.3 UJ	7.1 U	8.3 UJ
Phenanthrene	1170	µg/kg	14	7.3 J	17 J	3.5 U	22 J
Phenol	NL	µg/kg	230 U	160 UJ	160 UJ	180 U	210 UJ
Pyrene	1520	µg/kg	45	17 J	23 J	6	28 J
Total PAH 17	22800	µg/kg	197.2	111.7	155.85	36.65	144.2
TOC	NL	mg/kg	33,100	19,000	53,600 J	26,800	10,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-20	LMR11-20	LMR11-20	LMR11-20	LMR11-20
		Field Sample ID	LMR11-20-006	LMR11-20-006FS	LMR11-20-024	LMR11-20-048	LMR11-20-060
		Sample Date	8/2/2011	8/2/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	48- 60
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,4,5-Trichlorophenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,4,6-Trichlorophenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,4-Dichlorophenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,4-Dimethylphenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,4-Dinitrophenol	NL	µg/kg	450 U	460 U	380 UJ	320 UJ	270 UJ
2,4-Dinitrotoluene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2,6-Dinitrotoluene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2-Chloronaphthalene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2-Chlorophenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2-Methylnaphthalene	NL	µg/kg	4.5 UJ	4.6 UJ	3.8 UJ	3.2 UJ	2.7 UJ
2-Methylphenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
2-Nitroaniline	NL	µg/kg	450 U	460 U	380 UJ	320 UJ	270 UJ
2-Nitrophenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
3-Nitroaniline	NL	µg/kg	450 U	460 U	380 UJ	320 UJ	270 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	450 U	460 U	380 UJ	320 UJ	270 UJ
4-Bromophenyl-phenylether	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
4-Chloro-3-methylphenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
4-Chloroaniline	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
4-Methylphenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
4-Nitroaniline	NL	µg/kg	450 U	460 U	380 UJ	320 UJ	270 UJ
4-Nitrophenol	NL	µg/kg	450 U	460 U	380 UJ	320 UJ	270 UJ
Acenaphthene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	5.1 J
Acenaphthylene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	4.9 J
Acetophenone	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Anthracene	845	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	19 J
Atrazine	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Benzaldehyde	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Benzo(a)anthracene	1050	µg/kg	4.5 U	4.6 U	3.8 UJ	4.1 J	52 J
Benzo(a)pyrene	1450	µg/kg	10	4.6 U	3.8 UJ	5.2 J	44 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-20	LMR11-20	LMR11-20	LMR11-20	LMR11-20
		Field Sample ID	LMR11-20-006	LMR11-20-006FS	LMR11-20-024	LMR11-20-048	LMR11-20-060
		Sample Date	8/2/2011	8/2/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	48- 60
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	5.8 J	50 J
Benzo(g,h,i)perylene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	17 J
Benzo(k)fluoranthene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	29 J
Bis(2-chloroethoxy)methane	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	49 J
Butylbenzylphthalate	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Caprolactam	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Carbazole	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Chrysene	1290	µg/kg	4.5 U	4.6 U	3.8 UJ	5.6 J	53 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	7.4 J
Dibenzofuran	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Diethylphthalate	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Dimethylphthalate	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Di-n-butylphthalate	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Di-n-octylphthalate	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Fluoranthene	2230	µg/kg	6.5	4.6 U	3.8 UJ	5.3 J	88 J
Fluorene	536	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	4.9 J
Hexachlorobenzene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Hexachlorobutadiene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Hexachlorocyclopentadiene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Hexachloroethane	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	24 J
Isophorone	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Naphthalene	561	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	5.5 J
Nitrobenzene	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
N-Nitrosodiphenylamine	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Pentachlorophenol	NL	µg/kg	9.2 U	9.4 U	7.6 UJ	6.5 UJ	5.5 UJ
Phenanthrene	1170	µg/kg	4.5 U	4.6 U	3.8 UJ	3.2 UJ	59 J
Phenol	NL	µg/kg	230 U	240 U	190 UJ	160 UJ	140 UJ
Pyrene	1520	µg/kg	8.8	4.6 U	5.1 J	6.5 J	87 J
Total PAH 17	22800	µg/kg	56.8	39.1	35.5	50.1	551.15
TOC	NL	mg/kg	23,100	19,600	23,800	22,100	12,700

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-21	LMR11-22	LMR11-23	LMR11-23	LMR11-23
		Field Sample ID	LMR11-21-006	LMR11-22-006	LMR11-23-006	LMR11-23-024	LMR11-23-048
		Sample Date	8/3/2011	8/4/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	0- 6	0- 6	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2,4,5-Trichlorophenol	NL	µg/kg	200 U	210 U	360 U	330 UJ	320 UJ
2,4,6-Trichlorophenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2,4-Dichlorophenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2,4-Dimethylphenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2,4-Dinitrophenol	NL	µg/kg	380 U	410 U	690 U	650 U	630 U
2,4-Dinitrotoluene	NL	µg/kg	200 U	210 U	360 U	330 UJ	320 UJ
2,6-Dinitrotoluene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2-Chloronaphthalene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2-Chlorophenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
2-Methylnaphthalene	NL	µg/kg	3.8 UJ	4.1 UJ	6.9 U	6.5 U	6.3 U
2-Methylphenol	NL	µg/kg	200 U	210 U	360 UJ	330 U	320 U
2-Nitroaniline	NL	µg/kg	380 U	410 U	690 U	650 U	630 U
2-Nitrophenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
3,3'-Dichlorobenzidine	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
3-Nitroaniline	NL	µg/kg	380 U	410 U	690 U	650 U	630 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	380 U	410 U	690 U	650 U	630 U
4-Bromophenyl-phenylether	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
4-Chloro-3-methylphenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
4-Chloroaniline	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
4-Chlorophenyl-phenylether	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
4-Methylphenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
4-Nitroaniline	NL	µg/kg	380 U	410 U	690 U	650 U	630 U
4-Nitrophenol	NL	µg/kg	380 U	410 U	690 U	650 U	630 U
Acenaphthene	NL	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Acenaphthylene	NL	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Acetophenone	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Anthracene	845	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Atrazine	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Benzaldehyde	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Benzo(a)anthracene	1050	µg/kg	3.8 U	4.1 U	6.9 U	11	6.3 U
Benzo(a)pyrene	1450	µg/kg	3.8 U	4.1 U	6.9 U	15	6.3 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-21	LMR11-22	LMR11-23	LMR11-23	LMR11-23
		Field Sample ID	LMR11-21-006	LMR11-22-006	LMR11-23-006	LMR11-23-024	LMR11-23-048
		Sample Date	8/3/2011	8/4/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	0- 6	0- 6	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	3.8 U	4.1 U	6.9 U	19	6.3 U
Benzo(g,h,i)perylene	NL	µg/kg	3.8 U	4.1 U	6.9 U	11	6.3 U
Benzo(k)fluoranthene	NL	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Bis(2-chloroethoxy)methane	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Bis(2-chloroethyl)ether	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Butylbenzylphthalate	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Caprolactam	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Carbazole	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Chrysene	1290	µg/kg	4.2	4.1 U	6.9 U	14	6.3 U
Dibenzo(a,h)anthracene	NL	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Dibenzofuran	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Diethylphthalate	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Dimethylphthalate	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Di-n-butylphthalate	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Di-n-octylphthalate	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Fluoranthene	2230	µg/kg	9	10	15	48	15
Fluorene	536	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Hexachlorobenzene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Hexachlorobutadiene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Hexachlorocyclopentadiene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Hexachloroethane	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.8 U	4.1 U	6.9 U	7.6	6.3 U
Isophorone	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Naphthalene	561	µg/kg	3.8 U	4.1 U	6.9 U	6.5 U	6.3 U
Nitrobenzene	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
N-Nitroso-di-n-propylamine	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
N-Nitrosodiphenylamine	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Pentachlorophenol	NL	µg/kg	7.8 U	8.4 U	14 U	13 UJ	13 UJ
Phenanthrene	1170	µg/kg	4.5	6.3	9.8	34	15
Phenol	NL	µg/kg	200 U	210 U	360 U	330 U	320 U
Pyrene	1520	µg/kg	11	12	13	25 J	11
Total PAH 17	22800	µg/kg	53.4	57	86.1	210.6	85.1
TOC	NL	mg/kg	21,400	25,300	24,300	22,900	23,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-23	LMR11-23	LMR11-23	LMR11-24	LMR11-24
		Field Sample ID	LMR11-23-072	LMR11-23-096	LMR11-23-115	LMR11-24-006	LMR11-24-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/4/2011	8/11/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2,4,5-Trichlorophenol	NL	µg/kg	300 UJ	290 UJ	210 UJ	130 U	270 UJ
2,4,6-Trichlorophenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2,4-Dichlorophenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2,4-Dimethylphenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2,4-Dinitrophenol	NL	µg/kg	580 U	560 U	420 U	260 U	520 U
2,4-Dinitrotoluene	NL	µg/kg	300 UJ	290 UJ	210 UJ	130 U	270 UJ
2,6-Dinitrotoluene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2-Chloronaphthalene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2-Chlorophenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2-Methylnaphthalene	NL	µg/kg	5.8 U	5.6 U	4.2 U	2.6 U	5.2 U
2-Methylphenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
2-Nitroaniline	NL	µg/kg	580 U	560 U	420 U	260 U	520 U
2-Nitrophenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
3,3'-Dichlorobenzidine	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
3-Nitroaniline	NL	µg/kg	580 U	560 U	420 U	260 U	520 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	580 U	560 U	420 U	260 U	520 U
4-Bromophenyl-phenylether	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
4-Chloro-3-methylphenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
4-Chloroaniline	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
4-Chlorophenyl-phenylether	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
4-Methylphenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
4-Nitroaniline	NL	µg/kg	580 U	560 U	420 U	260 U	520 U
4-Nitrophenol	NL	µg/kg	580 U	560 U	420 U	260 U	520 U
Acenaphthene	NL	µg/kg	5.8 U	5.6 U	4.2 U	2.6 U	5.2 U
Acenaphthylene	NL	µg/kg	5.8 U	5.6 U	4.2 U	2.6 U	5.2 U
Acetophenone	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Anthracene	845	µg/kg	6.4	5.6 U	4.8	2.6 U	5.2 U
Atrazine	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Benzaldehyde	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Benzo(a)anthracene	1050	µg/kg	9.5	5.6 U	10	2.6 U	5.2 U
Benzo(a)pyrene	1450	µg/kg	10	5.6 U	4.2 U	4.4	5.2 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-23	LMR11-23	LMR11-23	LMR11-24	LMR11-24
		Field Sample ID	LMR11-23-072	LMR11-23-096	LMR11-23-115	LMR11-24-006	LMR11-24-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/4/2011	8/11/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	16	7.4	14	3.1	5.2 U
Benzo(g,h,i)perylene	NL	µg/kg	6.3	5.6 U	5.1	2.6 U	5.2 U
Benzo(k)fluoranthene	NL	µg/kg	6	5.6 U	4.9	2.6 U	5.2 U
Bis(2-chloroethoxy)methane	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Bis(2-chloroethyl)ether	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	300 U	290 U	65 J	130 U	270 U
Butylbenzylphthalate	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Caprolactam	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Carbazole	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Chrysene	1290	µg/kg	12	5.6 U	13	2.6 U	5.2 U
Dibenzo(a,h)anthracene	NL	µg/kg	5.8 U	5.6 U	4.2 U	2.6 U	5.2 U
Dibenzofuran	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Diethylphthalate	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Dimethylphthalate	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Di-n-butylphthalate	NL	µg/kg	300 U	290 U	210 U	39 J	270 U
Di-n-octylphthalate	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Fluoranthene	2230	µg/kg	36	5.6 U	29	4.8	6.3
Fluorene	536	µg/kg	5.8 U	5.6 U	4.2 U	2.6 U	5.2 U
Hexachlorobenzene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Hexachlorobutadiene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Hexachlorocyclopentadiene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Hexachloroethane	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.8 U	5.6 U	4.9	2.6 U	5.2 U
Isophorone	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Naphthalene	561	µg/kg	5.8 U	5.6 U	4.2 U	2.6 U	5.2 U
Nitrobenzene	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
N-Nitroso-di-n-propylamine	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
N-Nitrosodiphenylamine	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Pentachlorophenol	NL	µg/kg	12 UJ	11 UJ	8.4 UJ	5.3 U	11 UJ
Phenanthrene	1170	µg/kg	30	5.6 U	26	2.6 U	5.2 U
Phenol	NL	µg/kg	300 U	290 U	210 U	130 U	270 U
Pyrene	1520	µg/kg	26	10	25	4.9	5.6
Total PAH 17	22800	µg/kg	178.5	59.4	151.4	34.1	50.9
TOC	NL	mg/kg	24,800	18,300	13,400	16,200	14,100

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-24	LMR11-24	LMR11-24	LMR11-25	LMR11-25
		Field Sample ID	LMR11-24-048	LMR11-24-072	LMR11-24-096	LMR11-25-006	LMR11-25-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2,4,5-Trichlorophenol	NL	µg/kg	310 UJ	270 UJ	300 UJ	340 U	320 U
2,4,6-Trichlorophenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2,4-Dichlorophenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2,4-Dimethylphenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2,4-Dinitrophenol	NL	µg/kg	600 U	530 U	590 U	660 U	620 U
2,4-Dinitrotoluene	NL	µg/kg	310 UJ	270 UJ	300 UJ	340 U	320 U
2,6-Dinitrotoluene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2-Chloronaphthalene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2-Chlorophenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
2-Methylnaphthalene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
2-Methylphenol	NL	µg/kg	310 U	270 U	300 U	340 UJ	320 UJ
2-Nitroaniline	NL	µg/kg	600 U	530 U	590 U	660 U	620 U
2-Nitrophenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
3,3'-Dichlorobenzidine	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
3-Nitroaniline	NL	µg/kg	600 U	530 U	590 U	660 U	620 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	600 U	530 U	590 U	660 U	620 U
4-Bromophenyl-phenylether	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
4-Chloro-3-methylphenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
4-Chloroaniline	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
4-Chlorophenyl-phenylether	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
4-Methylphenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
4-Nitroaniline	NL	µg/kg	600 U	530 U	590 U	660 U	620 U
4-Nitrophenol	NL	µg/kg	600 U	530 U	590 U	660 U	620 U
Acenaphthene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Acenaphthylene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Acetophenone	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Anthracene	845	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Atrazine	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Benzaldehyde	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Benzo(a)anthracene	1050	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Benzo(a)pyrene	1450	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-24	LMR11-24	LMR11-24	LMR11-25	LMR11-25
		Field Sample ID	LMR11-24-048	LMR11-24-072	LMR11-24-096	LMR11-25-006	LMR11-25-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6 U	5.8	6.2	6.6 U	6.2 U
Benzo(g,h,i)perylene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Benzo(k)fluoranthene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Bis(2-chloroethoxy)methane	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Bis(2-chloroethyl)ether	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Butylbenzylphthalate	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Caprolactam	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Carbazole	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Chrysene	1290	µg/kg	6 U	5.3 U	6.3	6.6 U	6.2 U
Dibenzo(a,h)anthracene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Dibenzofuran	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Diethylphthalate	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Dimethylphthalate	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Di-n-butylphthalate	NL	µg/kg	130 J	270 U	300 U	340 U	320 U
Di-n-octylphthalate	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Fluoranthene	2230	µg/kg	11	13	22	10	9.9
Fluorene	536	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Hexachlorobenzene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Hexachlorobutadiene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Hexachlorocyclopentadiene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Hexachloroethane	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Isophorone	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Naphthalene	561	µg/kg	6 U	5.3 U	5.9 U	6.6 U	6.2 U
Nitrobenzene	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
N-Nitroso-di-n-propylamine	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
N-Nitrosodiphenylamine	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Pentachlorophenol	NL	µg/kg	12 UJ	11 UJ	12 UJ	13 U	13 U
Phenanthrene	1170	µg/kg	9.5	11	16	6.6 U	8.3
Phenol	NL	µg/kg	310 U	270 U	300 U	340 U	320 U
Pyrene	1520	µg/kg	7.8	9.4	14	8.9	8.6
Total PAH 17	22800	µg/kg	70.3	73.65	99.9	68.4	70.2
TOC	NL	mg/kg	22,600	31,100	27,100	23,100	21,300

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-25	LMR11-25	LMR11-25	LMR11-26	LMR11-26
		Field Sample ID	LMR11-25-048	LMR11-25-072	LMR11-25-096	LMR11-26-006	LMR11-26-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,4,5-Trichlorophenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,4,6-Trichlorophenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,4-Dichlorophenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,4-Dimethylphenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,4-Dinitrophenol	NL	µg/kg	580 U	570 U	500 U	650 U	570 U
2,4-Dinitrotoluene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2,6-Dinitrotoluene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2-Chloronaphthalene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2-Chlorophenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
2-Methylnaphthalene	NL	µg/kg	5.8 U	5.7 U	5 U	6.5 U	5.7 U
2-Methylphenol	NL	µg/kg	300 UJ	290 UJ	260 UJ	340 UJ	300 U
2-Nitroaniline	NL	µg/kg	580 U	570 U	500 U	650 U	570 U
2-Nitrophenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
3,3'-Dichlorobenzidine	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
3-Nitroaniline	NL	µg/kg	580 U	570 U	500 U	650 U	570 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	580 U	570 U	500 U	650 U	570 U
4-Bromophenyl-phenylether	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
4-Chloro-3-methylphenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
4-Chloroaniline	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
4-Chlorophenyl-phenylether	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
4-Methylphenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
4-Nitroaniline	NL	µg/kg	580 U	570 U	500 U	650 U	570 U
4-Nitrophenol	NL	µg/kg	580 U	570 U	500 U	650 U	570 U
Acenaphthene	NL	µg/kg	5.8 U	5.7 U	5 U	6.5 U	5.7 U
Acenaphthylene	NL	µg/kg	5.8 U	5.7 U	5 U	6.5 U	5.7 U
Acetophenone	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Anthracene	845	µg/kg	5.8 U	5.7 U	5 U	6.5 U	5.7 U
Atrazine	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Benzaldehyde	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Benzo(a)anthracene	1050	µg/kg	7.3	5.7 U	5 U	9.7	5.7 U
Benzo(a)pyrene	1450	µg/kg	16	5.7 U	5 U	13	5.7 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-25	LMR11-25	LMR11-25	LMR11-26	LMR11-26
		Field Sample ID	LMR11-25-048	LMR11-25-072	LMR11-25-096	LMR11-26-006	LMR11-26-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	17	5.7 U	5 U	19	5.7 U
Benzo(g,h,i)perylene	NL	µg/kg	5.8 U	5.7 U	5 U	9.7	5.7 U
Benzo(k)fluoranthene	NL	µg/kg	6.1	5.7 U	5 U	8.1	5.7 U
Bis(2-chloroethoxy)methane	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Bis(2-chloroethyl)ether	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Butylbenzylphthalate	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Caprolactam	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Carbazole	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Chrysene	1290	µg/kg	9.5	5.7 U	5 U	11	5.7 U
Dibenzo(a,h)anthracene	NL	µg/kg	5.8 U	5.7 U	5 U	6.5 U	5.7 U
Dibenzofuran	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Diethylphthalate	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Dimethylphthalate	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Di-n-butylphthalate	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Di-n-octylphthalate	NL	µg/kg	300 U	290 U	260 U	340 U	300 UJ
Fluoranthene	2230	µg/kg	19	5.7 U	5 U	21	5.7 U
Fluorene	536	µg/kg	5.8 U	5.7 U	5 U	4.4 J	5.7 U
Hexachlorobenzene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Hexachlorobutadiene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Hexachlorocyclopentadiene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Hexachloroethane	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.8 U	5.7 U	5 U	8.5	5.7 U
Isophorone	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Naphthalene	561	µg/kg	5.8 U	5.7 U	5 U	6.5 U	5.7 U
Nitrobenzene	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
N-Nitroso-di-n-propylamine	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
N-Nitrosodiphenylamine	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Pentachlorophenol	NL	µg/kg	12 U	12 U	10 U	13 U	12 U
Phenanthrene	1170	µg/kg	13	5.7 U	5 U	8.9	7
Phenol	NL	µg/kg	300 U	290 U	260 U	340 U	300 U
Pyrene	1520	µg/kg	16	5.7 U	5 U	18	5.7 U
Total PAH 17	22800	µg/kg	130	48.45	42.5	150.8	52.6
TOC	NL	mg/kg	22,800	19,800	28,100	23,300 J	22,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-26	LMR11-26	LMR11-26	LMR11-26	LMR11-27
		Field Sample ID	LMR11-26-048	LMR11-26-072	LMR11-26-096	LMR11-26-117	LMR11-27-006
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 117	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,4,5-Trichlorophenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,4,6-Trichlorophenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,4-Dichlorophenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,4-Dimethylphenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,4-Dinitrophenol	NL	µg/kg	590 U	570 U	530 U	460 U	360 U
2,4-Dinitrotoluene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2,6-Dinitrotoluene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2-Chloronaphthalene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2-Chlorophenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
2-Methylnaphthalene	NL	µg/kg	5.9 U	5.7 U	5.3 U	10	3.6 UJ
2-Methylphenol	NL	µg/kg	310 U	290 UJ	270 UJ	230 UJ	190 U
2-Nitroaniline	NL	µg/kg	590 U	570 U	530 U	460 U	360 U
2-Nitrophenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
3,3'-Dichlorobenzidine	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
3-Nitroaniline	NL	µg/kg	590 U	570 U	530 U	460 U	360 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	590 U	570 U	530 U	460 U	360 U
4-Bromophenyl-phenylether	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
4-Chloro-3-methylphenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
4-Chloroaniline	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
4-Chlorophenyl-phenylether	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
4-Methylphenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
4-Nitroaniline	NL	µg/kg	590 U	570 U	530 U	460 U	360 U
4-Nitrophenol	NL	µg/kg	590 U	570 U	530 U	460 U	360 U
Acenaphthene	NL	µg/kg	5.9 U	5.7 U	5.3 U	8.8	3.6 U
Acenaphthylene	NL	µg/kg	5.9 U	5.7 U	5.3 U	6.6	3.6 U
Acetophenone	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Anthracene	845	µg/kg	5.9 U	5.7 U	5.3 U	37	3.6 U
Atrazine	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Benzaldehyde	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Benzo(a)anthracene	1050	µg/kg	5.9 U	7.8	14	54	7.7
Benzo(a)pyrene	1450	µg/kg	5.9 U	8.4	24	49	7.2

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-26	LMR11-26	LMR11-26	LMR11-26	LMR11-27
		Field Sample ID	LMR11-26-048	LMR11-26-072	LMR11-26-096	LMR11-26-117	LMR11-27-006
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 117	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5.9 U	14	29	73	5.7
Benzo(g,h,i)perylene	NL	µg/kg	5.9 U	6.7	12	36	3.6 U
Benzo(k)fluoranthene	NL	µg/kg	5.9 U	5.7 U	8.8	26	4
Bis(2-chloroethoxy)methane	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Bis(2-chloroethyl)ether	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Butylbenzylphthalate	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Caprolactam	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Carbazole	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Chrysene	1290	µg/kg	7.6	9.8	19	61	9.6
Dibenzo(a,h)anthracene	NL	µg/kg	5.9 U	5.7 U	5.3 U	11	3.6 U
Dibenzofuran	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Diethylphthalate	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Dimethylphthalate	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Di-n-butylphthalate	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Di-n-octylphthalate	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Fluoranthene	2230	µg/kg	22	21	38	130	17
Fluorene	536	µg/kg	5.9 U	5.7 U	5.3 U	15	3.6 U
Hexachlorobenzene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Hexachlorobutadiene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Hexachlorocyclopentadiene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Hexachloroethane	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.9 U	6.1	11	33	3.6 U
Isophorone	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Naphthalene	561	µg/kg	5.9 U	6.1	5.3 U	11	3.6 U
Nitrobenzene	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
N-Nitroso-di-n-propylamine	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
N-Nitrosodiphenylamine	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Pentachlorophenol	NL	µg/kg	12 U	12 U	11 U	9.3 U	7.4 U
Phenanthrene	1170	µg/kg	14	14	28	92	5.1
Phenol	NL	µg/kg	310 U	290 U	270 U	230 U	190 U
Pyrene	1520	µg/kg	16	17	32	100	21
Total PAH 17	22800	µg/kg	97.95	130.85	234.35	753.4	93.5
TOC	NL	mg/kg	23,300	23,100	24,100	19,400	11,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-27	LMR11-27	LMR11-27	LMR11-27	LMR11-27
		Field Sample ID	LMR11-27-024	LMR11-27-048	LMR11-27-072	LMR11-27-096	LMR11-27-115
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	96- 115
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2,4,5-Trichlorophenol	NL	µg/kg	300 UJ	270 UJ	260 UJ	280 UJ	280 UJ
2,4,6-Trichlorophenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2,4-Dichlorophenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2,4-Dimethylphenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2,4-Dinitrophenol	NL	µg/kg	590 U	530 U	510 U	540 U	550 U
2,4-Dinitrotoluene	NL	µg/kg	300 UJ	270 UJ	260 UJ	280 UJ	280 UJ
2,6-Dinitrotoluene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2-Chloronaphthalene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2-Chlorophenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2-Methylnaphthalene	NL	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	5.5 U
2-Methylphenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
2-Nitroaniline	NL	µg/kg	590 U	530 U	510 U	540 U	550 U
2-Nitrophenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
3,3'-Dichlorobenzidine	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
3-Nitroaniline	NL	µg/kg	590 U	530 U	510 U	540 U	550 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	590 U	530 U	510 U	540 U	550 U
4-Bromophenyl-phenylether	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
4-Chloro-3-methylphenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
4-Chloroaniline	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
4-Chlorophenyl-phenylether	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
4-Methylphenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
4-Nitroaniline	NL	µg/kg	590 U	530 U	510 U	540 U	550 U
4-Nitrophenol	NL	µg/kg	590 U	530 U	510 U	540 U	550 U
Acenaphthene	NL	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	5.5 U
Acenaphthylene	NL	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	5.5 U
Acetophenone	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Anthracene	845	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	8.8
Atrazine	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Benzaldehyde	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Benzo(a)anthracene	1050	µg/kg	5.9 U	8.2	5.1 U	5.9	22
Benzo(a)pyrene	1450	µg/kg	5.9 U	11	5.1 U	9.3	21

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-27	LMR11-27	LMR11-27	LMR11-27	LMR11-27
		Field Sample ID	LMR11-27-024	LMR11-27-048	LMR11-27-072	LMR11-27-096	LMR11-27-115
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	96- 115
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5.9 U	15	5.1 U	12	30
Benzo(g,h,i)perylene	NL	µg/kg	5.9 U	5.9	5.1 U	5.4 U	11
Benzo(k)fluoranthene	NL	µg/kg	5.9 U	6.5	5.1 U	5.4 U	11
Bis(2-chloroethoxy)methane	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Bis(2-chloroethyl)ether	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Butylbenzylphthalate	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Caprolactam	NL	µg/kg	300 U	270 U	98 J	280 U	280 U
Carbazole	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Chrysene	1290	µg/kg	5.9 U	10	5.1 U	6.1	22
Dibenzo(a,h)anthracene	NL	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	5.5 U
Dibenzofuran	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Diethylphthalate	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Dimethylphthalate	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Di-n-butylphthalate	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Di-n-octylphthalate	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Fluoranthene	2230	µg/kg	5.9 U	33	6.3	17	48
Fluorene	536	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	5.5 U
Hexachlorobenzene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Hexachlorobutadiene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Hexachlorocyclopentadiene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Hexachloroethane	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.9 U	6	5.1 U	5.4 U	10
Isophorone	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Naphthalene	561	µg/kg	5.9 U	5.3 U	5.1 U	5.4 U	5.5 U
Nitrobenzene	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
N-Nitroso-di-n-propylamine	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
N-Nitrosodiphenylamine	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Pentachlorophenol	NL	µg/kg	12 UJ	11 UJ	10 UJ	11 UJ	11 UJ
Phenanthrene	1170	µg/kg	5.9 U	21	5.2	9.3	21
Phenol	NL	µg/kg	300 U	270 U	260 U	280 U	280 U
Pyrene	1520	µg/kg	7.1	19	5.1 U	12	37
Total PAH 17	22800	µg/kg	54.3	154.15	49.75	98.6	258.3
TOC	NL	mg/kg	21,500	22,600	25,500	26,100	28,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-28	LMR11-28	LMR11-29	LMR11-30	LMR11-31
		Field Sample ID	LMR11-28-006	LMR11-28-034	LMR11-29-006	LMR11-30-006	LMR11-31-006
		Sample Date	8/10/2011	8/10/2011	8/4/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	0- 6	6- 34	0- 6	0- 6	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2,4,5-Trichlorophenol	NL	µg/kg	380 UJ	210 UJ	210 U	240 U	230 U
2,4,6-Trichlorophenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2,4-Dichlorophenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2,4-Dimethylphenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2,4-Dinitrophenol	NL	µg/kg	730 U	410 U	400 U	470 U	450 U
2,4-Dinitrotoluene	NL	µg/kg	380 UJ	210 UJ	210 U	240 U	230 U
2,6-Dinitrotoluene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2-Chloronaphthalene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2-Chlorophenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2-Methylnaphthalene	NL	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
2-Methylphenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
2-Nitroaniline	NL	µg/kg	730 U	410 U	400 U	470 U	450 U
2-Nitrophenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
3,3'-Dichlorobenzidine	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
3-Nitroaniline	NL	µg/kg	730 U	410 U	400 U	470 U	450 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	730 U	410 U	400 U	470 U	450 U
4-Bromophenyl-phenylether	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
4-Chloro-3-methylphenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
4-Chloroaniline	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
4-Chlorophenyl-phenylether	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
4-Methylphenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
4-Nitroaniline	NL	µg/kg	730 U	410 U	400 U	470 U	450 U
4-Nitrophenol	NL	µg/kg	730 U	410 U	400 U	470 U	450 U
Acenaphthene	NL	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
Acenaphthylene	NL	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
Acetophenone	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Anthracene	845	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
Atrazine	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Benzaldehyde	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Benzo(a)anthracene	1050	µg/kg	13	4.1 U	6.7	6.8	4.5 U
Benzo(a)pyrene	1450	µg/kg	18	4.1 U	12	13	8.2

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-28	LMR11-28	LMR11-29	LMR11-30	LMR11-31
		Field Sample ID	LMR11-28-006	LMR11-28-034	LMR11-29-006	LMR11-30-006	LMR11-31-006
		Sample Date	8/10/2011	8/10/2011	8/4/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	0- 6	6- 34	0- 6	0- 6	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	31	4.1 U	10	9	5.2
Benzo(g,h,i)perylene	NL	µg/kg	14	4.1 U	4.3	4.7 U	4.5 U
Benzo(k)fluoranthene	NL	µg/kg	12	4.1 U	5	5.5	4.5 U
Bis(2-chloroethoxy)methane	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Bis(2-chloroethyl)ether	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	100 J	210 U	210 U	240 U	230 U
Butylbenzylphthalate	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Caprolactam	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Carbazole	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Chrysene	1290	µg/kg	18	5.8	6.8	7.9	4.5 U
Dibenzo(a,h)anthracene	NL	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
Dibenzofuran	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Diethylphthalate	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Dimethylphthalate	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Di-n-butylphthalate	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Di-n-octylphthalate	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Fluoranthene	2230	µg/kg	49	9	12	11	5.9
Fluorene	536	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
Hexachlorobenzene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Hexachlorobutadiene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Hexachlorocyclopentadiene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Hexachloroethane	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	12	4.1 U	5.3	4.7 U	4.5 U
Isophorone	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Naphthalene	561	µg/kg	7.3 U	4.1 U	4 U	4.7 U	4.5 U
Nitrobenzene	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
N-Nitroso-di-n-propylamine	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
N-Nitrosodiphenylamine	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Pentachlorophenol	NL	µg/kg	15 UJ	8.2 UJ	8.2 U	9.6 U	9 U
Phenanthrene	1170	µg/kg	30	16	4.9	6.9	4.5 U
Phenol	NL	µg/kg	380 U	210 U	210 U	240 U	230 U
Pyrene	1520	µg/kg	30	6.4	11	11	7.2
Total PAH 17	22800	µg/kg	252.55	63.85	92	92.25	55.75
TOC	NL	mg/kg	20,000	4,270	19,700	22,200	27,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-32	LMR11-32	LMR11-32	LMR11-32	LMR11-32
		Field Sample ID	LMR11-32-006	LMR11-32-024	LMR11-32-048	LMR11-32-072	LMR11-32-096
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,4,5-Trichlorophenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,4,6-Trichlorophenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,4-Dichlorophenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,4-Dimethylphenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,4-Dinitrophenol	NL	µg/kg	650 U	570 U	550 U	450 U	440 U
2,4-Dinitrotoluene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2,6-Dinitrotoluene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2-Chloronaphthalene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2-Chlorophenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
2-Methylnaphthalene	NL	µg/kg	6.5 U	5.7 U	5.5 U	18	62
2-Methylphenol	NL	µg/kg	340 UJ	290 UJ	280 UJ	230 UJ	230 UJ
2-Nitroaniline	NL	µg/kg	650 U	570 U	550 U	450 U	440 U
2-Nitrophenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
3,3'-Dichlorobenzidine	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
3-Nitroaniline	NL	µg/kg	650 U	570 U	550 U	450 U	440 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	650 U	570 U	550 U	450 U	440 U
4-Bromophenyl-phenylether	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
4-Chloro-3-methylphenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
4-Chloroaniline	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
4-Chlorophenyl-phenylether	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
4-Methylphenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
4-Nitroaniline	NL	µg/kg	650 U	570 U	550 U	450 U	440 U
4-Nitrophenol	NL	µg/kg	650 U	570 U	550 U	450 U	440 U
Acenaphthene	NL	µg/kg	6.5 U	5.7 U	5.5 U	14	89
Acenaphthylene	NL	µg/kg	6.5 U	5.7 U	6.7	20	35
Acetophenone	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Anthracene	845	µg/kg	15	16	16	31	210
Atrazine	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Benzaldehyde	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Benzo(a)anthracene	1050	µg/kg	64	37	40	130	450
Benzo(a)pyrene	1450	µg/kg	80	50	49	110	320

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-32	LMR11-32	LMR11-32	LMR11-32	LMR11-32
		Field Sample ID	LMR11-32-006	LMR11-32-024	LMR11-32-048	LMR11-32-072	LMR11-32-096
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	130	66	56	150	420
Benzo(g,h,i)perylene	NL	µg/kg	54	29	35	68	220
Benzo(k)fluoranthene	NL	µg/kg	43	25	25	55	180
Bis(2-chloroethoxy)methane	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Bis(2-chloroethyl)ether	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	340 U	180 J	230 J	230 U	230 U
Butylbenzylphthalate	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Caprolactam	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Carbazole	NL	µg/kg	340 U	290 U	280 U	230 U	64 J
Chrysene	1290	µg/kg	83	42	44	130	390
Dibenzo(a,h)anthracene	NL	µg/kg	16	5.7 U	10	31	74
Dibenzofuran	NL	µg/kg	340 U	290 U	280 U	230 U	50 J
Diethylphthalate	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Dimethylphthalate	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Di-n-butylphthalate	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Di-n-octylphthalate	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Fluoranthene	2230	µg/kg	180	100	92	220	940
Fluorene	536	µg/kg	6.5 U	5.7 U	5.7	15	100
Hexachlorobenzene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Hexachlorobutadiene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Hexachlorocyclopentadiene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Hexachloroethane	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	52	27	32	63	190
Isophorone	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Naphthalene	561	µg/kg	6.5 U	5.7 U	6	22	73
Nitrobenzene	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
N-Nitroso-di-n-propylamine	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
N-Nitrosodiphenylamine	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Pentachlorophenol	NL	µg/kg	13 U	12 U	11 U	9.2 U	8.9 U
Phenanthrene	1170	µg/kg	81	73	62	130	740
Phenol	NL	µg/kg	340 U	290 U	280 U	230 U	230 U
Pyrene	1520	µg/kg	120	73	59	210	710
Total PAH 17	22800	µg/kg	934.25	555.1	543.9	1,417	5,203
TOC	NL	mg/kg	29,600	33,500	22,900	21,400	66,200

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-32	LMR11-33	LMR11-34	LMR11-35	LMR11-35
		Field Sample ID	LMR11-32-116	LMR11-33-006	LMR11-34-006	LMR11-35-006	LMR11-35-024
		Sample Date	8/10/2011	8/4/2011	8/4/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	96- 116	0- 6	0- 6	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,4,5-Trichlorophenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,4,6-Trichlorophenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,4-Dichlorophenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,4-Dimethylphenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,4-Dinitrophenol	NL	µg/kg	470 U	360 U	470 U	650 U	590 U
2,4-Dinitrotoluene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2,6-Dinitrotoluene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2-Chloronaphthalene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2-Chlorophenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
2-Methylnaphthalene	NL	µg/kg	38	3.6 U	4.7 U	6.5 U	5.9 U
2-Methylphenol	NL	µg/kg	240 UJ	190 U	240 U	340 U	300 U
2-Nitroaniline	NL	µg/kg	470 U	360 U	470 U	650 U	590 U
2-Nitrophenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
3,3'-Dichlorobenzidine	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
3-Nitroaniline	NL	µg/kg	470 U	360 U	470 U	650 U	590 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	470 U	360 U	470 U	650 U	590 U
4-Bromophenyl-phenylether	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
4-Chloro-3-methylphenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
4-Chloroaniline	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
4-Chlorophenyl-phenylether	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
4-Methylphenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
4-Nitroaniline	NL	µg/kg	470 U	360 U	470 U	650 U	590 U
4-Nitrophenol	NL	µg/kg	470 U	360 U	470 U	650 U	590 U
Acenaphthene	NL	µg/kg	58	3.6 U	4.7 U	6.5 U	5.9 U
Acenaphthylene	NL	µg/kg	29	3.6 U	4.7 U	6.5 U	5.9 U
Acetophenone	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Anthracene	845	µg/kg	93	3.6 U	4.7 U	6.5 U	5.9 U
Atrazine	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Benzaldehyde	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Benzo(a)anthracene	1050	µg/kg	200	3.6 U	4.7 U	6.5 U	6.5
Benzo(a)pyrene	1450	µg/kg	160	6.6	4.7 U	6.5 U	7.4

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-32	LMR11-33	LMR11-34	LMR11-35	LMR11-35
		Field Sample ID	LMR11-32-116	LMR11-33-006	LMR11-34-006	LMR11-35-006	LMR11-35-024
		Sample Date	8/10/2011	8/4/2011	8/4/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	96- 116	0- 6	0- 6	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	220	3.6 U	4.7 U	7	11
Benzo(g,h,i)perylene	NL	µg/kg	94	3.6 U	4.7 U	6.5 U	5.9 U
Benzo(k)fluoranthene	NL	µg/kg	60	3.6 U	4.7 U	6.5 U	5.9 U
Bis(2-chloroethoxy)methane	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Bis(2-chloroethyl)ether	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Butylbenzylphthalate	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Caprolactam	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Carbazole	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Chrysene	1290	µg/kg	200	3.6 U	4.7 U	7.9	7.5
Dibenzo(a,h)anthracene	NL	µg/kg	39	3.6 U	4.7 U	6.5 U	5.9 U
Dibenzofuran	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Diethylphthalate	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Dimethylphthalate	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Di-n-butylphthalate	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Di-n-octylphthalate	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Fluoranthene	2230	µg/kg	530	3.8	5.1	25	22
Fluorene	536	µg/kg	71	3.6 U	4.7 U	6.5 U	5.9 U
Hexachlorobenzene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Hexachlorobutadiene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Hexachlorocyclopentadiene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Hexachloroethane	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	84	3.6 U	4.7 U	6.5 U	5.9 U
Isophorone	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Naphthalene	561	µg/kg	34	3.6 U	4.7 U	6.5 U	5.9 U
Nitrobenzene	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
N-Nitroso-di-n-propylamine	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
N-Nitrosodiphenylamine	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Pentachlorophenol	NL	µg/kg	9.5 U	7.4 U	9.4 U	13 U	12 U
Phenanthrene	1170	µg/kg	460	3.6 U	4.7 U	19	16
Phenol	NL	µg/kg	240 U	190 U	240 U	340 U	300 U
Pyrene	1520	µg/kg	430	5.2	5.7	17	15
Total PAH 17	22800	µg/kg	2,800	40.8	46.05	114.9	114.9
TOC	NL	mg/kg	17,700	19,700	18,300	36,000	27,700

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-35	LMR11-35	LMR11-35	LMR11-35	LMR11-35
		Field Sample ID	LMR11-35-024FS	LMR11-35-048	LMR11-35-072	LMR11-35-096	LMR11-35-116
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	96- 116
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,4,5-Trichlorophenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,4,6-Trichlorophenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,4-Dichlorophenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,4-Dimethylphenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,4-Dinitrophenol	NL	µg/kg	600 U	630 U	570 U	590 U	500 U
2,4-Dinitrotoluene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2,6-Dinitrotoluene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2-Chloronaphthalene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2-Chlorophenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2-Methylnaphthalene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5 U
2-Methylphenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
2-Nitroaniline	NL	µg/kg	600 U	630 U	570 U	590 U	500 U
2-Nitrophenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
3,3'-Dichlorobenzidine	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
3-Nitroaniline	NL	µg/kg	600 U	630 U	570 U	590 U	500 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	600 U	630 U	570 U	590 U	500 U
4-Bromophenyl-phenylether	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
4-Chloro-3-methylphenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
4-Chloroaniline	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
4-Chlorophenyl-phenylether	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
4-Methylphenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
4-Nitroaniline	NL	µg/kg	600 U	630 U	570 U	590 U	500 U
4-Nitrophenol	NL	µg/kg	600 U	630 U	570 U	590 U	500 U
Acenaphthene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5 U
Acenaphthylene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5 U
Acetophenone	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Anthracene	845	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5.5
Atrazine	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Benzaldehyde	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Benzo(a)anthracene	1050	µg/kg	6 U	6.3 U	5.7 U	7.2	27
Benzo(a)pyrene	1450	µg/kg	6 U	6.3 U	5.7 U	5.9 U	34

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-35	LMR11-35	LMR11-35	LMR11-35	LMR11-35
		Field Sample ID	LMR11-35-024FS	LMR11-35-048	LMR11-35-072	LMR11-35-096	LMR11-35-116
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	96- 116
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6.2	6.9	5.7 U	7.1	42
Benzo(g,h,i)perylene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	16
Benzo(k)fluoranthene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	15
Bis(2-chloroethoxy)methane	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Bis(2-chloroethyl)ether	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Butylbenzylphthalate	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Caprolactam	NL	µg/kg	130 J	330 U	290 U	310 U	260 U
Carbazole	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Chrysene	1290	µg/kg	7.2	6.3 U	5.7 U	9.5	27
Dibenzo(a,h)anthracene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5.1
Dibenzofuran	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Diethylphthalate	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Dimethylphthalate	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Di-n-butylphthalate	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Di-n-octylphthalate	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Fluoranthene	2230	µg/kg	24	13	6.1	30	37
Fluorene	536	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5 U
Hexachlorobenzene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Hexachlorobutadiene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Hexachlorocyclopentadiene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Hexachloroethane	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6 U	6.3 U	5.7 U	5.9 U	16
Isophorone	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Naphthalene	561	µg/kg	6 U	6.3 U	5.7 U	5.9 U	5 U
Nitrobenzene	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
N-Nitroso-di-n-propylamine	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
N-Nitrosodiphenylamine	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Pentachlorophenol	NL	µg/kg	12 U	13 U	11 U	12 U	10 U
Phenanthrene	1170	µg/kg	17	9	5.7 U	21	22
Phenol	NL	µg/kg	310 U	330 U	290 U	310 U	260 U
Pyrene	1520	µg/kg	17	9.8	5.7 U	19	43
Total PAH 17	22800	µg/kg	107.4	79.65	51.7	126.25	302.1
TOC	NL	mg/kg	27,000	27,500	22,100	25,400	26,700

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-36	LMR11-37	LMR11-37	LMR11-37	LMR11-37
		Field Sample ID	LMR11-36-006	LMR11-37-006	LMR11-37-024	LMR11-37-048	LMR11-37-048-DP
		Sample Date	8/4/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,4,5-Trichlorophenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,4,6-Trichlorophenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,4-Dichlorophenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,4-Dimethylphenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,4-Dinitrophenol	NL	µg/kg	310 U	620 U	630 U	590 U	590 U
2,4-Dinitrotoluene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2,6-Dinitrotoluene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2-Chloronaphthalene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2-Chlorophenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2-Methylnaphthalene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
2-Methylphenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
2-Nitroaniline	NL	µg/kg	310 U	620 U	630 U	590 U	590 U
2-Nitrophenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
3,3'-Dichlorobenzidine	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
3-Nitroaniline	NL	µg/kg	310 U	620 U	630 U	590 U	590 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	310 U	620 U	630 U	590 U	590 U
4-Bromophenyl-phenylether	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
4-Chloro-3-methylphenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
4-Chloroaniline	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
4-Chlorophenyl-phenylether	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
4-Methylphenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
4-Nitroaniline	NL	µg/kg	310 U	620 U	630 U	590 U	590 U
4-Nitrophenol	NL	µg/kg	310 U	620 U	630 U	590 U	590 U
Acenaphthene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Acenaphthylene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Acetophenone	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Anthracene	845	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Atrazine	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Benzaldehyde	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Benzo(a)anthracene	1050	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Benzo(a)pyrene	1450	µg/kg	3.1 U	6.2 U	7.5	5.9 U	5.9 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-36	LMR11-37	LMR11-37	LMR11-37	LMR11-37
		Field Sample ID	LMR11-36-006	LMR11-37-006	LMR11-37-024	LMR11-37-048	LMR11-37-048-DP
		Sample Date	8/4/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	3.1 U	11	9.2	5.9 U	5.9 U
Benzo(g,h,i)perylene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Benzo(k)fluoranthene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Bis(2-chloroethoxy)methane	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Bis(2-chloroethyl)ether	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Butylbenzylphthalate	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Caprolactam	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Carbazole	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Chrysene	1290	µg/kg	3.1 U	6.4	6.3 U	5.9 U	5.9 U
Dibenzo(a,h)anthracene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Dibenzofuran	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Diethylphthalate	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Dimethylphthalate	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Di-n-butylphthalate	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Di-n-octylphthalate	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Fluoranthene	2230	µg/kg	4.4	21	14	6.4	5.9 U
Fluorene	536	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Hexachlorobenzene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Hexachlorobutadiene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Hexachlorocyclopentadiene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Hexachloroethane	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Isophorone	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Naphthalene	561	µg/kg	3.1 U	6.2 U	6.3 U	5.9 U	5.9 U
Nitrobenzene	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
N-Nitroso-di-n-propylamine	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
N-Nitrosodiphenylamine	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Pentachlorophenol	NL	µg/kg	6.3 U	13 U	13 U	12 U	12 U
Phenanthrene	1170	µg/kg	3.1 U	15	9.9	5.9 U	5.9 U
Phenol	NL	µg/kg	160 U	320 U	320 U	310 U	300 U
Pyrene	1520	µg/kg	4.7 J	14	9.4	6.2	5.9 U
Total PAH 17	22800	µg/kg	32.35	104.6	87.8	56.85	50.15
TOC	NL	mg/kg	20,100	22,400	22,700	24,500	22,200

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-37	LMR11-38	LMR11-38	LMR11-38	LMR11-38
		Field Sample ID	LMR11-37-072	LMR11-38-006	LMR11-38-024	LMR11-38-024-DP	LMR11-38-024FS
		Sample Date	8/10/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	48- 72	0- 6	6- 24	6- 24	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,4,5-Trichlorophenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,4,6-Trichlorophenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,4-Dichlorophenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,4-Dimethylphenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,4-Dinitrophenol	NL	µg/kg	560 U	620 U	540 U	540 U	590 U
2,4-Dinitrotoluene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2,6-Dinitrotoluene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2-Chloronaphthalene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2-Chlorophenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2-Methylnaphthalene	NL	µg/kg	5.6 U	6.2 U	5.4 U	5.4 U	5.9 U
2-Methylphenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
2-Nitroaniline	NL	µg/kg	560 U	620 U	540 U	540 U	590 U
2-Nitrophenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
3,3'-Dichlorobenzidine	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
3-Nitroaniline	NL	µg/kg	560 U	620 U	540 U	540 U	590 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	560 U	620 U	540 U	540 U	590 U
4-Bromophenyl-phenylether	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
4-Chloro-3-methylphenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
4-Chloroaniline	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
4-Chlorophenyl-phenylether	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
4-Methylphenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
4-Nitroaniline	NL	µg/kg	560 U	620 U	540 U	540 U	590 U
4-Nitrophenol	NL	µg/kg	560 U	620 U	540 U	540 U	590 U
Acenaphthene	NL	µg/kg	5.6 U	6.2 U	5.4 U	5.4 U	5.9 U
Acenaphthylene	NL	µg/kg	5.6 U	6.2 U	5.4 U	5.4 U	5.9 U
Acetophenone	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Anthracene	845	µg/kg	5.6 U	6.2 U	5.9	5.4 U	5.9 U
Atrazine	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Benzaldehyde	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Benzo(a)anthracene	1050	µg/kg	5.6 U	6.7	21	10	14
Benzo(a)pyrene	1450	µg/kg	5.6 U	7	15	9.6	13

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-37	LMR11-38	LMR11-38	LMR11-38	LMR11-38
		Field Sample ID	LMR11-37-072	LMR11-38-006	LMR11-38-024	LMR11-38-024-DP	LMR11-38-024FS
		Sample Date	8/10/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	48- 72	0- 6	6- 24	6- 24	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5.6 U	6.2 U	18	7.4	10
Benzo(g,h,i)perylene	NL	µg/kg	5.6 U	6.2 U	8.8	5.4 U	5.9 U
Benzo(k)fluoranthene	NL	µg/kg	5.6 U	6.2 U	7.6	5.4	6.9
Bis(2-chloroethoxy)methane	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Bis(2-chloroethyl)ether	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Butylbenzylphthalate	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Caprolactam	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Carbazole	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Chrysene	1290	µg/kg	5.6 U	7.8	24	11	15
Dibenzo(a,h)anthracene	NL	µg/kg	5.6 U	6.2 U	5.4 U	5.4 U	5.9 U
Dibenzofuran	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Diethylphthalate	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Dimethylphthalate	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Di-n-butylphthalate	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Di-n-octylphthalate	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Fluoranthene	2230	µg/kg	5.7	16	42	13	28
Fluorene	536	µg/kg	5.6 U	6.2 U	5.4 U	5.4 U	5.9 U
Hexachlorobenzene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Hexachlorobutadiene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Hexachlorocyclopentadiene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Hexachloroethane	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.6 U	6.2 U	7.8	5.4 U	5.9 U
Isophorone	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Naphthalene	561	µg/kg	5.6 U	6.2 U	5.4 U	5.4 U	5.9 U
Nitrobenzene	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
N-Nitroso-di-n-propylamine	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
N-Nitrosodiphenylamine	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Pentachlorophenol	NL	µg/kg	11 U	13 U	11 U	11 UJ	12 U
Phenanthrene	1170	µg/kg	5.6 U	9.1	22	5.8	18
Phenol	NL	µg/kg	290 U	320 U	280 U	280 U	300 U
Pyrene	1520	µg/kg	6	16	38	14	26
Total PAH 17	22800	µg/kg	53.7	96.7	226.3	100.5	157.45
TOC	NL	mg/kg	19,600	37,700	21,000	24,700	18,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-39
		Field Sample ID	LMR11-38-048	LMR11-38-048-DP	LMR11-38-072	LMR11-38-072-DP	LMR11-39-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/4/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	48- 72	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,4,5-Trichlorophenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,4,6-Trichlorophenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,4-Dichlorophenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,4-Dimethylphenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,4-Dinitrophenol	NL	µg/kg	560 U	560 U	570 U	610 U	290 U
2,4-Dinitrotoluene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2,6-Dinitrotoluene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2-Chloronaphthalene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2-Chlorophenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2-Methylnaphthalene	NL	µg/kg	5.6 U	5.6 U	5.7 U	6.1 U	2.9 U
2-Methylphenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
2-Nitroaniline	NL	µg/kg	560 U	560 U	570 U	610 U	290 U
2-Nitrophenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
3,3'-Dichlorobenzidine	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
3-Nitroaniline	NL	µg/kg	560 U	560 U	570 U	610 U	290 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	560 U	560 U	570 U	610 U	290 U
4-Bromophenyl-phenylether	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
4-Chloro-3-methylphenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
4-Chloroaniline	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
4-Chlorophenyl-phenylether	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
4-Methylphenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
4-Nitroaniline	NL	µg/kg	560 U	560 U	570 U	610 U	290 U
4-Nitrophenol	NL	µg/kg	560 U	560 U	570 U	610 U	290 U
Acenaphthene	NL	µg/kg	5.6 U	5.6 U	5.7 U	6.1 U	2.9 U
Acenaphthylene	NL	µg/kg	20	5.6 U	5.7 U	6.1 U	2.9 U
Acetophenone	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Anthracene	845	µg/kg	9.1	5.6 U	5.7 U	6.1 U	2.9 U
Atrazine	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Benzaldehyde	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Benzo(a)anthracene	1050	µg/kg	50	16	5.7 U	6.1 U	2.9 U
Benzo(a)pyrene	1450	µg/kg	31	12	5.7 U	6.1 U	5.3

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-39
		Field Sample ID	LMR11-38-048	LMR11-38-048-DP	LMR11-38-072	LMR11-38-072-DP	LMR11-39-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/4/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	48- 72	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	28	17	5.7 U	6.1 U	3.9
Benzo(g,h,i)perylene	NL	µg/kg	15	5.6 U	5.7 U	6.1 U	2.9 U
Benzo(k)fluoranthene	NL	µg/kg	12	8.7	5.7 U	6.1 U	2.9 U
Bis(2-chloroethoxy)methane	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Bis(2-chloroethyl)ether	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Butylbenzylphthalate	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Caprolactam	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Carbazole	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Chrysene	1290	µg/kg	47	20	5.7 U	7.1	3.8
Dibenzo(a,h)anthracene	NL	µg/kg	5.6 U	5.6 U	5.7 U	6.1 U	2.9 U
Dibenzofuran	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Diethylphthalate	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Dimethylphthalate	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Di-n-butylphthalate	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Di-n-octylphthalate	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Fluoranthene	2230	µg/kg	50	17	7.8	9.5	6.6
Fluorene	536	µg/kg	5.6 U	5.6 U	5.7 U	6.1 U	2.9 U
Hexachlorobenzene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Hexachlorobutadiene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Hexachlorocyclopentadiene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Hexachloroethane	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	12	5.6 U	5.7 U	6.1 U	2.9 U
Isophorone	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Naphthalene	561	µg/kg	5.6 U	5.6 U	5.7 U	6.1 U	2.9 U
Nitrobenzene	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
N-Nitroso-di-n-propylamine	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
N-Nitrosodiphenylamine	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Pentachlorophenol	NL	µg/kg	11 U	11 U	11 U	12 UJ	6 U
Phenanthrene	1170	µg/kg	10	11	5.7	7.3	4.4
Phenol	NL	µg/kg	290 U	290 U	290 U	310 U	150 U
Pyrene	1520	µg/kg	86	20	9.3	10 J	6.3
Total PAH 17	22800	µg/kg	384.1	146.9	62.7	73.55	46.25
TOC	NL	mg/kg	25,700	35,500	26,900	27,000	13,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-40	LMR11-40	LMR11-40	LMR11-40	LMR11-41
		Field Sample ID	LMR11-40-006	LMR11-40-024	LMR11-40-048	LMR11-40-084	LMR11-41-006
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 84	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,4,5-Trichlorophenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,4,6-Trichlorophenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,4-Dichlorophenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,4-Dimethylphenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,4-Dinitrophenol	NL	µg/kg	420 U	420 U	460 U	410 U	400 U
2,4-Dinitrotoluene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2,6-Dinitrotoluene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2-Chloronaphthalene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2-Chlorophenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
2-Methylnaphthalene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
2-Methylphenol	NL	µg/kg	220 UJ	220 UJ	240 UJ	210 UJ	200 U
2-Nitroaniline	NL	µg/kg	420 U	420 U	460 U	410 U	400 U
2-Nitrophenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
3,3'-Dichlorobenzidine	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
3-Nitroaniline	NL	µg/kg	420 U	420 U	460 U	410 U	400 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	420 U	420 U	460 U	410 U	400 U
4-Bromophenyl-phenylether	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
4-Chloro-3-methylphenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
4-Chloroaniline	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
4-Chlorophenyl-phenylether	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
4-Methylphenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
4-Nitroaniline	NL	µg/kg	420 U	420 U	460 U	410 U	400 U
4-Nitrophenol	NL	µg/kg	420 U	420 U	460 U	410 U	400 U
Acenaphthene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Acenaphthylene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Acetophenone	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Anthracene	845	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Atrazine	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Benzaldehyde	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Benzo(a)anthracene	1050	µg/kg	4.7	4.2 U	4.6 U	4.1 U	4.9
Benzo(a)pyrene	1450	µg/kg	4.6	4.2 U	4.6 U	4.1 U	9.4

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-40	LMR11-40	LMR11-40	LMR11-40	LMR11-41
		Field Sample ID	LMR11-40-006	LMR11-40-024	LMR11-40-048	LMR11-40-084	LMR11-41-006
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 84	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	7.1	4.2 U	4.6 U	4.1 U	8
Benzo(g,h,i)perylene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Benzo(k)fluoranthene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Bis(2-chloroethoxy)methane	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Bis(2-chloroethyl)ether	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Butylbenzylphthalate	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Caprolactam	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Carbazole	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Chrysene	1290	µg/kg	5.7	5.5	4.6 U	4.1 U	6.3
Dibenzo(a,h)anthracene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Dibenzofuran	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Diethylphthalate	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Dimethylphthalate	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Di-n-butylphthalate	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Di-n-octylphthalate	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Fluoranthene	2230	µg/kg	14	10	4.6 U	4.1 U	9
Fluorene	536	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Hexachlorobenzene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Hexachlorobutadiene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Hexachlorocyclopentadiene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Hexachloroethane	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Isophorone	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Naphthalene	561	µg/kg	4.2 U	4.2 U	4.6 U	4.1 U	4 U
Nitrobenzene	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
N-Nitroso-di-n-propylamine	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
N-Nitrosodiphenylamine	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Pentachlorophenol	NL	µg/kg	8.5 U	8.5 U	9.3 U	8.3 U	8.1 U
Phenanthrene	1170	µg/kg	8.6	12	4.6 U	6.5	4.8
Phenol	NL	µg/kg	220 U	220 U	240 U	210 U	200 U
Pyrene	1520	µg/kg	10	7.1	4.6 U	4.1 U	9.8
Total PAH 17	22800	µg/kg	75.7	61.9	39.1	39.3	72.2
TOC	NL	mg/kg	12,100	5,150	14,100	21,800	25,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-42
		Field Sample ID	LMR11-42-006	LMR11-42-024	LMR11-42-048	LMR11-42-048FS	LMR11-42-072
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,4,5-Trichlorophenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,4,6-Trichlorophenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,4-Dichlorophenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,4-Dimethylphenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,4-Dinitrophenol	NL	µg/kg	510 U	520 UJ	530 U	500 U	440 U
2,4-Dinitrotoluene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2,6-Dinitrotoluene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2-Chloronaphthalene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2-Chlorophenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2-Methylnaphthalene	NL	µg/kg	5.1 U	44 J	5.3 U	5 U	4.4 U
2-Methylphenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
2-Nitroaniline	NL	µg/kg	510 U	520 UJ	530 U	500 U	440 U
2-Nitrophenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
3,3'-Dichlorobenzidine	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
3-Nitroaniline	NL	µg/kg	510 U	520 UJ	530 U	500 U	440 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	510 U	520 UJ	530 U	500 U	440 U
4-Bromophenyl-phenylether	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
4-Chloro-3-methylphenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
4-Chloroaniline	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
4-Chlorophenyl-phenylether	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
4-Methylphenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
4-Nitroaniline	NL	µg/kg	510 U	520 UJ	530 U	500 U	440 U
4-Nitrophenol	NL	µg/kg	510 U	520 UJ	530 U	500 U	440 U
Acenaphthene	NL	µg/kg	5.1 U	12 J	5.3 U	5 U	4.4 U
Acenaphthylene	NL	µg/kg	5.1 U	9.4 J	5.3 U	5 U	4.4 U
Acetophenone	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Anthracene	845	µg/kg	5.1 U	34 J	5.3 U	5 U	4.4 U
Atrazine	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Benzaldehyde	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Benzo(a)anthracene	1050	µg/kg	5.1 U	73 J	6.2	5 U	5.9
Benzo(a)pyrene	1450	µg/kg	5.1 U	60 J	5.7	5 U	5.5

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-42
		Field Sample ID	LMR11-42-006	LMR11-42-024	LMR11-42-048	LMR11-42-048FS	LMR11-42-072
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5.1 U	120 J	5.3 U	5 U	4.9
Benzo(g,h,i)perylene	NL	µg/kg	5.1 U	48 J	5.3 U	5 U	4.4 U
Benzo(k)fluoranthene	NL	µg/kg	5.1 U	29 J	5.3 U	5 U	4.4 U
Bis(2-chloroethoxy)methane	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Bis(2-chloroethyl)ether	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	260 U	140 J	280 U	260 U	220 U
Butylbenzylphthalate	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Caprolactam	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Carbazole	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Chrysene	1290	µg/kg	5.1 U	90 J	6.6	5 U	8.9
Dibenzo(a,h)anthracene	NL	µg/kg	5.1 U	16 J	5.3 U	5 U	4.4 U
Dibenzofuran	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Diethylphthalate	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Dimethylphthalate	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Di-n-butylphthalate	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Di-n-octylphthalate	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Fluoranthene	2230	µg/kg	5.2	210 J	13	5.1	14
Fluorene	536	µg/kg	5.1 U	21 J	5.3 U	5 U	4.4 U
Hexachlorobenzene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Hexachlorobutadiene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Hexachlorocyclopentadiene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Hexachloroethane	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.1 U	44 J	5.3 U	5 U	4.4 U
Isophorone	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Naphthalene	561	µg/kg	5.1 U	34 J	5.3 U	5 U	4.4 U
Nitrobenzene	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
N-Nitroso-di-n-propylamine	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
N-Nitrosodiphenylamine	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Pentachlorophenol	NL	µg/kg	10 U	11 UJ	11 U	10 UJ	8.9 UJ
Phenanthrene	1170	µg/kg	5.1 U	150 J	12	5.2	12
Phenol	NL	µg/kg	260 U	270 UJ	280 U	260 U	220 U
Pyrene	1520	µg/kg	6.5	160 J	13	6.3	15
Total PAH 17	22800	µg/kg	49.95	1,154	85.65	51.6	88.2
TOC	NL	mg/kg	47,600	14,700	37,400	29,900	16,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-42	LMR11-42	LMR11-43	LMR11-44	LMR11-44
		Field Sample ID	LMR11-42-096	LMR11-42-129	LMR11-43-030	LMR11-44-006	LMR11-44-024
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	72- 96	96- 129	24- 30	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,4,5-Trichlorophenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,4,6-Trichlorophenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,4-Dichlorophenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,4-Dimethylphenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,4-Dinitrophenol	NL	µg/kg	460 U	400 U	390 U	610 U	600 U
2,4-Dinitrotoluene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2,6-Dinitrotoluene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2-Chloronaphthalene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2-Chlorophenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2-Methylnaphthalene	NL	µg/kg	5.8	4 U	4.5	6.1 U	6 U
2-Methylphenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
2-Nitroaniline	NL	µg/kg	460 U	400 U	390 U	610 U	600 U
2-Nitrophenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
3,3'-Dichlorobenzidine	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
3-Nitroaniline	NL	µg/kg	460 U	400 U	390 U	610 U	600 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	460 U	400 U	390 U	610 U	600 U
4-Bromophenyl-phenylether	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
4-Chloro-3-methylphenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
4-Chloroaniline	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
4-Chlorophenyl-phenylether	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
4-Methylphenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
4-Nitroaniline	NL	µg/kg	460 U	400 U	390 U	610 U	600 U
4-Nitrophenol	NL	µg/kg	460 U	400 U	390 U	610 U	600 U
Acenaphthene	NL	µg/kg	5.3	4 U	3.9 U	6.1 U	6 U
Acenaphthylene	NL	µg/kg	4.6 U	4 U	3.9 U	6.1 U	6 U
Acetophenone	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Anthracene	845	µg/kg	20	4 U	7.1	6.1 U	6 U
Atrazine	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Benzaldehyde	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Benzo(a)anthracene	1050	µg/kg	36	4 U	17	6.1 U	6 U
Benzo(a)pyrene	1450	µg/kg	20	4 U	11	6.1 U	6 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-42	LMR11-42	LMR11-43	LMR11-44	LMR11-44
		Field Sample ID	LMR11-42-096	LMR11-42-129	LMR11-43-030	LMR11-44-006	LMR11-44-024
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	72- 96	96- 129	24- 30	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	23	4 U	16	6.1 U	6 U
Benzo(g,h,i)perylene	NL	µg/kg	12	4 U	7.3	6.1 U	6 U
Benzo(k)fluoranthene	NL	µg/kg	11	4 U	4.9	6.1 U	6 U
Bis(2-chloroethoxy)methane	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Bis(2-chloroethyl)ether	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Butylbenzylphthalate	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Caprolactam	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Carbazole	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Chrysene	1290	µg/kg	35	4 U	25	7.8	6 U
Dibenzo(a,h)anthracene	NL	µg/kg	4.6 U	4 U	3.9 U	6.1 U	6 U
Dibenzofuran	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Diethylphthalate	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Dimethylphthalate	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Di-n-butylphthalate	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Di-n-octylphthalate	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Fluoranthene	2230	µg/kg	73	4 U	40	13	9.2
Fluorene	536	µg/kg	8.3	4 U	4.1	6.1 U	6 U
Hexachlorobenzene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Hexachlorobutadiene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Hexachlorocyclopentadiene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Hexachloroethane	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	10	4 U	5.6	6.1 U	6 U
Isophorone	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Naphthalene	561	µg/kg	6.4	4 U	4.7	6.1 U	6 U
Nitrobenzene	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
N-Nitroso-di-n-propylamine	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
N-Nitrosodiphenylamine	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Pentachlorophenol	NL	µg/kg	9.3 UJ	8.2 UJ	7.9 UJ	12 UJ	12 UJ
Phenanthrene	1170	µg/kg	57	4.2	26	8.7	6.6
Phenol	NL	µg/kg	230 U	210 U	200 U	320 U	310 U
Pyrene	1520	µg/kg	67	4.7	50	13	10
Total PAH 17	22800	µg/kg	394.4	38.9	229.05	82.15	67.8
TOC	NL	mg/kg	38,600	11,700	24,800	24,000	35,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-44	LMR11-44	LMR11-44	LMR11-44	LMR11-45
		Field Sample ID	LMR11-44-024FS	LMR11-44-048	LMR11-44-072	LMR11-44-096	LMR11-45-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,4,5-Trichlorophenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,4,6-Trichlorophenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,4-Dichlorophenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,4-Dimethylphenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,4-Dinitrophenol	NL	µg/kg	600 U	520 U	460 U	490 U	670 U
2,4-Dinitrotoluene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2,6-Dinitrotoluene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2-Chloronaphthalene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2-Chlorophenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2-Methylnaphthalene	NL	µg/kg	6 U	5.2 U	12	4.9 U	6.7 U
2-Methylphenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
2-Nitroaniline	NL	µg/kg	600 U	520 U	460 U	490 U	670 U
2-Nitrophenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
3,3'-Dichlorobenzidine	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
3-Nitroaniline	NL	µg/kg	600 U	520 U	460 U	490 U	670 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	600 U	520 U	460 U	490 U	670 U
4-Bromophenyl-phenylether	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
4-Chloro-3-methylphenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
4-Chloroaniline	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
4-Chlorophenyl-phenylether	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
4-Methylphenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
4-Nitroaniline	NL	µg/kg	600 U	520 U	460 U	490 U	670 U
4-Nitrophenol	NL	µg/kg	600 U	520 U	460 U	490 U	670 U
Acenaphthene	NL	µg/kg	6 U	5.2 U	4.6 U	4.9 U	6.7 U
Acenaphthylene	NL	µg/kg	6 U	5.2 U	4.6 U	4.9 U	6.7 U
Acetophenone	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Anthracene	845	µg/kg	8.1	5.2 U	6.4	4.9 U	6.7 U
Atrazine	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Benzaldehyde	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Benzo(a)anthracene	1050	µg/kg	26	5.2 U	12	12	9.8
Benzo(a)pyrene	1450	µg/kg	15	5.2 U	7.1	8.4	9

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-44	LMR11-44	LMR11-44	LMR11-44	LMR11-45
		Field Sample ID	LMR11-44-024FS	LMR11-44-048	LMR11-44-072	LMR11-44-096	LMR11-45-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	18	5.2 U	6.8	8.3	7.9
Benzo(g,h,i)perylene	NL	µg/kg	7.8	5.2 U	4.6 U	4.9 U	6.7 U
Benzo(k)fluoranthene	NL	µg/kg	6.6	5.2 U	4.6 U	4.9 U	6.7 U
Bis(2-chloroethoxy)methane	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Bis(2-chloroethyl)ether	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Butylbenzylphthalate	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Caprolactam	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Carbazole	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Chrysene	1290	µg/kg	25	5.2 U	15	14	11
Dibenzo(a,h)anthracene	NL	µg/kg	6 U	5.2 U	4.6 U	4.9 U	6.7 U
Dibenzofuran	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Diethylphthalate	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Dimethylphthalate	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Di-n-butylphthalate	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Di-n-octylphthalate	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Fluoranthene	2230	µg/kg	47	9.8	27	27	18
Fluorene	536	µg/kg	6 U	5.2 U	5	4.9 U	6.7 U
Hexachlorobenzene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Hexachlorobutadiene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Hexachlorocyclopentadiene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Hexachloroethane	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.8	5.2 U	4.6 U	4.9 U	6.7 U
Isophorone	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Naphthalene	561	µg/kg	6.4	5.2 U	11	5.5	6.7 U
Nitrobenzene	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
N-Nitroso-di-n-propylamine	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
N-Nitrosodiphenylamine	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Pentachlorophenol	NL	µg/kg	12 UJ	11 UJ	9.4 UJ	9.9 UJ	14 U
Phenanthrene	1170	µg/kg	29	9.6	28	21	8.1
Phenol	NL	µg/kg	310 U	270 U	240 U	250 U	350 U
Pyrene	1520	µg/kg	43	11	27	26	19 J
Total PAH 17	22800	µg/kg	253.7	66.8	171.1	144.25	116.3
TOC	NL	mg/kg	27,600	27,100	26,200	19,500	26,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-45	LMR11-45	LMR11-45	LMR11-45	LMR11-45
		Field Sample ID	LMR11-45-024	LMR11-45-048	LMR11-45-048FS	LMR11-45-072	LMR11-45-096
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	310 UJ	300 U	300 U	300 U	300 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,4,5-Trichlorophenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,4,6-Trichlorophenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,4-Dichlorophenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,4-Dimethylphenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,4-Dinitrophenol	NL	µg/kg	600 U	570 U	570 U	580 U	580 U
2,4-Dinitrotoluene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2,6-Dinitrotoluene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2-Chloronaphthalene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2-Chlorophenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2-Methylnaphthalene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
2-Methylphenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
2-Nitroaniline	NL	µg/kg	600 U	570 U	570 U	580 U	580 U
2-Nitrophenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
3,3'-Dichlorobenzidine	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
3-Nitroaniline	NL	µg/kg	600 U	570 U	570 U	580 U	580 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	600 U	570 U	570 U	580 U	580 U
4-Bromophenyl-phenylether	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
4-Chloro-3-methylphenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
4-Chloroaniline	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
4-Chlorophenyl-phenylether	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
4-Methylphenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
4-Nitroaniline	NL	µg/kg	600 U	570 U	570 U	580 U	580 U
4-Nitrophenol	NL	µg/kg	600 U	570 U	570 U	580 U	580 U
Acenaphthene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Acenaphthylene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Acetophenone	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Anthracene	845	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Atrazine	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Benzaldehyde	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Benzo(a)anthracene	1050	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Benzo(a)pyrene	1450	µg/kg	6 U	5.7 U	5.7 U	5.8 U	6.1

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-45	LMR11-45	LMR11-45	LMR11-45	LMR11-45
		Field Sample ID	LMR11-45-024	LMR11-45-048	LMR11-45-048FS	LMR11-45-072	LMR11-45-096
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Benzo(g,h,i)perylene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Benzo(k)fluoranthene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Bis(2-chloroethoxy)methane	NL	µg/kg	310 UJ	300 U	300 U	300 U	300 U
Bis(2-chloroethyl)ether	NL	µg/kg	310 UJ	300 U	300 U	300 U	300 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Butylbenzylphthalate	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Caprolactam	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Carbazole	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Chrysene	1290	µg/kg	7.2	6.4	7.3	5.8 U	6.7
Dibenzo(a,h)anthracene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Dibenzofuran	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Diethylphthalate	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Dimethylphthalate	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Di-n-butylphthalate	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Di-n-octylphthalate	NL	µg/kg	82 J	300 U	300 U	300 U	300 U
Fluoranthene	2230	µg/kg	14	13	13	5.8 U	12
Fluorene	536	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Hexachlorobenzene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Hexachlorobutadiene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Hexachlorocyclopentadiene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Hexachloroethane	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Isophorone	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Naphthalene	561	µg/kg	6 U	5.7 U	5.7 U	5.8 U	5.8 U
Nitrobenzene	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
N-Nitroso-di-n-propylamine	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
N-Nitrosodiphenylamine	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Pentachlorophenol	NL	µg/kg	12 UJ	12 U	12 U	12 U	12 U
Phenanthrene	1170	µg/kg	9.1	10	9.6	5.8 U	8.8
Phenol	NL	µg/kg	310 U	300 U	300 U	300 U	300 U
Pyrene	1520	µg/kg	15	15	15	7.3	14
Total PAH 17	22800	µg/kg	84.3	81.45	81.95	53.7	82.4
TOC	NL	mg/kg	23,500	33,800	26,500	33,100	34,300

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-46	LMR11-46	LMR11-46	LMR11-46	LMR11-46
		Field Sample ID	LMR11-46-006	LMR11-46-024	LMR11-46-024FS	LMR11-46-048	LMR11-46-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,4,5-Trichlorophenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,4,6-Trichlorophenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,4-Dichlorophenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,4-Dimethylphenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,4-Dinitrophenol	NL	µg/kg	650 U	630 U	590 U	550 U	400 U
2,4-Dinitrotoluene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2,6-Dinitrotoluene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2-Chloronaphthalene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2-Chlorophenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2-Methylnaphthalene	NL	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	4 U
2-Methylphenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
2-Nitroaniline	NL	µg/kg	650 U	630 U	590 U	550 U	400 U
2-Nitrophenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
3,3'-Dichlorobenzidine	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
3-Nitroaniline	NL	µg/kg	650 U	630 U	590 U	550 U	400 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	650 U	630 U	590 U	550 U	400 U
4-Bromophenyl-phenylether	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
4-Chloro-3-methylphenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
4-Chloroaniline	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
4-Chlorophenyl-phenylether	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
4-Methylphenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
4-Nitroaniline	NL	µg/kg	650 U	630 U	590 U	550 U	400 U
4-Nitrophenol	NL	µg/kg	650 U	630 U	590 U	550 U	400 U
Acenaphthene	NL	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	4 U
Acenaphthylene	NL	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	4 U
Acetophenone	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Anthracene	845	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	6.6
Atrazine	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Benzaldehyde	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Benzo(a)anthracene	1050	µg/kg	6.5 U	11	11	5.5 U	11
Benzo(a)pyrene	1450	µg/kg	14	22	23	12	12

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-46	LMR11-46	LMR11-46	LMR11-46	LMR11-46
		Field Sample ID	LMR11-46-006	LMR11-46-024	LMR11-46-024FS	LMR11-46-048	LMR11-46-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6.5 U	18	19	5.9	14
Benzo(g,h,i)perylene	NL	µg/kg	6.5 U	7.4	8.3	5.5 U	4.9
Benzo(k)fluoranthene	NL	µg/kg	6.5 U	6.3 U	6.9	5.5 U	4.8
Bis(2-chloroethoxy)methane	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Bis(2-chloroethyl)ether	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Butylbenzylphthalate	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Caprolactam	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Carbazole	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Chrysene	1290	µg/kg	6.5 U	13	12	5.5 U	16
Dibenzo(a,h)anthracene	NL	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	4 U
Dibenzofuran	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Diethylphthalate	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Dimethylphthalate	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Di-n-butylphthalate	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Di-n-octylphthalate	NL	µg/kg	330 U	320 U	300 U	280 U	210 UJ
Fluoranthene	2230	µg/kg	6.5 U	25	23	8	32
Fluorene	536	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	4 U
Hexachlorobenzene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Hexachlorobutadiene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Hexachlorocyclopentadiene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Hexachloroethane	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.5 U	7.1	7.4	5.5 U	4 U
Isophorone	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Naphthalene	561	µg/kg	6.5 U	6.3 U	5.9 U	5.5 U	4 U
Nitrobenzene	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
N-Nitroso-di-n-propylamine	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
N-Nitrosodiphenylamine	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Pentachlorophenol	NL	µg/kg	13 U	13 U	12 U	11 U	8.2 U
Phenanthrene	1170	µg/kg	6.5 U	16	11	5.8	26
Phenol	NL	µg/kg	330 U	320 U	300 U	280 U	210 U
Pyrene	1520	µg/kg	8	25	25	9.5	31
Total PAH 17	22800	µg/kg	70.75	169.7	167.25	74.2	172.3
TOC	NL	mg/kg	43,300	19,700	24,900	28,300	20,300

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-46	LMR11-47	LMR11-47	LMR11-47	LMR11-47
		Field Sample ID	LMR11-46-093	LMR11-47-006	LMR11-47-024	LMR11-47-048	LMR11-47-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	72- 93	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,4,5-Trichlorophenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,4,6-Trichlorophenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,4-Dichlorophenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,4-Dimethylphenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,4-Dinitrophenol	NL	µg/kg	480 U	660 U	610 U	560 U	560 U
2,4-Dinitrotoluene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2,6-Dinitrotoluene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2-Chloronaphthalene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2-Chlorophenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2-Methylnaphthalene	NL	µg/kg	11	6.6 U	6.1 U	5.6 U	5.6 U
2-Methylphenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
2-Nitroaniline	NL	µg/kg	480 U	660 U	610 U	560 U	560 U
2-Nitrophenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
3,3'-Dichlorobenzidine	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
3-Nitroaniline	NL	µg/kg	480 U	660 U	610 U	560 U	560 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	480 U	660 U	610 U	560 U	560 U
4-Bromophenyl-phenylether	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
4-Chloro-3-methylphenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
4-Chloroaniline	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
4-Chlorophenyl-phenylether	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
4-Methylphenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
4-Nitroaniline	NL	µg/kg	480 U	660 U	610 U	560 U	560 U
4-Nitrophenol	NL	µg/kg	480 U	660 U	610 U	560 U	560 U
Acenaphthene	NL	µg/kg	5.4	6.6 U	6.1 U	5.6 U	5.6 U
Acenaphthylene	NL	µg/kg	5.3	6.6 U	6.1 U	5.6 U	5.6 U
Acetophenone	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Anthracene	845	µg/kg	43	6.6 U	6.1 U	5.6 U	5.6
Atrazine	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Benzaldehyde	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Benzo(a)anthracene	1050	µg/kg	98	6.6 U	6.1 U	6	15
Benzo(a)pyrene	1450	µg/kg	91	24	9.4	15	21

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-46	LMR11-47	LMR11-47	LMR11-47	LMR11-47
		Field Sample ID	LMR11-46-093	LMR11-47-006	LMR11-47-024	LMR11-47-048	LMR11-47-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	72- 93	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	97	16	9	10	21
Benzo(g,h,i)perylene	NL	µg/kg	50	7.8	6.1 U	5.6 U	8.8
Benzo(k)fluoranthene	NL	µg/kg	52	6.6 U	6.1 U	5.6 U	7.5
Bis(2-chloroethoxy)methane	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Bis(2-chloroethyl)ether	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Butylbenzylphthalate	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Caprolactam	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Carbazole	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Chrysene	1290	µg/kg	94	9.1	6.3	6.8	16
Dibenzo(a,h)anthracene	NL	µg/kg	19	6.6 U	6.1 U	5.6 U	5.6 U
Dibenzofuran	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Diethylphthalate	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Dimethylphthalate	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Di-n-butylphthalate	NL	µg/kg	65 J	340 U	310 U	290 U	290 U
Di-n-octylphthalate	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Fluoranthene	2230	µg/kg	170	13	14	12	30
Fluorene	536	µg/kg	8.4	6.6 U	6.1 U	5.6 U	5.6 U
Hexachlorobenzene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Hexachlorobutadiene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Hexachlorocyclopentadiene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Hexachloroethane	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	42	7.1	6.1 U	5.6 U	8.3
Isophorone	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Naphthalene	561	µg/kg	13	6.6 U	6.1 U	5.6 U	5.6 U
Nitrobenzene	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
N-Nitroso-di-n-propylamine	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
N-Nitrosodiphenylamine	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Pentachlorophenol	NL	µg/kg	9.7 U	13 U	12 U	11 U	11 U
Phenanthrene	1170	µg/kg	76	6.6 U	9.7	6.7	17
Phenol	NL	µg/kg	250 U	340 U	310 U	290 U	290 U
Pyrene	1520	µg/kg	170	16	13	13	28
Total PAH 17	22800	µg/kg	1045.1	126	94.95	97.5	195
TOC	NL	mg/kg	29,600	26,000	22,600	17,300	28,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-47	LMR11-47	LMR11-47	LMR11-48	LMR11-48
		Field Sample ID	LMR11-47-096	LMR11-47-120	LMR11-47-144	LMR11-48-006	LMR11-48-024
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	72- 96	96- 120	120- 144	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,4,5-Trichlorophenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,4,6-Trichlorophenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,4-Dichlorophenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,4-Dimethylphenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,4-Dinitrophenol	NL	µg/kg	570 U	530 U	570 U	760 U	650 U
2,4-Dinitrotoluene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2,6-Dinitrotoluene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2-Chloronaphthalene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2-Chlorophenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2-Methylnaphthalene	NL	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
2-Methylphenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
2-Nitroaniline	NL	µg/kg	570 U	530 U	570 U	760 U	650 U
2-Nitrophenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
3,3'-Dichlorobenzidine	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
3-Nitroaniline	NL	µg/kg	570 U	530 U	570 U	760 U	650 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	570 U	530 U	570 U	760 U	650 U
4-Bromophenyl-phenylether	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
4-Chloro-3-methylphenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
4-Chloroaniline	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
4-Chlorophenyl-phenylether	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
4-Methylphenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
4-Nitroaniline	NL	µg/kg	570 U	530 U	570 U	760 U	650 U
4-Nitrophenol	NL	µg/kg	570 U	530 U	570 U	760 U	650 U
Acenaphthene	NL	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Acenaphthylene	NL	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Acetophenone	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Anthracene	845	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Atrazine	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Benzaldehyde	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Benzo(a)anthracene	1050	µg/kg	5.7 U	6.2	11	7.6 U	6.5 U
Benzo(a)pyrene	1450	µg/kg	5.7 U	13	14	7.6 U	7

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-47	LMR11-47	LMR11-47	LMR11-48	LMR11-48
		Field Sample ID	LMR11-47-096	LMR11-47-120	LMR11-47-144	LMR11-48-006	LMR11-48-024
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	72- 96	96- 120	120- 144	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6.7	9.7	14	7.6 U	6.5 U
Benzo(g,h,i)perylene	NL	µg/kg	5.7 U	5.3 U	6.6	7.6 U	6.5 U
Benzo(k)fluoranthene	NL	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Bis(2-chloroethoxy)methane	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Bis(2-chloroethyl)ether	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Butylbenzylphthalate	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Caprolactam	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Carbazole	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Chrysene	1290	µg/kg	5.7 U	7.5	12	7.6 U	8.3
Dibenzo(a,h)anthracene	NL	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Dibenzofuran	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Diethylphthalate	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Dimethylphthalate	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Di-n-butylphthalate	NL	µg/kg	290 U	270 U	300 U	500	330 U
Di-n-octylphthalate	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Fluoranthene	2230	µg/kg	8	15	21	8.8	15
Fluorene	536	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Hexachlorobenzene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Hexachlorobutadiene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Hexachlorocyclopentadiene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Hexachloroethane	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.7 U	5.3 U	5.7 U	7.6 U	6.5 U
Isophorone	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Naphthalene	561	µg/kg	5.7 U	5.3 U	7	7.6 U	6.5 U
Nitrobenzene	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
N-Nitroso-di-n-propylamine	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
N-Nitrosodiphenylamine	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Pentachlorophenol	NL	µg/kg	12 U	11 U	12 U	15 U	13 U
Phenanthrene	1170	µg/kg	5.7 U	11	14	7.6 U	12
Phenol	NL	µg/kg	290 U	270 U	300 U	390 U	330 U
Pyrene	1520	µg/kg	9.6	14	22	11	16
Total PAH 17	22800	µg/kg	64.2	102.9	144.4	76.8	97.3
TOC	NL	mg/kg	29,300	31,000	37,800	30,000	39,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-48	LMR11-48	LMR11-48	LMR11-49	LMR11-49
		Field Sample ID	LMR11-48-024FS	LMR11-48-048	LMR11-48-061	LMR11-49-006	LMR11-49-024
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 61	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,4,5-Trichlorophenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,4,6-Trichlorophenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,4-Dichlorophenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,4-Dimethylphenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,4-Dinitrophenol	NL	µg/kg	650 U	610 U	570 U	620 UJ	600 UJ
2,4-Dinitrotoluene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2,6-Dinitrotoluene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2-Chloronaphthalene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2-Chlorophenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2-Methylnaphthalene	NL	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
2-Methylphenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
2-Nitroaniline	NL	µg/kg	650 U	610 U	570 U	620 UJ	600 UJ
2-Nitrophenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
3-Nitroaniline	NL	µg/kg	650 U	610 U	570 U	620 UJ	600 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	650 U	610 U	570 U	620 UJ	600 UJ
4-Bromophenyl-phenylether	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
4-Chloro-3-methylphenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
4-Chloroaniline	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
4-Methylphenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
4-Nitroaniline	NL	µg/kg	650 U	610 U	570 U	620 UJ	600 UJ
4-Nitrophenol	NL	µg/kg	650 U	610 U	570 U	620 UJ	600 UJ
Acenaphthene	NL	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Acenaphthylene	NL	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Acetophenone	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Anthracene	845	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Atrazine	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Benzaldehyde	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Benzo(a)anthracene	1050	µg/kg	7.7	6.1 U	9.9	6.2 UJ	6 UJ
Benzo(a)pyrene	1450	µg/kg	9.5	6.1 U	7.6	11 J	6 UJ

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-48	LMR11-48	LMR11-48	LMR11-49	LMR11-49
		Field Sample ID	LMR11-48-024FS	LMR11-48-048	LMR11-48-061	LMR11-49-006	LMR11-49-024
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 61	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	8.4	6.1 U	9.4	6.9 J	7.7 J
Benzo(g,h,i)perylene	NL	µg/kg	6.5 U	6.1 U	6.8	6.2 UJ	6 UJ
Benzo(k)fluoranthene	NL	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Butylbenzylphthalate	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Caprolactam	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Carbazole	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Chrysene	1290	µg/kg	13	7.1	12	6.2 UJ	6.3 J
Dibenzo(a,h)anthracene	NL	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Dibenzofuran	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Diethylphthalate	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Dimethylphthalate	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Di-n-butylphthalate	NL	µg/kg	330 U	310 U	210 J	320 UJ	310 UJ
Di-n-octylphthalate	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Fluoranthene	2230	µg/kg	21	11	14	7.8 J	12 J
Fluorene	536	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Hexachlorobenzene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Hexachlorobutadiene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Hexachlorocyclopentadiene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Hexachloroethane	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.5 U	6.1 U	6.9	6.2 UJ	6 UJ
Isophorone	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Naphthalene	561	µg/kg	6.5 U	6.1 U	5.7 U	6.2 UJ	6 UJ
Nitrobenzene	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
N-Nitrosodiphenylamine	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Pentachlorophenol	NL	µg/kg	13 U	12 U	13	13 UJ	12 UJ
Phenanthrene	1170	µg/kg	14	6.6	9.3	6.2 UJ	8.8 J
Phenol	NL	µg/kg	330 U	310 U	290 U	320 UJ	310 UJ
Pyrene	1520	µg/kg	21	12	16	9.6 J	13 J
Total PAH 17	22800	µg/kg	127.1	76.35	114.7	75.6	83.8
TOC	NL	mg/kg	26,600	26,400	30,300	23,800	21,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-49	LMR11-49	LMR11-49	LMR11-49	LMR11-50
		Field Sample ID	LMR11-49-048	LMR11-49-072	LMR11-49-096	LMR11-49-115	LMR11-50-006
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 115	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,4,5-Trichlorophenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,4,6-Trichlorophenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,4-Dichlorophenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,4-Dimethylphenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,4-Dinitrophenol	NL	µg/kg	520 UJ	500 UJ	480 UJ	450 UJ	720 U
2,4-Dinitrotoluene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2,6-Dinitrotoluene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2-Chloronaphthalene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2-Chlorophenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2-Methylnaphthalene	NL	µg/kg	5.2 UJ	5 UJ	7.9 J	4.5 UJ	7.2 U
2-Methylphenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
2-Nitroaniline	NL	µg/kg	520 UJ	500 UJ	480 UJ	450 UJ	720 U
2-Nitrophenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
3,3'-Dichlorobenzidine	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
3-Nitroaniline	NL	µg/kg	520 UJ	500 UJ	480 UJ	450 UJ	720 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	520 UJ	500 UJ	480 UJ	450 UJ	720 U
4-Bromophenyl-phenylether	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
4-Chloro-3-methylphenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
4-Chloroaniline	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
4-Chlorophenyl-phenylether	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
4-Methylphenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
4-Nitroaniline	NL	µg/kg	520 UJ	500 UJ	480 UJ	450 UJ	720 U
4-Nitrophenol	NL	µg/kg	520 UJ	500 UJ	480 UJ	450 UJ	720 U
Acenaphthene	NL	µg/kg	5.2 UJ	5 UJ	4.8 UJ	4.5 UJ	7.2 U
Acenaphthylene	NL	µg/kg	5.2 UJ	5 UJ	10 J	4.5 UJ	7.2 U
Acetophenone	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Anthracene	845	µg/kg	5.2 UJ	5 UJ	25 J	4.5 UJ	7.2 U
Atrazine	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Benzaldehyde	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Benzo(a)anthracene	1050	µg/kg	5.2 UJ	5.3 J	120 J	7.9 J	28
Benzo(a)pyrene	1450	µg/kg	5.2 UJ	5 UJ	100 J	8.8 J	49

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-49	LMR11-49	LMR11-49	LMR11-49	LMR11-50
		Field Sample ID	LMR11-49-048	LMR11-49-072	LMR11-49-096	LMR11-49-115	LMR11-50-006
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 115	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5.2 UJ	7.4 J	110 J	10 J	62
Benzo(g,h,i)perylene	NL	µg/kg	5.2 UJ	5 UJ	57 J	4.5 UJ	38
Benzo(k)fluoranthene	NL	µg/kg	5.2 UJ	5 UJ	57 J	5.7 J	38
Bis(2-chloroethoxy)methane	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Bis(2-chloroethyl)ether	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Butylbenzylphthalate	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Caprolactam	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Carbazole	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Chrysene	1290	µg/kg	5.2 UJ	7 J	100 J	9.5 J	41
Dibenzo(a,h)anthracene	NL	µg/kg	5.2 UJ	5 UJ	16 J	4.5 UJ	8.7
Dibenzofuran	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Diethylphthalate	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Dimethylphthalate	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Di-n-butylphthalate	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Di-n-octylphthalate	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Fluoranthene	2230	µg/kg	5.2 UJ	11 J	180 J	17 J	72
Fluorene	536	µg/kg	5.2 UJ	5 UJ	7 J	4.5 UJ	7.2 U
Hexachlorobenzene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Hexachlorobutadiene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Hexachlorocyclopentadiene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Hexachloroethane	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.2 UJ	5 UJ	51 J	4.5 UJ	30
Isophorone	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Naphthalene	561	µg/kg	5.2 UJ	5 UJ	13 J	4.5 UJ	9
Nitrobenzene	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
N-Nitroso-di-n-propylamine	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
N-Nitrosodiphenylamine	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Pentachlorophenol	NL	µg/kg	11 UJ	10 UJ	9.8 UJ	9.2 UJ	15 UJ
Phenanthrene	1170	µg/kg	5.2 UJ	8 J	72 J	14 J	35
Phenol	NL	µg/kg	270 UJ	260 UJ	250 UJ	230 UJ	370 U
Pyrene	1520	µg/kg	6.3 J	12 J	190 J	21 J	65 J
Total PAH 17	22800	µg/kg	47.9	78.2	1,118	114.15	493.7
TOC	NL	mg/kg	26,500	29,600	19,600	26,900 J	34,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
		Field Sample ID	LMR11-50-006-DP	LMR11-50-024	LMR11-50-024-DP	LMR11-50-048	LMR11-50-048-DP
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,4,5-Trichlorophenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,4,6-Trichlorophenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,4-Dichlorophenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,4-Dimethylphenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,4-Dinitrophenol	NL	µg/kg	710 U	700 U	580 U	530 U	470 U
2,4-Dinitrotoluene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2,6-Dinitrotoluene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2-Chloronaphthalene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2-Chlorophenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2-Methylnaphthalene	NL	µg/kg	7.1 U	12	46	8.5	36
2-Methylphenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
2-Nitroaniline	NL	µg/kg	710 U	700 U	580 U	530 U	470 U
2-Nitrophenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
3,3'-Dichlorobenzidine	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
3-Nitroaniline	NL	µg/kg	710 U	700 U	580 U	530 U	470 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	710 U	700 U	580 U	530 U	470 U
4-Bromophenyl-phenylether	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
4-Chloro-3-methylphenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
4-Chloroaniline	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
4-Chlorophenyl-phenylether	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
4-Methylphenol	NL	µg/kg	360 U	360 U	300 U	270 U	53 J
4-Nitroaniline	NL	µg/kg	710 U	700 U	580 U	530 U	470 U
4-Nitrophenol	NL	µg/kg	710 U	700 U	580 U	530 U	470 U
Acenaphthene	NL	µg/kg	7.1 U	7 U	46	7.2	4.7 U
Acenaphthylene	NL	µg/kg	7.1 U	7 U	9.3	5.3 U	15
Acetophenone	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Anthracene	845	µg/kg	27	22	70	19	54
Atrazine	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Benzaldehyde	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Benzo(a)anthracene	1050	µg/kg	93	91	330	66	160
Benzo(a)pyrene	1450	µg/kg	97	95	280	67	140

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
		Field Sample ID	LMR11-50-006-DP	LMR11-50-024	LMR11-50-024-DP	LMR11-50-048	LMR11-50-048-DP
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	130	140	440	81	190
Benzo(g,h,i)perylene	NL	µg/kg	70	77	180	45	83
Benzo(k)fluoranthene	NL	µg/kg	77	66	150	48	71
Bis(2-chloroethoxy)methane	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Bis(2-chloroethyl)ether	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 J	130 J	130 J	74 J	220 J
Butylbenzylphthalate	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Caprolactam	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Carbazole	NL	µg/kg	360 U	360 U	88 J	270 U	240 U
Chrysene	1290	µg/kg	110	120	340	69	180
Dibenzo(a,h)anthracene	NL	µg/kg	20	19	50	12	23
Dibenzofuran	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Diethylphthalate	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Dimethylphthalate	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Di-n-butylphthalate	NL	µg/kg	360 U	360 U	82 J	270 U	240 U
Di-n-octylphthalate	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Fluoranthene	2230	µg/kg	190	210	940	140	320
Fluorene	536	µg/kg	10	11	57	9.9	26
Hexachlorobenzene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Hexachlorobutadiene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Hexachlorocyclopentadiene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Hexachloroethane	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	58	66	170	52	76
Isophorone	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Naphthalene	561	µg/kg	7.4	14	50	10	23
Nitrobenzene	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
N-Nitroso-di-n-propylamine	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
N-Nitrosodiphenylamine	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Pentachlorophenol	NL	µg/kg	14 UJ	14 UJ	12 U	11 UJ	9.6 UJ
Phenanthrene	1170	µg/kg	110	110	440	96	220
Phenol	NL	µg/kg	360 U	360 U	300 U	270 U	240 U
Pyrene	1520	µg/kg	160	180	790	130	270
Total PAH 17	22800	µg/kg	1,170	1,240	4,388	863.25	1,889
TOC	NL	mg/kg	37,400	33,700	28,700	25,700	17,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
		Field Sample ID	LMR11-50-072	LMR11-50-096	LMR11-50-120	LMR11-50-144	LMR11-50-175
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	120- 144	144- 175
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,4,5-Trichlorophenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,4,6-Trichlorophenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,4-Dichlorophenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,4-Dimethylphenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,4-Dinitrophenol	NL	µg/kg	470 U	510 U	540 U	550 U	510 U
2,4-Dinitrotoluene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2,6-Dinitrotoluene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2-Chloronaphthalene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2-Chlorophenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2-Methylnaphthalene	NL	µg/kg	580	660	690	6.2	220
2-Methylphenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
2-Nitroaniline	NL	µg/kg	470 U	510 U	540 U	550 U	510 U
2-Nitrophenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
3,3'-Dichlorobenzidine	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
3-Nitroaniline	NL	µg/kg	470 U	510 U	540 U	550 U	510 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	470 U	510 U	540 U	550 U	510 U
4-Bromophenyl-phenylether	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
4-Chloro-3-methylphenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
4-Chloroaniline	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
4-Chlorophenyl-phenylether	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
4-Methylphenol	NL	µg/kg	240 U	260 U	480	280 U	850
4-Nitroaniline	NL	µg/kg	470 U	510 U	540 U	550 U	510 U
4-Nitrophenol	NL	µg/kg	470 U	510 U	540 U	550 U	510 U
Acenaphthene	NL	µg/kg	40	190	5.4 U	5.5 U	26
Acenaphthylene	NL	µg/kg	4.7 U	5.1 U	5.4 U	5.5 U	11
Acetophenone	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Anthracene	845	µg/kg	70	170	43	6.8	97
Atrazine	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Benzaldehyde	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Benzo(a)anthracene	1050	µg/kg	170	670	77	14	180
Benzo(a)pyrene	1450	µg/kg	120	540	46	16	140

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
		Field Sample ID	LMR11-50-072	LMR11-50-096	LMR11-50-120	LMR11-50-144	LMR11-50-175
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	120- 144	144- 175
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	170	710	72	13	210
Benzo(g,h,i)perylene	NL	µg/kg	68	360	41	6.9	92
Benzo(k)fluoranthene	NL	µg/kg	75	330	51	9	72
Bis(2-chloroethoxy)methane	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Bis(2-chloroethyl)ether	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	180 J	200 J	130 J	280 U	190 J
Butylbenzylphthalate	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Caprolactam	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Carbazole	NL	µg/kg	85 J	200 J	280 U	280 U	260 U
Chrysene	1290	µg/kg	190	640	97	14	220
Dibenzo(a,h)anthracene	NL	µg/kg	20	80	10	5.5 U	33
Dibenzofuran	NL	µg/kg	160 J	230 J	55 J	280 U	83 J
Diethylphthalate	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Dimethylphthalate	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Di-n-butylphthalate	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Di-n-octylphthalate	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Fluoranthene	2230	µg/kg	690	1,700	180	29	450
Fluorene	536	µg/kg	87	190	69	5.5 U	48
Hexachlorobenzene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Hexachlorobutadiene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Hexachlorocyclopentadiene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Hexachloroethane	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	68	340	33	6.1	80
Isophorone	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Naphthalene	561	µg/kg	350	570	100	5.7	170
Nitrobenzene	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
N-Nitroso-di-n-propylamine	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
N-Nitrosodiphenylamine	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Pentachlorophenol	NL	µg/kg	9.5 UJ	10 UJ	11 UJ	11 UJ	10 UJ
Phenanthrene	1170	µg/kg	930	1,600	310	28	430
Phenol	NL	µg/kg	240 U	260 U	280 U	280 U	260 U
Pyrene	1520	µg/kg	400	1200	160	28	380
Total PAH 17	22800	µg/kg	4,030	9,953	1,984	193.7	2,859
TOC	NL	mg/kg	36,200	48,500	32,200	54,500	39,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-51	LMR11-51	LMR11-51	LMR11-51	LMR11-52
		Field Sample ID	LMR11-51-006	LMR11-51-024	LMR11-51-048	LMR11-51-075	LMR11-52-006
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 75	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,4,5-Trichlorophenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,4,6-Trichlorophenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,4-Dichlorophenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,4-Dimethylphenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,4-Dinitrophenol	NL	µg/kg	380 UJ	380 UJ	340 UJ	330 UJ	630 UJ
2,4-Dinitrotoluene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2,6-Dinitrotoluene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2-Chloronaphthalene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2-Chlorophenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2-Methylnaphthalene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
2-Methylphenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
2-Nitroaniline	NL	µg/kg	380 UJ	380 UJ	340 UJ	330 UJ	630 UJ
2-Nitrophenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
3-Nitroaniline	NL	µg/kg	380 UJ	380 UJ	340 UJ	330 UJ	630 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	380 UJ	380 UJ	340 UJ	330 UJ	630 UJ
4-Bromophenyl-phenylether	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
4-Chloro-3-methylphenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
4-Chloroaniline	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
4-Methylphenol	NL	µg/kg	200 UJ	200 UJ	130 J	90 J	330 UJ
4-Nitroaniline	NL	µg/kg	380 UJ	380 UJ	340 UJ	330 UJ	630 UJ
4-Nitrophenol	NL	µg/kg	380 UJ	380 UJ	340 UJ	330 UJ	630 UJ
Acenaphthene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Acenaphthylene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Acetophenone	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Anthracene	845	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Atrazine	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Benzaldehyde	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Benzo(a)anthracene	1050	µg/kg	3.8 UJ	3.8 UJ	3.7 J	3.3 UJ	11 J
Benzo(a)pyrene	1450	µg/kg	3.8 UJ	3.8 UJ	5 J	3.3 UJ	15 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-51	LMR11-51	LMR11-51	LMR11-51	LMR11-52
		Field Sample ID	LMR11-51-006	LMR11-51-024	LMR11-51-048	LMR11-51-075	LMR11-52-006
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 75	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	3.8 UJ	3.8 UJ	6.6 J	4.8 J	14 J
Benzo(g,h,i)perylene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Benzo(k)fluoranthene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Butylbenzylphthalate	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Caprolactam	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Carbazole	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Chrysene	1290	µg/kg	3.8 UJ	3.8 UJ	4.2 J	4.2 J	11 J
Dibenzo(a,h)anthracene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Dibenzofuran	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Diethylphthalate	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Dimethylphthalate	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Di-n-butylphthalate	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Di-n-octylphthalate	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Fluoranthene	2230	µg/kg	3.8 UJ	6.9 J	8.8 J	7.1 J	24 J
Fluorene	536	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Hexachlorobenzene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Hexachlorobutadiene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Hexachlorocyclopentadiene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Hexachloroethane	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Isophorone	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Naphthalene	561	µg/kg	3.8 UJ	3.8 UJ	3.4 UJ	3.3 UJ	6.3 UJ
Nitrobenzene	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
N-Nitrosodiphenylamine	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Pentachlorophenol	NL	µg/kg	7.7 UJ	7.7 UJ	6.8 UJ	6.6 UJ	13 UJ
Phenanthrene	1170	µg/kg	3.8 UJ	5.7 J	6.3 J	5.6 J	14 J
Phenol	NL	µg/kg	200 UJ	200 UJ	170 UJ	170 UJ	330 UJ
Pyrene	1520	µg/kg	3.8 UJ	6.2 J	7.9 J	7.7 J	22 J
Total PAH 17	22800	µg/kg	32.3	45.4	59.5	49.2	142.5
TOC	NL	mg/kg	21,400	19,400	21,100	18,200	18,300

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-52	LMR11-52	LMR11-52	LMR11-52	LMR11-53
		Field Sample ID	LMR11-52-024	LMR11-52-048	LMR11-52-048FS	LMR11-52-072	LMR11-53-006
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/7/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,4,5-Trichlorophenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,4,6-Trichlorophenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,4-Dichlorophenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,4-Dimethylphenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,4-Dinitrophenol	NL	µg/kg	580 UJ	560 UJ	580 UJ	550 UJ	700 UJ
2,4-Dinitrotoluene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2,6-Dinitrotoluene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2-Chloronaphthalene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2-Chlorophenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2-Methylnaphthalene	NL	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
2-Methylphenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
2-Nitroaniline	NL	µg/kg	580 UJ	560 UJ	580 UJ	550 UJ	700 UJ
2-Nitrophenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
3-Nitroaniline	NL	µg/kg	580 UJ	560 UJ	580 UJ	550 UJ	700 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	580 UJ	560 UJ	580 UJ	550 UJ	700 UJ
4-Bromophenyl-phenylether	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
4-Chloro-3-methylphenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
4-Chloroaniline	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
4-Methylphenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
4-Nitroaniline	NL	µg/kg	580 UJ	560 UJ	580 UJ	550 UJ	700 UJ
4-Nitrophenol	NL	µg/kg	580 UJ	560 UJ	580 UJ	550 UJ	700 UJ
Acenaphthene	NL	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
Acenaphthylene	NL	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
Acetophenone	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Anthracene	845	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
Atrazine	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Benzaldehyde	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Benzo(a)anthracene	1050	µg/kg	7.9 J	28 J	8.4 J	10 J	13 J
Benzo(a)pyrene	1450	µg/kg	13 J	29 J	14 J	15 J	18 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-52	LMR11-52	LMR11-52	LMR11-52	LMR11-53
		Field Sample ID	LMR11-52-024	LMR11-52-048	LMR11-52-048FS	LMR11-52-072	LMR11-53-006
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/7/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	12 J	24 J	12 J	13 J	26 J
Benzo(g,h,i)perylene	NL	µg/kg	6.2 J	11 J	5.9 J	6.7 J	12 J
Benzo(k)fluoranthene	NL	µg/kg	5.8 UJ	17 J	5.9 J	6.6 J	12 J
Bis(2-chloroethoxy)methane	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Butylbenzylphthalate	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Caprolactam	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Carbazole	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Chrysene	1290	µg/kg	8.3 J	24 J	9.6 J	10 J	17 J
Dibenzo(a,h)anthracene	NL	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
Dibenzofuran	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Diethylphthalate	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Dimethylphthalate	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Di-n-butylphthalate	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Di-n-octylphthalate	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Fluoranthene	2230	µg/kg	13 J	39 J	18 J	18 J	33 J
Fluorene	536	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
Hexachlorobenzene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Hexachlorobutadiene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Hexachlorocyclopentadiene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Hexachloroethane	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.8 UJ	11 J	5.8 UJ	5.6 J	10 J
Isophorone	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Naphthalene	561	µg/kg	5.8 UJ	5.6 UJ	5.8 UJ	5.5 UJ	7 UJ
Nitrobenzene	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
N-Nitrosodiphenylamine	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Pentachlorophenol	NL	µg/kg	12 UJ	11 UJ	12 UJ	11 UJ	14 UJ
Phenanthrene	1170	µg/kg	9.7 J	7.5 J	12 J	11 J	15 J
Phenol	NL	µg/kg	300 UJ	290 UJ	300 UJ	280 UJ	360 UJ
Pyrene	1520	µg/kg	15 J	42 J	17 J	19 J	29 J
Total PAH 17	22800	µg/kg	111.2	252.1	126	134.15	209.5
TOC	NL	mg/kg	27,700	22,900	22,500	20,800	34,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-53	LMR11-53	LMR11-53	LMR11-54	LMR11-54
		Field Sample ID	LMR11-53-024	LMR11-53-048	LMR11-53-073	LMR11-54-006	LMR11-54-006-DP
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 73	0- 6	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,4,5-Trichlorophenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,4,6-Trichlorophenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,4-Dichlorophenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,4-Dimethylphenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,4-Dinitrophenol	NL	µg/kg	490 UJ	480 UJ	460 UJ	600 UJ	590 UJ
2,4-Dinitrotoluene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2,6-Dinitrotoluene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2-Chloronaphthalene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2-Chlorophenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2-Methylnaphthalene	NL	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
2-Methylphenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
2-Nitroaniline	NL	µg/kg	490 UJ	480 UJ	460 UJ	600 UJ	590 UJ
2-Nitrophenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
3-Nitroaniline	NL	µg/kg	490 UJ	480 UJ	460 UJ	600 UJ	590 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	490 UJ	480 UJ	460 UJ	600 UJ	590 UJ
4-Bromophenyl-phenylether	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
4-Chloro-3-methylphenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
4-Chloroaniline	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
4-Methylphenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
4-Nitroaniline	NL	µg/kg	490 UJ	480 UJ	460 UJ	600 UJ	590 UJ
4-Nitrophenol	NL	µg/kg	490 UJ	480 UJ	460 UJ	600 UJ	590 UJ
Acenaphthene	NL	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
Acenaphthylene	NL	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
Acetophenone	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Anthracene	845	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
Atrazine	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Benzaldehyde	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Benzo(a)anthracene	1050	µg/kg	4.9 UJ	4.8 UJ	8.7 J	6 UJ	7.5 J
Benzo(a)pyrene	1450	µg/kg	4.9 UJ	4.8 UJ	11 J	6 UJ	9.7 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-53	LMR11-53	LMR11-53	LMR11-54	LMR11-54
		Field Sample ID	LMR11-53-024	LMR11-53-048	LMR11-53-073	LMR11-54-006	LMR11-54-006-DP
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 73	0- 6	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	4.9 UJ	4.8 UJ	12 J	6 UJ	30 J
Benzo(g,h,i)perylene	NL	µg/kg	4.9 UJ	4.8 UJ	5.5 J	6 UJ	6.8 J
Benzo(k)fluoranthene	NL	µg/kg	4.9 UJ	4.8 UJ	7.9 J	6 UJ	16 J
Bis(2-chloroethoxy)methane	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Butylbenzylphthalate	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Caprolactam	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Carbazole	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Chrysene	1290	µg/kg	4.9 UJ	4.8 UJ	12 J	6 UJ	17 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
Dibenzofuran	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Diethylphthalate	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Dimethylphthalate	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Di-n-butylphthalate	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Di-n-octylphthalate	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Fluoranthene	2230	µg/kg	8.7 J	4.8 UJ	20 J	8 J	12 J
Fluorene	536	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
Hexachlorobenzene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Hexachlorobutadiene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Hexachlorocyclopentadiene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Hexachloroethane	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.9 UJ	4.8 UJ	4.7 J	6 UJ	6.7 J
Isophorone	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Naphthalene	561	µg/kg	4.9 UJ	4.8 UJ	4.6 UJ	6 UJ	5.9 UJ
Nitrobenzene	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
N-Nitrosodiphenylamine	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Pentachlorophenol	NL	µg/kg	10 UJ	9.7 UJ	9.4 UJ	12 UJ	12 UJ
Phenanthrene	1170	µg/kg	7.8 J	4.8 UJ	16 J	6 UJ	5.9 UJ
Phenol	NL	µg/kg	250 UJ	250 UJ	240 UJ	310 UJ	300 UJ
Pyrene	1520	µg/kg	9.1 J	5.2 J	20 J	9 J	14 J
Total PAH 17	22800	µg/kg	59.9	43.6	133.9	62	143.3
TOC	NL	mg/kg	28,200	23,400	19,800	16,600	22,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-54	LMR11-54	LMR11-54	LMR11-54	LMR11-54
		Field Sample ID	LMR11-54-024	LMR11-54-024-DP	LMR11-54-048	LMR11-54-048-DP	LMR11-54-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	6- 24	24- 48	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,4,5-Trichlorophenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,4,6-Trichlorophenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,4-Dichlorophenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,4-Dimethylphenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,4-Dinitrophenol	NL	µg/kg	490 UJ	460 UJ	560 UJ	500 UJ	530 UJ
2,4-Dinitrotoluene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2,6-Dinitrotoluene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2-Chloronaphthalene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2-Chlorophenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2-Methylnaphthalene	NL	µg/kg	4.9 UJ	4.6 UJ	7.2 J	5 UJ	13 J
2-Methylphenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
2-Nitroaniline	NL	µg/kg	490 UJ	460 UJ	560 UJ	500 UJ	530 UJ
2-Nitrophenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
3-Nitroaniline	NL	µg/kg	490 UJ	460 UJ	560 UJ	500 UJ	530 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	490 UJ	460 UJ	560 UJ	500 UJ	530 UJ
4-Bromophenyl-phenylether	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
4-Chloro-3-methylphenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
4-Chloroaniline	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
4-Methylphenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
4-Nitroaniline	NL	µg/kg	490 UJ	460 UJ	560 UJ	500 UJ	530 UJ
4-Nitrophenol	NL	µg/kg	490 UJ	460 UJ	560 UJ	500 UJ	530 UJ
Acenaphthene	NL	µg/kg	4.9 UJ	4.6 UJ	5.6 UJ	5 UJ	22 J
Acenaphthylene	NL	µg/kg	4.9 UJ	4.6 UJ	5.6 UJ	7.6 J	41 J
Acetophenone	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Anthracene	845	µg/kg	4.9 UJ	4.6 UJ	18 J	14 J	76 J
Atrazine	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Benzaldehyde	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Benzo(a)anthracene	1050	µg/kg	8.7 J	6.5 J	52 J	79 J	290 J
Benzo(a)pyrene	1450	µg/kg	18 J	7 J	42 J	74 J	240 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-54	LMR11-54	LMR11-54	LMR11-54	LMR11-54
		Field Sample ID	LMR11-54-024	LMR11-54-024-DP	LMR11-54-048	LMR11-54-048-DP	LMR11-54-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	6- 24	24- 48	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	23 J	9.2 J	55 J	84 J	320 J
Benzo(g,h,i)perylene	NL	µg/kg	6.8 J	4.6 UJ	23 J	40 J	110 J
Benzo(k)fluoranthene	NL	µg/kg	8.8 J	5.5 J	21 J	42 J	110 J
Bis(2-chloroethoxy)methane	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Butylbenzylphthalate	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Caprolactam	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Carbazole	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Chrysene	1290	µg/kg	12 J	8.1 J	64 J	71 J	270 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.9 UJ	4.6 UJ	8.7 J	8.9 J	39 J
Dibenzofuran	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Diethylphthalate	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Dimethylphthalate	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Di-n-butylphthalate	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Di-n-octylphthalate	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Fluoranthene	2230	µg/kg	14 J	17 J	120 J	110 J	370 J
Fluorene	536	µg/kg	4.9 UJ	4.6 UJ	13 J	5 UJ	23 J
Hexachlorobenzene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Hexachlorobutadiene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Hexachlorocyclopentadiene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Hexachloroethane	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.5 J	4.6 UJ	20 J	36 J	110 J
Isophorone	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Naphthalene	561	µg/kg	4.9 UJ	4.6 UJ	5.6 UJ	5 UJ	34 J
Nitrobenzene	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
N-Nitrosodiphenylamine	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Pentachlorophenol	NL	µg/kg	9.9 UJ	9.3 UJ	11 UJ	10 UJ	11 UJ
Phenanthrene	1170	µg/kg	7.5 J	12 J	74 J	32 J	270 J
Phenol	NL	µg/kg	250 UJ	240 UJ	290 UJ	260 UJ	270 UJ
Pyrene	1520	µg/kg	17 J	18 J	140 J	120 J	380 J
Total PAH 17	22800	µg/kg	139.45	104	666.3	728.5	2,718
TOC	NL	mg/kg	17,500 J	33,400 J	18,100	20,800	30,700

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-54	LMR11-55	LMR11-55	LMR11-55	LMR11-55
		Field Sample ID	LMR11-54-086	LMR11-55-006	LMR11-55-006-DP	LMR11-55-030	LMR11-55-030-DP
		Sample Date	8/8/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	72- 86	0- 6	0- 6	6- 30	6- 30
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,4,5-Trichlorophenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,4,6-Trichlorophenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,4-Dichlorophenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,4-Dimethylphenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,4-Dinitrophenol	NL	µg/kg	530 UJ	430 UJ	400 UJ	300 UJ	280 UJ
2,4-Dinitrotoluene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2,6-Dinitrotoluene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2-Chloronaphthalene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2-Chlorophenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2-Methylnaphthalene	NL	µg/kg	7.4 J	4.3 UJ	4 UJ	3.5 J	2.8 UJ
2-Methylphenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
2-Nitroaniline	NL	µg/kg	530 UJ	430 UJ	400 UJ	300 UJ	280 UJ
2-Nitrophenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
3-Nitroaniline	NL	µg/kg	530 UJ	430 UJ	400 UJ	300 UJ	280 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	530 UJ	430 UJ	400 UJ	300 UJ	280 UJ
4-Bromophenyl-phenylether	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
4-Chloro-3-methylphenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
4-Chloroaniline	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
4-Methylphenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
4-Nitroaniline	NL	µg/kg	530 UJ	430 UJ	400 UJ	300 UJ	280 UJ
4-Nitrophenol	NL	µg/kg	530 UJ	430 UJ	400 UJ	300 UJ	280 UJ
Acenaphthene	NL	µg/kg	6.4 J	4.3 UJ	4 UJ	5.6 J	2.8 UJ
Acenaphthylene	NL	µg/kg	6.6 J	4.3 UJ	4 UJ	3 UJ	2.8 UJ
Acetophenone	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	70 J
Anthracene	845	µg/kg	8.7 J	4.3 UJ	4 UJ	7.3 J	2.8 UJ
Atrazine	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Benzaldehyde	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Benzo(a)anthracene	1050	µg/kg	11 J	4.3 UJ	4 UJ	21 J	8.5 J
Benzo(a)pyrene	1450	µg/kg	16 J	4.3 UJ	4 UJ	20 J	8.6 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-54	LMR11-55	LMR11-55	LMR11-55	LMR11-55
		Field Sample ID	LMR11-54-086	LMR11-55-006	LMR11-55-006-DP	LMR11-55-030	LMR11-55-030-DP
		Sample Date	8/8/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	72- 86	0- 6	0- 6	6- 30	6- 30
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	19 J	4.3 UJ	4.3 J	25 J	12 J
Benzo(g,h,i)perylene	NL	µg/kg	9.7 J	4.3 UJ	4 UJ	11 J	5.6 J
Benzo(k)fluoranthene	NL	µg/kg	6.9 J	4.3 UJ	4 UJ	9.8 J	4.9 J
Bis(2-chloroethoxy)methane	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Butylbenzylphthalate	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Caprolactam	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Carbazole	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Chrysene	1290	µg/kg	15 J	4.3 UJ	4 UJ	18 J	8.3 J
Dibenzo(a,h)anthracene	NL	µg/kg	5.3 UJ	4.3 UJ	4 UJ	3.4 J	2.8 UJ
Dibenzofuran	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Diethylphthalate	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Dimethylphthalate	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Di-n-butylphthalate	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	34 J
Di-n-octylphthalate	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Fluoranthene	2230	µg/kg	29 J	11 J	6.8 J	53 J	17 J
Fluorene	536	µg/kg	9.9 J	4.3 UJ	4 UJ	4.6 J	2.8 UJ
Hexachlorobenzene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Hexachlorobutadiene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Hexachlorocyclopentadiene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Hexachloroethane	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	8.1 J	4.3 UJ	4 UJ	10 J	5 J
Isophorone	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Naphthalene	561	µg/kg	6.9 J	4.3 UJ	4 UJ	4.1 J	2.8 UJ
Nitrobenzene	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
N-Nitrosodiphenylamine	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Pentachlorophenol	NL	µg/kg	11 UJ	8.7 UJ	8 UJ	6.1 UJ	5.6 UJ
Phenanthrene	1170	µg/kg	26 J	9.3 J	4.2 J	33 J	9.1 J
Phenol	NL	µg/kg	270 UJ	220 UJ	200 UJ	150 UJ	140 UJ
Pyrene	1520	µg/kg	30 J	8.2 J	5.5 J	29 J	13 J
Total PAH 17	22800	µg/kg	219.25	58.6	46.8	259.8	101.8
TOC	NL	mg/kg	28,600	26,700	26,200	20,600	23,200

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-56	LMR11-56	LMR11-56	LMR11-57	LMR11-57
		Field Sample ID	LMR11-56-006	LMR11-56-024	LMR11-56-036	LMR11-57-006	LMR11-57-024
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 36	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,4,5-Trichlorophenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,4,6-Trichlorophenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,4-Dichlorophenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,4-Dimethylphenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,4-Dinitrophenol	NL	µg/kg	380 UJ	310 UJ	330 UJ	400 UJ	230 UJ
2,4-Dinitrotoluene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2,6-Dinitrotoluene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2-Chloronaphthalene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2-Chlorophenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2-Methylnaphthalene	NL	µg/kg	3.8 UJ	3.1 UJ	3.7 J	4 UJ	2.3 UJ
2-Methylphenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
2-Nitroaniline	NL	µg/kg	380 UJ	310 UJ	330 UJ	400 UJ	230 UJ
2-Nitrophenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
3-Nitroaniline	NL	µg/kg	380 UJ	310 UJ	330 UJ	400 UJ	230 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	380 UJ	310 UJ	330 UJ	400 UJ	230 UJ
4-Bromophenyl-phenylether	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
4-Chloro-3-methylphenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
4-Chloroaniline	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
4-Methylphenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
4-Nitroaniline	NL	µg/kg	380 UJ	310 UJ	330 UJ	400 UJ	230 UJ
4-Nitrophenol	NL	µg/kg	380 UJ	310 UJ	330 UJ	400 UJ	230 UJ
Acenaphthene	NL	µg/kg	3.8 UJ	3.1 UJ	3.3 UJ	4 UJ	2.3 UJ
Acenaphthylene	NL	µg/kg	3.8 UJ	3.1 UJ	3.3 UJ	16 J	5.7 J
Acetophenone	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Anthracene	845	µg/kg	3.8 UJ	5 J	3.8 J	4 UJ	2.3 UJ
Atrazine	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Benzaldehyde	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Benzo(a)anthracene	1050	µg/kg	3.6 J	13 J	9.6 J	4.7 J	2.3 UJ
Benzo(a)pyrene	1450	µg/kg	4.4 J	14 J	11 J	5.4 J	2.3 UJ

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-56	LMR11-56	LMR11-56	LMR11-57	LMR11-57
		Field Sample ID	LMR11-56-006	LMR11-56-024	LMR11-56-036	LMR11-57-006	LMR11-57-024
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 36	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	6.7 J	18 J	15 J	7.1 J	2.3 UJ
Benzo(g,h,i)perylene	NL	µg/kg	3.8 UJ	8 J	6.9 J	4 UJ	2.3 UJ
Benzo(k)fluoranthene	NL	µg/kg	3.8 UJ	6.3 J	6.2 J	4 UJ	2.3 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Butylbenzylphthalate	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Caprolactam	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Carbazole	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Chrysene	1290	µg/kg	4.4 J	14 J	11 J	5.8 J	2.3 UJ
Dibenzo(a,h)anthracene	NL	µg/kg	3.8 UJ	3.1 UJ	3.3 UJ	4 UJ	2.3 UJ
Dibenzofuran	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Diethylphthalate	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Dimethylphthalate	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Di-n-butylphthalate	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Di-n-octylphthalate	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Fluoranthene	2230	µg/kg	10 J	32 J	26 J	11 J	3.8 J
Fluorene	536	µg/kg	3.8 UJ	3.1 UJ	3.3 UJ	4 UJ	2.3 UJ
Hexachlorobenzene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Hexachlorobutadiene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Hexachlorocyclopentadiene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Hexachloroethane	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.8 UJ	7.6 J	6.3 J	4 UJ	2.3 UJ
Isophorone	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Naphthalene	561	µg/kg	3.8 UJ	3.1 UJ	4.7 J	4 UJ	2.3 UJ
Nitrobenzene	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
N-Nitrosodiphenylamine	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Pentachlorophenol	NL	µg/kg	7.6 UJ	6.4 UJ	6.7 UJ	8.1 UJ	4.7 UJ
Phenanthrene	1170	µg/kg	6.3 J	22 J	21 J	5.8 J	2.6 J
Phenol	NL	µg/kg	190 UJ	160 UJ	170 UJ	210 UJ	120 UJ
Pyrene	1520	µg/kg	7.4 J	19 J	19 J	8.5 J	3 J
Total PAH 17	22800	µg/kg	61.8	168.2	150.8	82.3	30.05
TOC	NL	mg/kg	21,700	19,700	23,200	29,200	6,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-57	LMR11-57	LMR11-58	LMR11-59	LMR11-59
		Field Sample ID	LMR11-57-048	LMR11-57-062	LMR11-58-010	LMR11-59-006	LMR11-59-024
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	24- 48	48- 62	0- 10	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,4,5-Trichlorophenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,4,6-Trichlorophenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,4-Dichlorophenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,4-Dimethylphenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,4-Dinitrophenol	NL	µg/kg	310 UJ	310 UJ	230 UJ	320 U	360 U
2,4-Dinitrotoluene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2,6-Dinitrotoluene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2-Chloronaphthalene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2-Chlorophenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2-Methylnaphthalene	NL	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	3.2 U	3.6 U
2-Methylphenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
2-Nitroaniline	NL	µg/kg	310 UJ	310 UJ	230 UJ	320 U	360 U
2-Nitrophenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
3,3'-Dichlorobenzidine	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
3-Nitroaniline	NL	µg/kg	310 UJ	310 UJ	230 UJ	320 U	360 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	310 UJ	310 UJ	230 UJ	320 U	360 U
4-Bromophenyl-phenylether	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
4-Chloro-3-methylphenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
4-Chloroaniline	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
4-Chlorophenyl-phenylether	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
4-Methylphenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
4-Nitroaniline	NL	µg/kg	310 UJ	310 UJ	230 UJ	320 U	360 U
4-Nitrophenol	NL	µg/kg	310 UJ	310 UJ	230 UJ	320 U	360 U
Acenaphthene	NL	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	3.2 U	3.6 U
Acenaphthylene	NL	µg/kg	5.2 J	3.1 UJ	2.3 UJ	3.2 U	3.6 U
Acetophenone	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Anthracene	845	µg/kg	3.1 UJ	3.6 J	2.3 UJ	3.2 U	3.6 U
Atrazine	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Benzaldehyde	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Benzo(a)anthracene	1050	µg/kg	3.1 UJ	3.2 J	2.3 UJ	4.9	3.6 U
Benzo(a)pyrene	1450	µg/kg	3.1 UJ	4.4 J	2.3 UJ	7.9	3.6 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-57	LMR11-57	LMR11-58	LMR11-59	LMR11-59
		Field Sample ID	LMR11-57-048	LMR11-57-062	LMR11-58-010	LMR11-59-006	LMR11-59-024
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	24- 48	48- 62	0- 10	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	3.1 UJ	4 J	2.3 UJ	11	5
Benzo(g,h,i)perylene	NL	µg/kg	3.1 UJ	34 J	2.3 UJ	4.8	3.6 U
Benzo(k)fluoranthene	NL	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	4	3.6 U
Bis(2-chloroethoxy)methane	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Bis(2-chloroethyl)ether	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Butylbenzylphthalate	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Caprolactam	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Carbazole	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Chrysene	1290	µg/kg	3.1 UJ	5.9 J	2.3 UJ	6.4	3.6 U
Dibenzo(a,h)anthracene	NL	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	3.2 U	3.6 U
Dibenzofuran	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Diethylphthalate	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Dimethylphthalate	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Di-n-butylphthalate	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Di-n-octylphthalate	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Fluoranthene	2230	µg/kg	3.1 UJ	8.6 J	2.3 UJ	13	6.4
Fluorene	536	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	3.2 U	3.6 U
Hexachlorobenzene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Hexachlorobutadiene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Hexachlorocyclopentadiene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 UJ
Hexachloroethane	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	6.5	3.6 U
Isophorone	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Naphthalene	561	µg/kg	3.1 UJ	3.1 UJ	2.3 UJ	3.2 U	3.6 U
Nitrobenzene	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
N-Nitroso-di-n-propylamine	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
N-Nitrosodiphenylamine	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Pentachlorophenol	NL	µg/kg	6.3 UJ	6.2 UJ	4.6 UJ	320 U	7.2 U
Phenanthrene	1170	µg/kg	3.5 J	9.1 J	2.3 UJ	5.5	4.2
Phenol	NL	µg/kg	160 UJ	160 UJ	120 UJ	160 U	180 U
Pyrene	1520	µg/kg	3.1 UJ	9 J	2.3 UJ	11 J	5.5
Total PAH 17	22800	µg/kg	31.95	94.2	19.55	86.2	44.5
TOC	NL	mg/kg	23,300 J	25,900	26,300	27,900 J	22,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-59	LMR11-59	LMR11-59	LMR11-59	LMR11-60
		Field Sample ID	LMR11-59-048	LMR11-59-072	LMR11-59-096	LMR11-59-116	LMR11-60-006
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 116	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,4,5-Trichlorophenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,4,6-Trichlorophenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,4-Dichlorophenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,4-Dimethylphenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,4-Dinitrophenol	NL	µg/kg	350 U	320 U	280 U	250 U	360 UJ
2,4-Dinitrotoluene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2,6-Dinitrotoluene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2-Chloronaphthalene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2-Chlorophenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2-Methylnaphthalene	NL	µg/kg	3.5 U	3.2 U	2.8 U	2.5 U	3.6 UJ
2-Methylphenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
2-Nitroaniline	NL	µg/kg	350 U	320 U	280 U	250 U	360 UJ
2-Nitrophenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
3-Nitroaniline	NL	µg/kg	350 U	320 U	280 U	250 U	360 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	350 U	320 U	280 U	250 U	360 UJ
4-Bromophenyl-phenylether	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
4-Chloro-3-methylphenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
4-Chloroaniline	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
4-Methylphenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
4-Nitroaniline	NL	µg/kg	350 U	320 U	280 U	250 U	360 UJ
4-Nitrophenol	NL	µg/kg	350 U	320 U	280 U	250 U	360 UJ
Acenaphthene	NL	µg/kg	3.5 U	3.2 U	2.8 U	3.1	3.6 UJ
Acenaphthylene	NL	µg/kg	3.5 U	3.2 U	2.8 U	4.4	3.6 UJ
Acetophenone	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Anthracene	845	µg/kg	3.5 U	3.2 U	4.1	6.6	3.6 UJ
Atrazine	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Benzaldehyde	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Benzo(a)anthracene	1050	µg/kg	8.8	6.1	12	15	5.3 J
Benzo(a)pyrene	1450	µg/kg	10	6.5	15	21	6.1 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-59	LMR11-59	LMR11-59	LMR11-59	LMR11-60
		Field Sample ID	LMR11-59-048	LMR11-59-072	LMR11-59-096	LMR11-59-116	LMR11-60-006
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 116	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	16	10	18	23	9.3 J
Benzo(g,h,i)perylene	NL	µg/kg	4.9	3.2 U	7.4	12	3.6 UJ
Benzo(k)fluoranthene	NL	µg/kg	5.1	3.6	6.3	6.8	4 J
Bis(2-chloroethoxy)methane	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	49 J	170 U	38 J	33 J	45 J
Butylbenzylphthalate	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Caprolactam	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Carbazole	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Chrysene	1290	µg/kg	9.9	6.7	12	16	6.6 J
Dibenzo(a,h)anthracene	NL	µg/kg	3.5 U	3.2 U	2.8 U	3.9	3.6 UJ
Dibenzofuran	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Diethylphthalate	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Dimethylphthalate	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Di-n-butylphthalate	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Di-n-octylphthalate	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Fluoranthene	2230	µg/kg	16	14	22	26	16 J
Fluorene	536	µg/kg	3.5 U	3.2 U	2.8 U	2.6	3.6 UJ
Hexachlorobenzene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Hexachlorobutadiene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Hexachlorocyclopentadiene	NL	µg/kg	180 UJ	170 UJ	150 UJ	130 UJ	180 UJ
Hexachloroethane	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.3	4.1	8.3	11	3.9 J
Isophorone	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Naphthalene	561	µg/kg	3.5 U	3.2 U	3.7	5.9	3.6 UJ
Nitrobenzene	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
N-Nitrosodiphenylamine	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Pentachlorophenol	NL	µg/kg	7.1 U	6.6 U	5.7 U	5 U	7.3 UJ
Phenanthrene	1170	µg/kg	9.4	9.3	17	23	9.9 J
Phenol	NL	µg/kg	180 U	170 U	150 U	130 U	180 UJ
Pyrene	1520	µg/kg	14	12	21	27	13 J
Total PAH 17	22800	µg/kg	112.65	85.1	153.8	208.55	88.5
TOC	NL	mg/kg	31,300	20,600	22,100	18,600	18,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-60	LMR11-60	LMR11-60	LMR11-60	LMR11-60
		Field Sample ID	LMR11-60-024	LMR11-60-048	LMR11-60-048FS	LMR11-60-072	LMR11-60-092
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 92
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,4,5-Trichlorophenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,4,6-Trichlorophenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,4-Dichlorophenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,4-Dimethylphenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,4-Dinitrophenol	NL	µg/kg	370 UJ	340 U	350 U	290 U	290 U
2,4-Dinitrotoluene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2,6-Dinitrotoluene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2-Chloronaphthalene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2-Chlorophenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2-Methylnaphthalene	NL	µg/kg	3.7 UJ	3.4 U	3.5 U	6.3	10
2-Methylphenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
2-Nitroaniline	NL	µg/kg	370 UJ	340 U	350 U	290 U	290 U
2-Nitrophenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
3,3'-Dichlorobenzidine	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
3-Nitroaniline	NL	µg/kg	370 UJ	340 U	350 U	290 U	290 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	370 UJ	340 U	350 U	290 U	290 U
4-Bromophenyl-phenylether	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
4-Chloro-3-methylphenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
4-Chloroaniline	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
4-Chlorophenyl-phenylether	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
4-Methylphenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	32 J
4-Nitroaniline	NL	µg/kg	370 UJ	340 U	350 U	290 U	290 U
4-Nitrophenol	NL	µg/kg	370 UJ	340 U	350 U	290 U	290 U
Acenaphthene	NL	µg/kg	3.7 UJ	3.4 U	3.5 U	2.9 U	12
Acenaphthylene	NL	µg/kg	3.7 UJ	3.4 U	3.5 U	2.9 U	10
Acetophenone	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Anthracene	845	µg/kg	3.7 UJ	3.4 U	3.5 U	4.5	26
Atrazine	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Benzaldehyde	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Benzo(a)anthracene	1050	µg/kg	7.6 J	6.3	4	11	60
Benzo(a)pyrene	1450	µg/kg	11 J	8.1	4.4	12	59

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-60	LMR11-60	LMR11-60	LMR11-60	LMR11-60
		Field Sample ID	LMR11-60-024	LMR11-60-048	LMR11-60-048FS	LMR11-60-072	LMR11-60-092
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 92
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	14 J	11	6.9	17	77
Benzo(g,h,i)perylene	NL	µg/kg	3.8 J	3.4 U	3.5 U	6.3	33
Benzo(k)fluoranthene	NL	µg/kg	6 J	4.3	3.5 U	5.8	29
Bis(2-chloroethoxy)methane	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Bis(2-chloroethyl)ether	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	50 J	180 U	54 J	56 J	150 U
Butylbenzylphthalate	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Caprolactam	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Carbazole	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Chrysene	1290	µg/kg	8.7 J	7.3	4.9	13	62
Dibenzo(a,h)anthracene	NL	µg/kg	3.7 UJ	3.4 U	3.5 U	2.9 U	13
Dibenzofuran	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Diethylphthalate	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Dimethylphthalate	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Di-n-butylphthalate	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Di-n-octylphthalate	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Fluoranthene	2230	µg/kg	19 J	12	9.3	26	120
Fluorene	536	µg/kg	3.7 UJ	3.4 U	3.5 U	2.9 U	14
Hexachlorobenzene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Hexachlorobutadiene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Hexachlorocyclopentadiene	NL	µg/kg	190 UJ	180 U	180 UJ	150 UJ	150 UJ
Hexachloroethane	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	6.2 J	4.6	3.5 U	7	35
Isophorone	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Naphthalene	561	µg/kg	3.7 UJ	3.4 U	3.5 U	6.8	14
Nitrobenzene	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
N-Nitroso-di-n-propylamine	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
N-Nitrosodiphenylamine	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Pentachlorophenol	NL	µg/kg	7.5 UJ	340 U	7.2 U	6 U	5.9 U
Phenanthrene	1170	µg/kg	9.4 J	5.8	6.9	25	100
Phenol	NL	µg/kg	190 UJ	180 U	180 U	150 U	150 U
Pyrene	1520	µg/kg	15 J	12	8.6	24	110
Total PAH 17	22800	µg/kg	113.65	85	62.5	170.5	784
TOC	NL	mg/kg	28,100	31,400	23,100	19,500	24,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-61	LMR11-61	LMR11-62	LMR11-62	LMR11-62
		Field Sample ID	LMR11-61-006	LMR11-61-030	LMR11-62-006	LMR11-62-024	LMR11-62-024DP
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	0- 6	6- 30	0- 6	6- 24	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,4,5-Trichlorophenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,4,6-Trichlorophenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,4-Dichlorophenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,4-Dimethylphenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,4-Dinitrophenol	NL	µg/kg	260 UJ	230 UJ	360 U	310 U	370 U
2,4-Dinitrotoluene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2,6-Dinitrotoluene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2-Chloronaphthalene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2-Chlorophenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2-Methylnaphthalene	NL	µg/kg	260 J	2.3 UJ	11	3.1 U	3.7 U
2-Methylphenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
2-Nitroaniline	NL	µg/kg	260 UJ	230 UJ	360 U	310 U	370 U
2-Nitrophenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
3,3'-Dichlorobenzidine	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
3-Nitroaniline	NL	µg/kg	260 UJ	230 UJ	360 U	310 U	370 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	260 UJ	230 UJ	360 U	310 U	370 U
4-Bromophenyl-phenylether	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
4-Chloro-3-methylphenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
4-Chloroaniline	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
4-Chlorophenyl-phenylether	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
4-Methylphenol	NL	µg/kg	31 J	120 UJ	190 U	160 U	190 U
4-Nitroaniline	NL	µg/kg	260 UJ	230 UJ	360 U	310 U	370 U
4-Nitrophenol	NL	µg/kg	260 UJ	230 UJ	360 U	310 U	370 U
Acenaphthene	NL	µg/kg	49 J	3.3 J	20	6.2	3.7 U
Acenaphthylene	NL	µg/kg	22 J	2.3 UJ	3.6 U	3.1 U	3.7 U
Acetophenone	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Anthracene	845	µg/kg	85 J	8.8 J	17	7.2	3.7 U
Atrazine	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Benzaldehyde	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Benzo(a)anthracene	1050	µg/kg	170 J	11 J	14	18	4.9
Benzo(a)pyrene	1450	µg/kg	130 J	8.6 J	23	26	3.7 U

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-61	LMR11-61	LMR11-62	LMR11-62	LMR11-62
		Field Sample ID	LMR11-61-006	LMR11-61-030	LMR11-62-006	LMR11-62-024	LMR11-62-024DP
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	0- 6	6- 30	0- 6	6- 24	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	170 J	11 J	24	26	8.5
Benzo(g,h,i)perylene	NL	µg/kg	80 J	3.1 J	10	9.4	3.7 U
Benzo(k)fluoranthene	NL	µg/kg	70 J	4.2 J	6.4	7.8	3.7 U
Bis(2-chloroethoxy)methane	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Bis(2-chloroethyl)ether	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	140 UJ	260 J	190 U	160 U	190 U
Butylbenzylphthalate	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Caprolactam	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Carbazole	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Chrysene	1290	µg/kg	160 J	11 J	17	18	5.4
Dibenzo(a,h)anthracene	NL	µg/kg	26 UJ	2.3 UJ	3.9	3.9	3.7 U
Dibenzofuran	NL	µg/kg	74 J	120 UJ	190 U	160 U	190 U
Diethylphthalate	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Dimethylphthalate	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Di-n-butylphthalate	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Di-n-octylphthalate	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Fluoranthene	2230	µg/kg	330 J	35 J	35	31	9.4
Fluorene	536	µg/kg	62 J	6.3 J	9.7	3.1 U	3.7 U
Hexachlorobenzene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Hexachlorobutadiene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Hexachlorocyclopentadiene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Hexachloroethane	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	71 J	4 J	12	12	3.7 U
Isophorone	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Naphthalene	561	µg/kg	72 J	2.3 UJ	36	6.6	3.7 U
Nitrobenzene	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
N-Nitroso-di-n-propylamine	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
N-Nitrosodiphenylamine	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Pentachlorophenol	NL	µg/kg	5.4 UJ	4.7 UJ	22 UJ	13 UJ	370 U
Phenanthrene	1170	µg/kg	340 J	21 J	77	22	5.6
Phenol	NL	µg/kg	140 UJ	120 UJ	190 U	160 U	190 U
Pyrene	1520	µg/kg	260 J	20 J	43	38	9.9
Total PAH 17	22800	µg/kg	2344	151.9	360.8	236.75	64.05
TOC	NL	mg/kg	27,400	24,500	27,100	19,700	22,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-62	LMR11-62	LMR11-62	LMR11-62	LMR11-63
		Field Sample ID	LMR11-62-048	LMR11-62-072	LMR11-62-096	LMR11-62-108	LMR11-63-006
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/8/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 108	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,4,5-Trichlorophenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,4,6-Trichlorophenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,4-Dichlorophenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,4-Dimethylphenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,4-Dinitrophenol	NL	µg/kg	250 U	230 U	280 U	290 U	750 U
2,4-Dinitrotoluene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2,6-Dinitrotoluene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2-Chloronaphthalene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2-Chlorophenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2-Methylnaphthalene	NL	µg/kg	2.5 U	2.3 U	2.8	2.9 U	7.5 U
2-Methylphenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
2-Nitroaniline	NL	µg/kg	250 U	230 U	280 U	290 U	750 U
2-Nitrophenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
3,3'-Dichlorobenzidine	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
3-Nitroaniline	NL	µg/kg	250 U	230 U	280 U	290 U	750 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	250 U	230 U	280 U	290 U	750 U
4-Bromophenyl-phenylether	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
4-Chloro-3-methylphenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
4-Chloroaniline	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
4-Chlorophenyl-phenylether	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
4-Methylphenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
4-Nitroaniline	NL	µg/kg	250 U	230 U	280 U	290 U	750 U
4-Nitrophenol	NL	µg/kg	250 U	230 U	280 U	290 U	750 U
Acenaphthene	NL	µg/kg	2.5 U	2.3 U	4.7	2.9 U	7.5 U
Acenaphthylene	NL	µg/kg	2.5 U	2.3 U	4	2.9 U	7.5 U
Acetophenone	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Anthracene	845	µg/kg	2.5 U	2.3 U	12	2.9 U	7.5 U
Atrazine	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Benzaldehyde	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Benzo(a)anthracene	1050	µg/kg	2.5 U	2.3 U	24	2.9 U	15
Benzo(a)pyrene	1450	µg/kg	2.5 U	2.3 U	27	2.9 U	30

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-62	LMR11-62	LMR11-62	LMR11-62	LMR11-63
		Field Sample ID	LMR11-62-048	LMR11-62-072	LMR11-62-096	LMR11-62-108	LMR11-63-006
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/8/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 108	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	2.5 U	2.3 U	37	2.9 U	26
Benzo(g,h,i)perylene	NL	µg/kg	2.5 U	2.3 U	12	2.9 U	14
Benzo(k)fluoranthene	NL	µg/kg	2.5 U	2.3 U	15	2.9 U	14
Bis(2-chloroethoxy)methane	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Bis(2-chloroethyl)ether	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Butylbenzylphthalate	NL	µg/kg	130 U	120 U	140 U	150 U	7100
Caprolactam	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Carbazole	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Chrysene	1290	µg/kg	2.5 U	2.3 U	26	2.9 U	18
Dibenzo(a,h)anthracene	NL	µg/kg	2.5 U	2.3 U	5.5	2.9 U	7.5 U
Dibenzofuran	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Diethylphthalate	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Dimethylphthalate	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Di-n-butylphthalate	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Di-n-octylphthalate	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Fluoranthene	2230	µg/kg	2.5 U	2.3 U	54	2.9 U	30
Fluorene	536	µg/kg	2.5 U	2.3 U	6.1	2.9 U	7.5 U
Hexachlorobenzene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Hexachlorobutadiene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Hexachlorocyclopentadiene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Hexachloroethane	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	2.5 U	2.3 U	16	2.9 U	12
Isophorone	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Naphthalene	561	µg/kg	2.5 U	2.3 U	5.9	2.9 U	7.5 U
Nitrobenzene	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
N-Nitroso-di-n-propylamine	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
N-Nitrosodiphenylamine	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Pentachlorophenol	NL	µg/kg	250 U	230 U	17 UJ	290 U	15 U
Phenanthrene	1170	µg/kg	2.5 U	2.3 U	39	2.9 U	20
Phenol	NL	µg/kg	130 U	120 U	140 U	150 U	380 U
Pyrene	1520	µg/kg	2.5 U	2.3 U	44	2.9 U	30
Total PAH 17	22800	µg/kg	21.25	19.55	335	24.65	235.25
TOC	NL	mg/kg	21,900	6,430	26,900	14,500	26,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-63	LMR11-63	LMR11-63	LMR11-63	LMR11-63
		Field Sample ID	LMR11-63-024	LMR11-63-048	LMR11-63-048FS	LMR11-63-072	LMR11-63-096
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,4,5-Trichlorophenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,4,6-Trichlorophenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,4-Dichlorophenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,4-Dimethylphenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,4-Dinitrophenol	NL	µg/kg	580 U	550 U	480 U	510 U	550 U
2,4-Dinitrotoluene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2,6-Dinitrotoluene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2-Chloronaphthalene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2-Chlorophenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2-Methylnaphthalene	NL	µg/kg	62	38	7.1	40	74
2-Methylphenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
2-Nitroaniline	NL	µg/kg	580 U	550 U	480 U	510 U	550 U
2-Nitrophenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
3,3'-Dichlorobenzidine	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
3-Nitroaniline	NL	µg/kg	580 U	550 U	480 U	510 U	550 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	580 U	550 U	480 U	510 U	550 U
4-Bromophenyl-phenylether	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
4-Chloro-3-methylphenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
4-Chloroaniline	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
4-Chlorophenyl-phenylether	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
4-Methylphenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
4-Nitroaniline	NL	µg/kg	580 U	550 U	480 U	510 U	550 U
4-Nitrophenol	NL	µg/kg	580 U	550 U	480 U	510 U	550 U
Acenaphthene	NL	µg/kg	11	88	9.7	60	51
Acenaphthylene	NL	µg/kg	8.1	34	21	20	52
Acetophenone	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Anthracene	845	µg/kg	37	62	19	60	75
Atrazine	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Benzaldehyde	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Benzo(a)anthracene	1050	µg/kg	93	150	64	92	120
Benzo(a)pyrene	1450	µg/kg	73	160	100	89	180

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-63	LMR11-63	LMR11-63	LMR11-63	LMR11-63
		Field Sample ID	LMR11-63-024	LMR11-63-048	LMR11-63-048FS	LMR11-63-072	LMR11-63-096
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	91	140	71	88	130
Benzo(g,h,i)perylene	NL	µg/kg	45	120	74	65	140
Benzo(k)fluoranthene	NL	µg/kg	52	72	45	50	47
Bis(2-chloroethoxy)methane	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Bis(2-chloroethyl)ether	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Butylbenzylphthalate	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Caprolactam	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Carbazole	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Chrysene	1290	µg/kg	100	150	68	110	120
Dibenzo(a,h)anthracene	NL	µg/kg	21	41	22	28	34
Dibenzofuran	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Diethylphthalate	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Dimethylphthalate	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Di-n-butylphthalate	NL	µg/kg	300 U	85 J	250 U	260 U	280 U
Di-n-octylphthalate	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Fluoranthene	2230	µg/kg	180	220	44	200	150
Fluorene	536	µg/kg	16	46	7.3	47	48
Hexachlorobenzene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Hexachlorobutadiene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Hexachlorocyclopentadiene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Hexachloroethane	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	40	81	45	47	79
Isophorone	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Naphthalene	561	µg/kg	46	65	14	68	160
Nitrobenzene	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
N-Nitroso-di-n-propylamine	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
N-Nitrosodiphenylamine	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Pentachlorophenol	NL	µg/kg	12 U	11 U	9.7 U	10 U	11 U
Phenanthrene	1170	µg/kg	130	280	46	240	260
Phenol	NL	µg/kg	300 U	280 U	250 U	260 U	280 U
Pyrene	1520	µg/kg	180	290	63	240	270
Total PAH 17	22800	µg/kg	1,185	2,037	720.1	1,544	1,990
TOC	NL	mg/kg	40,800	31,800	36,400	46,700 J	36,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-63	LMR11-64	LMR11-64	LMR11-64	LMR11-64
		Field Sample ID	LMR11-63-115	LMR11-88-006	LMR11-88-024	LMR11-88-048	LMR11-88-072
		Sample Date	8/8/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	96- 115	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,4,5-Trichlorophenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,4,6-Trichlorophenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,4-Dichlorophenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,4-Dimethylphenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,4-Dinitrophenol	NL	µg/kg	460 U	270 UJ	300 UJ	270 UJ	530 UJ
2,4-Dinitrotoluene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2,6-Dinitrotoluene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2-Chloronaphthalene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2-Chlorophenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2-Methylnaphthalene	NL	µg/kg	5.1	2.7 UJ	4.8 J	5 J	7.2 J
2-Methylphenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
2-Nitroaniline	NL	µg/kg	460 U	270 UJ	300 UJ	270 UJ	530 UJ
2-Nitrophenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
3-Nitroaniline	NL	µg/kg	460 U	270 UJ	300 UJ	270 UJ	530 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	460 U	270 UJ	300 UJ	270 UJ	530 UJ
4-Bromophenyl-phenylether	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
4-Chloro-3-methylphenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
4-Chloroaniline	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
4-Methylphenol	NL	µg/kg	240 U	94 J	140 J	31 J	270 UJ
4-Nitroaniline	NL	µg/kg	460 U	270 UJ	300 UJ	270 UJ	530 UJ
4-Nitrophenol	NL	µg/kg	460 U	270 UJ	300 UJ	270 UJ	530 UJ
Acenaphthene	NL	µg/kg	4.6 U	3.5 J	4.7 J	2.7 UJ	5.3 UJ
Acenaphthylene	NL	µg/kg	4.6 U	2.7 UJ	3 UJ	3.1 J	17 J
Acetophenone	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Anthracene	845	µg/kg	4.6 U	3.2 J	5 J	6 J	14 J
Atrazine	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Benzaldehyde	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Benzo(a)anthracene	1050	µg/kg	4.6 U	3.7 J	9.6 J	18 J	64 J
Benzo(a)pyrene	1450	µg/kg	4.6 U	2.7 UJ	11 J	19 J	75 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-63	LMR11-64	LMR11-64	LMR11-64	LMR11-64
		Field Sample ID	LMR11-63-115	LMR11-88-006	LMR11-88-024	LMR11-88-048	LMR11-88-072
		Sample Date	8/8/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	96- 115	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	4.6 U	4.7 J	15 J	23 J	110 J
Benzo(g,h,i)perylene	NL	µg/kg	4.6 U	2.7 UJ	7 J	11 J	40 J
Benzo(k)fluoranthene	NL	µg/kg	4.6 U	2.7 UJ	6.2 J	8.8 J	43 J
Bis(2-chloroethoxy)methane	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	240 U	130 J	160 UJ	140 UJ	270 UJ
Butylbenzylphthalate	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Caprolactam	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Carbazole	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Chrysene	1290	µg/kg	5.2	4.2 J	11 J	18 J	70 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.6 U	2.7 UJ	3 UJ	3.8 J	11 J
Dibenzofuran	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Diethylphthalate	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Dimethylphthalate	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Di-n-butylphthalate	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Di-n-octylphthalate	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Fluoranthene	2230	µg/kg	5.2	10 J	24 J	33 J	50 J
Fluorene	536	µg/kg	4.6 U	2.7 UJ	5.1 J	3.7 J	6.3 J
Hexachlorobenzene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Hexachlorobutadiene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Hexachlorocyclopentadiene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Hexachloroethane	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	4.6 U	2.7 UJ	6.1 J	10 J	36 J
Isophorone	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Naphthalene	561	µg/kg	5.8	4.9 J	12 J	9.1 J	15 J
Nitrobenzene	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
N-Nitrosodiphenylamine	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Pentachlorophenol	NL	µg/kg	9.3 U	5.5 UJ	6.1 UJ	5.5 UJ	11 UJ
Phenanthrene	1170	µg/kg	10	14 J	24 J	24 J	33 J
Phenol	NL	µg/kg	240 U	140 UJ	160 UJ	140 UJ	270 UJ
Pyrene	1520	µg/kg	9	9.6 J	21 J	27 J	48 J
Total PAH 17	22800	µg/kg	65.6	68.6	169.5	223.85	642.15
TOC	NL	mg/kg	26,700	24,100	25,400	25,200	30,600

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-64	LMR11-65	LMR11-65	LMR11-66	LMR11-66
		Field Sample ID	LMR11-88-088	LMR11-65-006	LMR11-65-024	LMR11-66-006	LMR11-66-024
		Sample Date	8/7/2011	8/6/2011	8/6/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	72- 88	0- 6	6- 24	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,4,5-Trichlorophenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,4,6-Trichlorophenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,4-Dichlorophenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,4-Dimethylphenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,4-Dinitrophenol	NL	µg/kg	420 UJ	360 U	300 U	370 UJ	370 UJ
2,4-Dinitrotoluene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2,6-Dinitrotoluene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2-Chloronaphthalene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2-Chlorophenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2-Methylnaphthalene	NL	µg/kg	8 J	3.6 U	13	3.7 UJ	3.7 UJ
2-Methylphenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
2-Nitroaniline	NL	µg/kg	420 UJ	360 U	300 U	370 UJ	370 UJ
2-Nitrophenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
3-Nitroaniline	NL	µg/kg	420 UJ	360 U	300 U	370 UJ	370 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	420 UJ	360 U	300 U	370 UJ	370 UJ
4-Bromophenyl-phenylether	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
4-Chloro-3-methylphenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
4-Chloroaniline	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
4-Methylphenol	NL	µg/kg	220 UJ	58 J	54 J	190 UJ	190 UJ
4-Nitroaniline	NL	µg/kg	420 UJ	360 U	300 U	370 UJ	370 UJ
4-Nitrophenol	NL	µg/kg	420 UJ	360 U	300 U	370 UJ	370 UJ
Acenaphthene	NL	µg/kg	4.2 UJ	3.6 U	4.5	3.7 UJ	3.7 UJ
Acenaphthylene	NL	µg/kg	4.2 UJ	3.6 U	4.8	3.7 UJ	3.7 UJ
Acetophenone	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Anthracene	845	µg/kg	8.9 J	3.6 U	7.4	3.7 UJ	3.7 UJ
Atrazine	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Benzaldehyde	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Benzo(a)anthracene	1050	µg/kg	16 J	4.7	24	3.7 UJ	4.6 J
Benzo(a)pyrene	1450	µg/kg	17 J	5	34	3.7 UJ	5.4 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-64	LMR11-65	LMR11-65	LMR11-66	LMR11-66
		Field Sample ID	LMR11-88-088	LMR11-65-006	LMR11-65-024	LMR11-66-006	LMR11-66-024
		Sample Date	8/7/2011	8/6/2011	8/6/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	72- 88	0- 6	6- 24	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	22 J	7.2	45	4.6 J	8.6 J
Benzo(g,h,i)perylene	NL	µg/kg	9 J	3.6 U	18	3.7 UJ	3.7 UJ
Benzo(k)fluoranthene	NL	µg/kg	7.6 J	3.6 U	17	3.7 UJ	3.7 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	220 UJ	190 U	44 J	190 UJ	190 UJ
Butylbenzylphthalate	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Caprolactam	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Carbazole	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Chrysene	1290	µg/kg	17 J	4.9	25	3.7 UJ	5.6 J
Dibenzo(a,h)anthracene	NL	µg/kg	4.2 UJ	3.6 U	7.6	3.7 UJ	3.7 UJ
Dibenzofuran	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Diethylphthalate	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Dimethylphthalate	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Di-n-butylphthalate	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Di-n-octylphthalate	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Fluoranthene	2230	µg/kg	33 J	10	43	6.7 J	15 J
Fluorene	536	µg/kg	5.9 J	3.6 U	5.3	3.7 UJ	3.7 UJ
Hexachlorobenzene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Hexachlorobutadiene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Hexachlorocyclopentadiene	NL	µg/kg	220 UJ	190 UJ	150 UJ	190 UJ	190 UJ
Hexachloroethane	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	7.5 J	3.6 U	22	3.7 UJ	3.7 UJ
Isophorone	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Naphthalene	561	µg/kg	12 J	7.6		3.7 UJ	3.7 UJ
Nitrobenzene	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
N-Nitrosodiphenylamine	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Pentachlorophenol	NL	µg/kg	8.6 UJ	7.3 U	6 U	7.5 UJ	7.6 UJ
Phenanthrene	1170	µg/kg	33 J	8.3	33	5.1 J	9.9 J
Phenol	NL	µg/kg	220 UJ	190 U	150 U	190 UJ	190 UJ
Pyrene	1520	µg/kg	33 J	8.9	35	5.7 J	10 J
Total PAH 17	22800	µg/kg	236.2	72.8	338.6	46.15	77.6
TOC	NL	mg/kg	20,500	17,700	22,000	28,000	26,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-66	LMR11-66	LMR11-66	LMR11-66	LMR11-66
		Field Sample ID	LMR11-66-048	LMR11-66-048FS	LMR11-66-072	LMR11-66-096	LMR11-66-117
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	72- 96	96- 117
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,4,5-Trichlorophenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,4,6-Trichlorophenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,4-Dichlorophenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,4-Dimethylphenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,4-Dinitrophenol	NL	µg/kg	350 UJ	320 UJ	330 UJ	360 UJ	320 UJ
2,4-Dinitrotoluene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2,6-Dinitrotoluene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2-Chloronaphthalene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2-Chlorophenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2-Methylnaphthalene	NL	µg/kg	3.5 UJ	3.2 UJ	3.3 UJ	13 J	3.2 UJ
2-Methylphenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
2-Nitroaniline	NL	µg/kg	350 UJ	320 UJ	330 UJ	360 UJ	320 UJ
2-Nitrophenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
3-Nitroaniline	NL	µg/kg	350 UJ	320 UJ	330 UJ	360 UJ	320 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	350 UJ	320 UJ	330 UJ	360 UJ	320 UJ
4-Bromophenyl-phenylether	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
4-Chloro-3-methylphenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
4-Chloroaniline	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
4-Methylphenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	61 J	160 UJ
4-Nitroaniline	NL	µg/kg	350 UJ	320 UJ	330 UJ	360 UJ	320 UJ
4-Nitrophenol	NL	µg/kg	350 UJ	320 UJ	330 UJ	360 UJ	320 UJ
Acenaphthene	NL	µg/kg	3.5 UJ	3.2 UJ	3.3 UJ	3.6 UJ	3.2 UJ
Acenaphthylene	NL	µg/kg	3.5 UJ	3.2 UJ	3.3 UJ	3.6 UJ	3.2 UJ
Acetophenone	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Anthracene	845	µg/kg	3.5 UJ	3.2 UJ	3.3 UJ	11 J	3.2 UJ
Atrazine	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Benzaldehyde	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Benzo(a)anthracene	1050	µg/kg	15 J	11 J	6.1 J	36 J	3.2 UJ
Benzo(a)pyrene	1450	µg/kg	18 J	10 J	6.8 J	36 J	3.2 UJ

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-66	LMR11-66	LMR11-66	LMR11-66	LMR11-66
		Field Sample ID	LMR11-66-048	LMR11-66-048FS	LMR11-66-072	LMR11-66-096	LMR11-66-117
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	72- 96	96- 117
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	27 J	20 J	10 J	40 J	3.2 UJ
Benzo(g,h,i)perylene	NL	µg/kg	10 J	6.7 J	5.1 J	21 J	3.2 UJ
Benzo(k)fluoranthene	NL	µg/kg	10 J	6.1 J	4 J	27 J	3.2 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	180 UJ	66 J	170 UJ	190 UJ	160 UJ
Butylbenzylphthalate	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Caprolactam	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Carbazole	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Chrysene	1290	µg/kg	17 J	22 J	8.8 J	41 J	3.2 UJ
Dibenzo(a,h)anthracene	NL	µg/kg	3.5 UJ	3.2 UJ	3.3 UJ	5 J	3.2 UJ
Dibenzofuran	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Diethylphthalate	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Dimethylphthalate	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Di-n-butylphthalate	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Di-n-octylphthalate	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Fluoranthene	2230	µg/kg	24 J	25 J	19 J	73 J	3.2 UJ
Fluorene	536	µg/kg	3.5 UJ	3.2 UJ	3.3 UJ	5.8 J	3.2 UJ
Hexachlorobenzene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Hexachlorobutadiene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Hexachlorocyclopentadiene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Hexachloroethane	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	10 J	6.4 J	4.7 J	20 J	3.2 UJ
Isophorone	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Naphthalene	561	µg/kg	3.5 UJ	3.2 UJ	4 J	12 J	3.2 UJ
Nitrobenzene	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
N-Nitrosodiphenylamine	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Pentachlorophenol	NL	µg/kg	7.1 UJ	6.4 UJ	6.7 UJ	7.3 UJ	6.4 UJ
Phenanthrene	1170	µg/kg	13 J	12 J	13 J	43 J	3.2 UJ
Phenol	NL	µg/kg	180 UJ	160 UJ	170 UJ	190 UJ	160 UJ
Pyrene	1520	µg/kg	18 J	16 J	13 J	66 J	3.2 UJ
Total PAH 17	22800	µg/kg	174.25	146.4	104.4	453.4	27.2
TOC	NL	mg/kg	23,800 J	24,500	25,600	24,500	34,900

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-67	LMR11-67	LMR11-67	LMR11-67	LMR11-68
		Field Sample ID	LMR11-67-006	LMR11-67-024	LMR11-67-048	LMR11-67-077	LMR11-68-006
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 77	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,4,5-Trichlorophenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,4,6-Trichlorophenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,4-Dichlorophenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,4-Dimethylphenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,4-Dinitrophenol	NL	µg/kg	350 U	350 U	310 U	290 U	350 UJ
2,4-Dinitrotoluene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2,6-Dinitrotoluene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2-Chloronaphthalene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2-Chlorophenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2-Methylnaphthalene	NL	µg/kg	3.5 U	4.2	5.3	15	3.5 UJ
2-Methylphenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
2-Nitroaniline	NL	µg/kg	350 U	350 U	310 U	290 U	350 UJ
2-Nitrophenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
3-Nitroaniline	NL	µg/kg	350 U	350 U	310 U	290 U	350 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	350 U	350 U	310 U	290 U	350 UJ
4-Bromophenyl-phenylether	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
4-Chloro-3-methylphenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
4-Chloroaniline	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
4-Methylphenol	NL	µg/kg	56 J	91 J	86 J	39 J	180 UJ
4-Nitroaniline	NL	µg/kg	350 U	350 U	310 U	290 U	350 UJ
4-Nitrophenol	NL	µg/kg	350 U	350 U	310 U	290 U	350 UJ
Acenaphthene	NL	µg/kg	3.5 U	3.5 U	3.1 U	15	3.5 UJ
Acenaphthylene	NL	µg/kg	3.5 U	3.5 U	6.1	15	3.5 UJ
Acetophenone	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Anthracene	845	µg/kg	5.2	4.4	9.6	29	3.5 UJ
Atrazine	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Benzaldehyde	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Benzo(a)anthracene	1050	µg/kg	13	11	48	88	6.1 J
Benzo(a)pyrene	1450	µg/kg	18	14	48	87	6.8 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-67	LMR11-67	LMR11-67	LMR11-67	LMR11-68
		Field Sample ID	LMR11-67-006	LMR11-67-024	LMR11-67-048	LMR11-67-077	LMR11-68-006
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 77	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	21	19	53	100	11 J
Benzo(g,h,i)perylene	NL	µg/kg	7.6	6.7	20	39	5.2 J
Benzo(k)fluoranthene	NL	µg/kg	8.8	7.7	20	43	4.2 J
Bis(2-chloroethoxy)methane	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 J	68 J	43 J	150 U	180 UJ
Butylbenzylphthalate	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Caprolactam	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Carbazole	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Chrysene	1290	µg/kg	14	13	45	86	7.2 J
Dibenzo(a,h)anthracene	NL	µg/kg	3.5 U	3.5 U	8.1	19	3.5 UJ
Dibenzofuran	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Diethylphthalate	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Dimethylphthalate	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Di-n-butylphthalate	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Di-n-octylphthalate	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Fluoranthene	2230	µg/kg	25	22	75	140	17 J
Fluorene	536	µg/kg	3.5 U	3.5 U	4.2	15	3.5 UJ
Hexachlorobenzene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Hexachlorobutadiene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Hexachlorocyclopentadiene	NL	µg/kg	180 UJ	180 UJ	160 UJ	150 UJ	180 UJ
Hexachloroethane	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	9.4	8.8	25	52	4.5 J
Isophorone	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Naphthalene	561	µg/kg	6.6	11	9.2	29	3.5 UJ
Nitrobenzene	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
N-Nitrosodiphenylamine	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Pentachlorophenol	NL	µg/kg	7 U	7.1 U	6.4 U	5.9 U	7.2 UJ
Phenanthrene	1170	µg/kg	20	17	35	110	12 J
Phenol	NL	µg/kg	180 U	180 U	160 U	150 U	180 UJ
Pyrene	1520	µg/kg	22	19	77	120	14 J
Total PAH 17	22800	µg/kg	179.35	164.8	490.05	1,002	100.25
TOC	NL	mg/kg	24,400	27,300	29,400	32,800	27,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-68	LMR11-68	LMR11-68	LMR11-68	LMR11-69
		Field Sample ID	LMR11-68-024	LMR11-68-048	LMR11-68-072	LMR11-68-096	LMR11-69-006
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/6/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	390 J
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,4,5-Trichlorophenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,4,6-Trichlorophenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,4-Dichlorophenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,4-Dimethylphenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,4-Dinitrophenol	NL	µg/kg	370 UJ	370 UJ	350 UJ	340 UJ	230 UJ
2,4-Dinitrotoluene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2,6-Dinitrotoluene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2-Chloronaphthalene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2-Chlorophenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2-Methylnaphthalene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.4 UJ	1,400 J
2-Methylphenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
2-Nitroaniline	NL	µg/kg	370 UJ	370 UJ	350 UJ	340 UJ	230 UJ
2-Nitrophenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
3-Nitroaniline	NL	µg/kg	370 UJ	370 UJ	350 UJ	340 UJ	230 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	370 UJ	370 UJ	350 UJ	340 UJ	230 UJ
4-Bromophenyl-phenylether	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
4-Chloro-3-methylphenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
4-Chloroaniline	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	44 J
4-Chlorophenyl-phenylether	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
4-Methylphenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	110 J
4-Nitroaniline	NL	µg/kg	370 UJ	370 UJ	350 UJ	340 UJ	230 UJ
4-Nitrophenol	NL	µg/kg	370 UJ	370 UJ	350 UJ	340 UJ	230 UJ
Acenaphthene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.4 UJ	13,000 J
Acenaphthylene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.4 UJ	2,700 J
Acetophenone	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Anthracene	845	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.7 J	21,000 J
Atrazine	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Benzaldehyde	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Benzo(a)anthracene	1050	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	8.4 J	22,000 J
Benzo(a)pyrene	1450	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	9.5 J	14,000 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-68	LMR11-68	LMR11-68	LMR11-68	LMR11-69
		Field Sample ID	LMR11-68-024	LMR11-68-048	LMR11-68-072	LMR11-68-096	LMR11-69-006
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/6/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	5 J	3.7 UJ	3.5 UJ	15 J	17,000 J
Benzo(g,h,i)perylene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	6.6 J	4700 J
Benzo(k)fluoranthene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	5.9 J	11,000 J
Bis(2-chloroethoxy)methane	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	1,500 J
Butylbenzylphthalate	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Caprolactam	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Carbazole	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	2,000 J
Chrysene	1290	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	11 J	23,000 J
Dibenzo(a,h)anthracene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.4 UJ	1,900 J
Dibenzofuran	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	3,200 J
Diethylphthalate	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Dimethylphthalate	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Di-n-butylphthalate	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	410 J
Di-n-octylphthalate	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	470 J
Fluoranthene	2230	µg/kg	8.9 J	3.7 UJ	3.5 UJ	22 J	59,000 J
Fluorene	536	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.4 UJ	14,000 J
Hexachlorobenzene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Hexachlorobutadiene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Hexachlorocyclopentadiene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Hexachloroethane	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	6 J	6200 J
Isophorone	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Naphthalene	561	µg/kg	3.7 UJ	3.7 UJ	3.5 UJ	3.7 J	3,700 J
Nitrobenzene	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
N-Nitrosodiphenylamine	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	120 UJ
Pentachlorophenol	NL	µg/kg	7.6 UJ	7.4 UJ	7.1 UJ	6.9 UJ	46 UJ
Phenanthrene	1170	µg/kg	7 J	3.7 UJ	3.5 UJ	15 J	38,000 J
Phenol	NL	µg/kg	190 UJ	190 UJ	180 UJ	180 UJ	51 J
Pyrene	1520	µg/kg	7.1 J	3.7 UJ	3.5 UJ	18 J	45,000 J
Total PAH 17	22800	µg/kg	52.05	31.45	29.75	133.3	297,600
TOC	NL	mg/kg	23,600	23,800	22,400	23,000	45,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-70	LMR11-70	LMR11-70	LMR11-70	LMR11-70
		Field Sample ID	LMR11-70-006	LMR11-70-024	LMR11-70-048	LMR11-70-072	LMR11-70-072FS
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,4,5-Trichlorophenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,4,6-Trichlorophenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,4-Dichlorophenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,4-Dimethylphenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,4-Dinitrophenol	NL	µg/kg	770 UJ	710 UJ	620 UJ	350 UJ	620 UJ
2,4-Dinitrotoluene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2,6-Dinitrotoluene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2-Chloronaphthalene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2-Chlorophenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2-Methylnaphthalene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.7 J
2-Methylphenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
2-Nitroaniline	NL	µg/kg	770 UJ	710 UJ	620 UJ	350 UJ	620 UJ
2-Nitrophenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
3-Nitroaniline	NL	µg/kg	770 UJ	710 UJ	620 UJ	350 UJ	620 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	770 UJ	710 UJ	620 UJ	350 UJ	620 UJ
4-Bromophenyl-phenylether	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
4-Chloro-3-methylphenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
4-Chloroaniline	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
4-Methylphenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
4-Nitroaniline	NL	µg/kg	770 UJ	710 UJ	620 UJ	350 UJ	620 UJ
4-Nitrophenol	NL	µg/kg	770 UJ	710 UJ	620 UJ	350 UJ	620 UJ
Acenaphthene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.2 UJ
Acenaphthylene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.2 UJ
Acetophenone	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Anthracene	845	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.2 UJ
Atrazine	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Benzaldehyde	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Benzo(a)anthracene	1050	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	4.1 J	13 J
Benzo(a)pyrene	1450	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	4.3 J	20 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-70	LMR11-70	LMR11-70	LMR11-70	LMR11-70
		Field Sample ID	LMR11-70-006	LMR11-70-024	LMR11-70-048	LMR11-70-072	LMR11-70-072FS
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	7.2 J	25 J
Benzo(g,h,i)perylene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	11 J
Benzo(k)fluoranthene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	11 J
Bis(2-chloroethoxy)methane	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Butylbenzylphthalate	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Caprolactam	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Carbazole	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Chrysene	1290	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	4.4 J	15 J
Dibenzo(a,h)anthracene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.2 UJ
Dibenzofuran	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Diethylphthalate	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Dimethylphthalate	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Di-n-butylphthalate	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Di-n-octylphthalate	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Fluoranthene	2230	µg/kg	13 J	13 J	11 J	8.4 J	32 J
Fluorene	536	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.2 UJ
Hexachlorobenzene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Hexachlorobutadiene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Hexachlorocyclopentadiene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Hexachloroethane	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	9.8 J
Isophorone	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Naphthalene	561	µg/kg	7.7 UJ	7.1 UJ	6.2 UJ	3.5 UJ	6.3 J
Nitrobenzene	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
N-Nitrosodiphenylamine	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Pentachlorophenol	NL	µg/kg	16 UJ	14 UJ	12 UJ	7.2 UJ	13 UJ
Phenanthrene	1170	µg/kg	9 J	10 J	7.7 J	5 J	19 J
Phenol	NL	µg/kg	400 UJ	370 UJ	320 UJ	180 UJ	320 UJ
Pyrene	1520	µg/kg	13 J	13 J	11 J	7.5 J	28 J
Total PAH 17	22800	µg/kg	88.9	85.7	73.1	58.4	212.3
TOC	NL	mg/kg	23,600	25,500	29,000	37,000	35,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-70	LMR11-71	LMR11-71	LMR11-71	LMR11-71
		Field Sample ID	LMR11-70-085	LMR11-71-006	LMR11-71-024	LMR11-71-024FS	LMR11-71-048
		Sample Date	8/7/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	72- 85	0- 6	6- 24	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,4,5-Trichlorophenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,4,6-Trichlorophenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,4-Dichlorophenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,4-Dimethylphenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,4-Dinitrophenol	NL	µg/kg	570 UJ	420 UJ	390 UJ	390 UJ	350 UJ
2,4-Dinitrotoluene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2,6-Dinitrotoluene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2-Chloronaphthalene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2-Chlorophenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2-Methylnaphthalene	NL	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
2-Methylphenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
2-Nitroaniline	NL	µg/kg	570 UJ	420 UJ	390 UJ	390 UJ	350 UJ
2-Nitrophenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
3-Nitroaniline	NL	µg/kg	570 UJ	420 UJ	390 UJ	390 UJ	350 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	570 UJ	420 UJ	390 UJ	390 UJ	350 UJ
4-Bromophenyl-phenylether	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
4-Chloro-3-methylphenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
4-Chloroaniline	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
4-Methylphenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
4-Nitroaniline	NL	µg/kg	570 UJ	420 UJ	390 UJ	390 UJ	350 UJ
4-Nitrophenol	NL	µg/kg	570 UJ	420 UJ	390 UJ	390 UJ	350 UJ
Acenaphthene	NL	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Acenaphthylene	NL	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Acetophenone	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Anthracene	845	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Atrazine	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Benzaldehyde	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Benzo(a)anthracene	1050	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.3 J
Benzo(a)pyrene	1450	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.8 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-70	LMR11-71	LMR11-71	LMR11-71	LMR11-71
		Field Sample ID	LMR11-70-085	LMR11-71-006	LMR11-71-024	LMR11-71-024FS	LMR11-71-048
		Sample Date	8/7/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	72- 85	0- 6	6- 24	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	7.4 J	4.2 J	4 J	3.9 UJ	6.2 J
Benzo(g,h,i)perylene	NL	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Benzo(k)fluoranthene	NL	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Butylbenzylphthalate	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Caprolactam	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Carbazole	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Chrysene	1290	µg/kg	6.5 J	4.2 UJ	3.9 UJ	3.9 UJ	3.8 J
Dibenzo(a,h)anthracene	NL	µg/kg	5.7 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Dibenzofuran	NL	µg/kg	290 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Diethylphthalate	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Dimethylphthalate	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Di-n-butylphthalate	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Di-n-octylphthalate	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Fluoranthene	2230	µg/kg	14 J	6 J	6.3 J	5.2 J	8.6 J
Fluorene	536	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Hexachlorobenzene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Hexachlorobutadiene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Hexachlorocyclopentadiene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Hexachloroethane	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Isophorone	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Naphthalene	561	µg/kg	5.7 UJ	4.2 UJ	3.9 UJ	3.9 UJ	3.5 UJ
Nitrobenzene	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
N-Nitrosodiphenylamine	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Pentachlorophenol	NL	µg/kg	11 UJ	8.5 UJ	8 UJ	7.8 UJ	7 UJ
Phenanthrene	1170	µg/kg	11 J	4.2 UJ	4.1 J	3.9 UJ	6.7 J
Phenol	NL	µg/kg	290 UJ	210 UJ	200 UJ	200 UJ	180 UJ
Pyrene	1520	µg/kg	15 J	5.1 J	5.4 J	4.5 J	7.5 J
Total PAH 17	22800	µg/kg	88.1	44.7	45.15	38.95	57.4
TOC	NL	mg/kg	29,000	27,700	21,600	19,800	20,200

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-71
		Field Sample ID	LMR11-71-072	LMR11-71-096	LMR11-71-120	LMR11-71-144	LMR11-71-161
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	120- 144	144- 161
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,4,5-Trichlorophenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,4,6-Trichlorophenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,4-Dichlorophenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,4-Dimethylphenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,4-Dinitrophenol	NL	µg/kg	330 UJ	320 UJ	310 UJ	300 UJ	300 UJ
2,4-Dinitrotoluene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2,6-Dinitrotoluene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2-Chloronaphthalene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2-Chlorophenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2-Methylnaphthalene	NL	µg/kg	4.7 J	8.6 J	3.1 UJ	9.8 J	12 J
2-Methylphenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
2-Nitroaniline	NL	µg/kg	330 UJ	320 UJ	310 UJ	300 UJ	300 UJ
2-Nitrophenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
3-Nitroaniline	NL	µg/kg	330 UJ	320 UJ	310 UJ	300 UJ	300 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	330 UJ	320 UJ	310 UJ	300 UJ	300 UJ
4-Bromophenyl-phenylether	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
4-Chloro-3-methylphenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
4-Chloroaniline	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
4-Methylphenol	NL	µg/kg	54 J	82 J	64 J	51 J	51 J
4-Nitroaniline	NL	µg/kg	330 UJ	320 UJ	310 UJ	300 UJ	300 UJ
4-Nitrophenol	NL	µg/kg	330 UJ	320 UJ	310 UJ	300 UJ	300 UJ
Acenaphthene	NL	µg/kg	6.7 J	5.3 J	3.1 UJ	3.7 J	3.1 J
Acenaphthylene	NL	µg/kg	4 J	5.3 J	5.8 J	3 UJ	3 UJ
Acetophenone	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Anthracene	845	µg/kg	8 J	10 J	3.7 J	5.7 J	5.1 J
Atrazine	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Benzaldehyde	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Benzo(a)anthracene	1050	µg/kg	26 J	27 J	9.2 J	17 J	10 J
Benzo(a)pyrene	1450	µg/kg	28 J	32 J	9.9 J	22 J	11 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-71
		Field Sample ID	LMR11-71-072	LMR11-71-096	LMR11-71-120	LMR11-71-144	LMR11-71-161
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	120- 144	144- 161
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	39 J	46 J	15 J	28 J	16 J
Benzo(g,h,i)perylene	NL	µg/kg	15 J	20 J	4.7 J	12 J	7.3 J
Benzo(k)fluoranthene	NL	µg/kg	12 J	14 J	5.3 J	7.4 J	5.7 J
Bis(2-chloroethoxy)methane	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Butylbenzylphthalate	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Caprolactam	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Carbazole	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Chrysene	1290	µg/kg	23 J	41 J	9.8 J	17 J	12 J
Dibenzo(a,h)anthracene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Dibenzofuran	NL	µg/kg	4.9 J	6.1 J	3.1 UJ	3.7 J	3 UJ
Diethylphthalate	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Dimethylphthalate	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Di-n-butylphthalate	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Di-n-octylphthalate	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Fluoranthene	2230	µg/kg	57 J	70 J	18 J	29 J	22 J
Fluorene	536	µg/kg	5.1 J	5.9 J	3.1 UJ	3.8 J	3.7 J
Hexachlorobenzene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Hexachlorobutadiene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Hexachlorocyclopentadiene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Hexachloroethane	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	14 J	19 J	6.4 J	11 J	6.6 J
Isophorone	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Naphthalene	561	µg/kg	11 J	18 J	4.7 J	7 J	10 J
Nitrobenzene	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
N-Nitrosodiphenylamine	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Pentachlorophenol	NL	µg/kg	6.7 UJ	6.6 UJ	6.3 UJ	6.2 UJ	6.1 UJ
Phenanthrene	1170	µg/kg	28 J	41 J	11 J	24 J	21 J
Phenol	NL	µg/kg	170 UJ	170 UJ	160 UJ	160 UJ	150 UJ
Pyrene	1520	µg/kg	41 J	49 J	14 J	27 J	18 J
Total PAH 17	22800	µg/kg	327.4	418.2	123.7	229.6	166.5
TOC	NL	mg/kg	23,300	27,800	24,400	29,200	21,100

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-72	LMR11-72	LMR11-72	LMR11-73	LMR11-73
		Field Sample ID	LMR11-72-006	LMR11-72-024	LMR11-72-035	LMR11-73-006	LMR11-73-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 35	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,4,5-Trichlorophenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,4,6-Trichlorophenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,4-Dichlorophenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,4-Dimethylphenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,4-Dinitrophenol	NL	µg/kg	310 UJ	230 UJ	240 UJ	320 UJ	340 UJ
2,4-Dinitrotoluene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2,6-Dinitrotoluene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2-Chloronaphthalene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2-Chlorophenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2-Methylnaphthalene	NL	µg/kg	42 J	5.8 J	2.4 UJ	3.2 UJ	3.4 UJ
2-Methylphenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
2-Nitroaniline	NL	µg/kg	310 UJ	230 UJ	240 UJ	320 UJ	340 UJ
2-Nitrophenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
3-Nitroaniline	NL	µg/kg	310 UJ	230 UJ	240 UJ	320 UJ	340 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	310 UJ	230 UJ	240 UJ	320 UJ	340 UJ
4-Bromophenyl-phenylether	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
4-Chloro-3-methylphenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
4-Chloroaniline	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
4-Methylphenol	NL	µg/kg	64 J	120 UJ	120 UJ	160 UJ	180 UJ
4-Nitroaniline	NL	µg/kg	310 UJ	230 UJ	240 UJ	320 UJ	340 UJ
4-Nitrophenol	NL	µg/kg	310 UJ	230 UJ	240 UJ	320 UJ	340 UJ
Acenaphthene	NL	µg/kg	130 J	89 J	2.4 UJ	3.2 UJ	3.4 UJ
Acenaphthylene	NL	µg/kg	72 J	5.5 J	2.4 UJ	3.2 UJ	3.4 UJ
Acetophenone	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Anthracene	845	µg/kg	270 J	43 J	2.4 UJ	5.8 J	3.4 UJ
Atrazine	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Benzaldehyde	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Benzo(a)anthracene	1050	µg/kg	340 J	41 J	2.4 UJ	17 J	3.8 J
Benzo(a)pyrene	1450	µg/kg	270 J	34 J	2.4 UJ	18 J	4.7 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-72	LMR11-72	LMR11-72	LMR11-73	LMR11-73
		Field Sample ID	LMR11-72-006	LMR11-72-024	LMR11-72-035	LMR11-73-006	LMR11-73-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 35	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	260 J	35 J	2.4 UJ	28 J	8.4 J
Benzo(g,h,i)perylene	NL	µg/kg	140 J	14 J	2.4 UJ	11 J	4 J
Benzo(k)fluoranthene	NL	µg/kg	110 J	14 J	2.4 UJ	7.8 J	3.4 UJ
Bis(2-chloroethoxy)methane	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Butylbenzylphthalate	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Caprolactam	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Carbazole	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Chrysene	1290	µg/kg	350 J	44 J	4.8 J	18 J	5.4 J
Dibenzo(a,h)anthracene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Dibenzofuran	NL	µg/kg	44 J	4.2 J	2.4 UJ	3.3 J	3.4 UJ
Diethylphthalate	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Dimethylphthalate	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Di-n-butylphthalate	NL	µg/kg	160 UJ	81 J	120 UJ	160 UJ	180 UJ
Di-n-octylphthalate	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Fluoranthene	2230	µg/kg	800 J	95 J	4.6 J	52 J	11 J
Fluorene	536	µg/kg	140 J	56 J	2.4 UJ	3.2 UJ	3.4 UJ
Hexachlorobenzene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Hexachlorobutadiene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Hexachlorocyclopentadiene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Hexachloroethane	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	150 J	15 J	2.4 UJ	10 J	3.4 UJ
Isophorone	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Naphthalene	561	µg/kg	70 J	6.2 J	2.4 UJ	3.2 UJ	3.4 UJ
Nitrobenzene	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
N-Nitrosodiphenylamine	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Pentachlorophenol	NL	µg/kg	6.4 UJ	4.7 UJ	4.8 UJ	6.4 UJ	7 UJ
Phenanthrene	1170	µg/kg	1,000 J	270 J	8.4 J	29 J	7.9 J
Phenol	NL	µg/kg	160 UJ	120 UJ	120 UJ	160 UJ	180 UJ
Pyrene	1520	µg/kg	800 J	100 J	6.2 J	31 J	8.7 J
Total PAH 17	22800	µg/kg	4,988	871.7	39.6	238.9	69.2
TOC	NL	mg/kg	61,100	21,600	12,800	21,000	19,600

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-73	LMR11-74	LMR11-74	LMR11-74	LMR11-74
		Field Sample ID	LMR11-73-042	LMR11-74-006	LMR11-74-024	LMR11-74-048	LMR11-74-048FS
		Sample Date	8/7/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 42	0- 6	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,4,5-Trichlorophenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,4,6-Trichlorophenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,4-Dichlorophenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,4-Dimethylphenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,4-Dinitrophenol	NL	µg/kg	270 UJ	330 UJ	310 UJ	320 UJ	310 UJ
2,4-Dinitrotoluene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2,6-Dinitrotoluene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2-Chloronaphthalene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2-Chlorophenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2-Methylnaphthalene	NL	µg/kg	150 J	3.3 UJ	6.5 J	7.4 J	5.1 J
2-Methylphenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
2-Nitroaniline	NL	µg/kg	270 UJ	330 UJ	310 UJ	320 UJ	310 UJ
2-Nitrophenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
3-Nitroaniline	NL	µg/kg	270 UJ	330 UJ	310 UJ	320 UJ	310 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	270 UJ	330 UJ	310 UJ	320 UJ	310 UJ
4-Bromophenyl-phenylether	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
4-Chloro-3-methylphenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
4-Chloroaniline	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
4-Methylphenol	NL	µg/kg	140 UJ	59 J	42 J	44 J	33 J
4-Nitroaniline	NL	µg/kg	270 UJ	330 UJ	310 UJ	320 UJ	310 UJ
4-Nitrophenol	NL	µg/kg	270 UJ	330 UJ	310 UJ	320 UJ	310 UJ
Acenaphthene	NL	µg/kg	6.1 J	3.3 UJ	5.6 J	4.9 J	3.5 J
Acenaphthylene	NL	µg/kg	3.1 J	3.3 UJ	6.8 J	7.2 J	5.6 J
Acetophenone	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Anthracene	845	µg/kg	8.1 J	3.4 J	13 J	12 J	9.8 J
Atrazine	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Benzaldehyde	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Benzo(a)anthracene	1050	µg/kg	25 J	5.9 J	27 J	21 J	19 J
Benzo(a)pyrene	1450	µg/kg	27 J	9.1 J	30 J	27 J	23 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-73	LMR11-74	LMR11-74	LMR11-74	LMR11-74
		Field Sample ID	LMR11-73-042	LMR11-74-006	LMR11-74-024	LMR11-74-048	LMR11-74-048FS
		Sample Date	8/7/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 42	0- 6	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	36 J	11 J	33 J	30 J	26 J
Benzo(g,h,i)perylene	NL	µg/kg	18 J	4.5 J	12 J	11 J	9.9 J
Benzo(k)fluoranthene	NL	µg/kg	16 J	4.4 J	21 J	15 J	11 J
Bis(2-chloroethoxy)methane	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Butylbenzylphthalate	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Caprolactam	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Carbazole	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Chrysene	1290	µg/kg	34 J	7.1 J	33 J	26 J	20 J
Dibenzo(a,h)anthracene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Dibenzofuran	NL	µg/kg	5.6 J	3.3 UJ	4.4 J	4.2 J	3.3 J
Diethylphthalate	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Dimethylphthalate	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Di-n-butylphthalate	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Di-n-octylphthalate	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Fluoranthene	2230	µg/kg	38 J	13 J	58 J	40 J	36 J
Fluorene	536	µg/kg	9.3 J	3.3 UJ	8.5 J	7.6 J	5.9 J
Hexachlorobenzene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Hexachlorobutadiene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Hexachlorocyclopentadiene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Hexachloroethane	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	16 J	6.1 J	16 J	14 J	12 J
Isophorone	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Naphthalene	561	µg/kg	140 J	9.8 J	13 J	14 J	9 J
Nitrobenzene	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
N-Nitrosodiphenylamine	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Pentachlorophenol	NL	µg/kg	5.6 UJ	6.8 UJ	6.4 UJ	6.5 UJ	6.4 UJ
Phenanthrene	1170	µg/kg	55 J	12 J	47 J	39 J	34 J
Phenol	NL	µg/kg	140 UJ	170 UJ	160 UJ	170 UJ	160 UJ
Pyrene	1520	µg/kg	38 J	13 J	65 J	42 J	36 J
Total PAH 17	22800	µg/kg	625.2	107.55	399.8	322.3	269.1
TOC	NL	mg/kg	13,300	22,200	31,500	21,800	29,800

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-74	LMR11-74	LMR11-75	LMR11-75	LMR11-75
		Field Sample ID	LMR11-74-072	LMR11-74-085	LMR11-75-006	LMR11-75-024	LMR11-75-048
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	72- 85	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,4,5-Trichlorophenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,4,6-Trichlorophenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,4-Dichlorophenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,4-Dimethylphenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,4-Dinitrophenol	NL	µg/kg	310 UJ	230 UJ	330 UJ	320 UJ	330 U
2,4-Dinitrotoluene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2,6-Dinitrotoluene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2-Chloronaphthalene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2-Chlorophenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2-Methylnaphthalene	NL	µg/kg	4.5 J	11 J	6.9 J	5.7 J	4.4
2-Methylphenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
2-Nitroaniline	NL	µg/kg	310 UJ	230 UJ	330 UJ	320 UJ	330 U
2-Nitrophenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
3,3'-Dichlorobenzidine	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
3-Nitroaniline	NL	µg/kg	310 UJ	230 UJ	330 UJ	320 UJ	330 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	310 UJ	230 UJ	330 UJ	320 UJ	330 U
4-Bromophenyl-phenylether	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
4-Chloro-3-methylphenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
4-Chloroaniline	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
4-Chlorophenyl-phenylether	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
4-Methylphenol	NL	µg/kg	66 J	120 UJ	170 UJ	170 UJ	170 U
4-Nitroaniline	NL	µg/kg	310 UJ	230 UJ	330 UJ	320 UJ	330 U
4-Nitrophenol	NL	µg/kg	310 UJ	230 UJ	330 UJ	320 UJ	330 U
Acenaphthene	NL	µg/kg	3.1 UJ	16 J	6.6 J	5.8 J	6.6
Acenaphthylene	NL	µg/kg	4.4 J	11 J	10 J	6.1 J	7
Acetophenone	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Anthracene	845	µg/kg	7.3 J	42 J	17 J	13 J	13
Atrazine	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Benzaldehyde	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Benzo(a)anthracene	1050	µg/kg	16 J	70 J	45 J	30 J	24
Benzo(a)pyrene	1450	µg/kg	20 J	62 J	53 J	32 J	33

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-74	LMR11-74	LMR11-75	LMR11-75	LMR11-75
		Field Sample ID	LMR11-74-072	LMR11-74-085	LMR11-75-006	LMR11-75-024	LMR11-75-048
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	72- 85	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	24 J	66 J	74 J	47 J	32
Benzo(g,h,i)perylene	NL	µg/kg	8 J	28 J	20 J	13 J	11
Benzo(k)fluoranthene	NL	µg/kg	8.9 J	34 J	24 J	18 J	18
Bis(2-chloroethoxy)methane	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Bis(2-chloroethyl)ether	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Butylbenzylphthalate	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Caprolactam	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Carbazole	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Chrysene	1290	µg/kg	19 J	78 J	52 J	32 J	26
Dibenzo(a,h)anthracene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Dibenzofuran	NL	µg/kg	3.1 UJ	8.8 J	11 J	6.7 J	5.8
Diethylphthalate	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Dimethylphthalate	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Di-n-butylphthalate	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Di-n-octylphthalate	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Fluoranthene	2230	µg/kg	28 J	140 J	100 J	64 J	45
Fluorene	536	µg/kg	4.5 J	16 J	9.7 J	7.8 J	8
Hexachlorobenzene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Hexachlorobutadiene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Hexachlorocyclopentadiene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Hexachloroethane	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	10 J	32 J	32 J	20 J	17
Isophorone	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Naphthalene	561	µg/kg	7.6 J	11 J	18 J	9.9 J	9.1
Nitrobenzene	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
N-Nitroso-di-n-propylamine	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
N-Nitrosodiphenylamine	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Pentachlorophenol	NL	µg/kg	6.2 UJ	4.7 UJ	6.7 UJ	6.5 UJ	6.7 UJ
Phenanthrene	1170	µg/kg	24 J	150 J	68 J	42 J	35
Phenol	NL	µg/kg	160 UJ	120 UJ	170 UJ	170 UJ	170 U
Pyrene	1520	µg/kg	29 J	140 J	85 J	56 J	39
Total PAH 17	22800	µg/kg	218.3	915.8	632.2	409	333.9
TOC	NL	mg/kg	25,200	10,800	29,700	41,700	33,600

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-75	LMR11-75	LMR11-76	LMR11-76	LMR11-76
		Field Sample ID	LMR11-75-048FS	LMR11-75-080	LMR11-76-006	LMR11-76-024	LMR11-76-048
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 48	48- 80	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,4,5-Trichlorophenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,4,6-Trichlorophenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,4-Dichlorophenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,4-Dimethylphenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,4-Dinitrophenol	NL	µg/kg	320 U	320 UJ	390 U	280 U	330 U
2,4-Dinitrotoluene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2,6-Dinitrotoluene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2-Chloronaphthalene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2-Chlorophenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2-Methylnaphthalene	NL	µg/kg	3.2 U	3.9 J	17	2.8 U	3.9
2-Methylphenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
2-Nitroaniline	NL	µg/kg	320 U	320 UJ	390 U	280 U	330 U
2-Nitrophenol	NL	µg/kg	160 U	170 UJ	200 UJ	150 UJ	170 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
3-Nitroaniline	NL	µg/kg	320 U	320 UJ	390 U	280 U	330 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	320 U	320 UJ	390 U	280 U	330 U
4-Bromophenyl-phenylether	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
4-Chloro-3-methylphenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
4-Chloroaniline	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
4-Chlorophenyl-phenylether	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
4-Methylphenol	NL	µg/kg	160 U	170 UJ	43 J	150 U	170 U
4-Nitroaniline	NL	µg/kg	320 U	320 UJ	390 U	280 U	330 U
4-Nitrophenol	NL	µg/kg	320 U	320 UJ	390 U	280 U	330 U
Acenaphthene	NL	µg/kg	3.2 U	6.6 J	6.9	2.9	4
Acenaphthylene	NL	µg/kg	3.2 U	4.8 J	8	3.3	7.2
Acetophenone	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Anthracene	845	µg/kg	11	12 J	13	6.2	11
Atrazine	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Benzaldehyde	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Benzo(a)anthracene	1050	µg/kg	34	24 J	26	11	22
Benzo(a)pyrene	1450	µg/kg	37	31 J	23	11	17

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-75	LMR11-75	LMR11-76	LMR11-76	LMR11-76
		Field Sample ID	LMR11-75-048FS	LMR11-75-080	LMR11-76-006	LMR11-76-024	LMR11-76-048
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 48	48- 80	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	47	31 J	25	12	18
Benzo(g,h,i)perylene	NL	µg/kg	13	10 J	9.2	4.4	7.5
Benzo(k)fluoranthene	NL	µg/kg	20	11 J	12	4.6	6.6
Bis(2-chloroethoxy)methane	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Bis(2-chloroethyl)ether	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Butylbenzylphthalate	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Caprolactam	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Carbazole	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Chrysene	1290	µg/kg	33	25 J	27	13	25
Dibenzo(a,h)anthracene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Dibenzofuran	NL	µg/kg	7.1	5.1 J	4.1	2.8 U	3.3 U
Diethylphthalate	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Dimethylphthalate	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Di-n-butylphthalate	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Di-n-octylphthalate	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Fluoranthene	2230	µg/kg	58	46 J	42	23	36
Fluorene	536	µg/kg	3.2 U	6.2 J	9.1	3.8	6.2
Hexachlorobenzene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Hexachlorobutadiene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Hexachlorocyclopentadiene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Hexachloroethane	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	20	15 J	11	5.6	9.4
Isophorone	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Naphthalene	561	µg/kg	4.9	7.9 J	25	5.9	10
Nitrobenzene	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
N-Nitroso-di-n-propylamine	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
N-Nitrosodiphenylamine	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Pentachlorophenol	NL	µg/kg	19 UJ	6.5 UJ	16 U	280 UJ	13 U
Phenanthrene	1170	µg/kg	24	37 J	42	26	44
Phenol	NL	µg/kg	160 U	170 UJ	200 U	150 U	170 U
Pyrene	1520	µg/kg	46	42 J	44	24	40
Total PAH 17	22800	µg/kg	361.4	318.5	344.3	159.5	269.45
TOC	NL	mg/kg	26,400	24,200	29,100	13,900	23,300

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-76	LMR11-76	LMR11-76	LMR11-77	LMR11-77
		Field Sample ID	LMR11-76-072	LMR11-76-096	LMR11-76-120	LMR11-77-006	LMR11-77-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,4,5-Trichlorophenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,4,6-Trichlorophenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,4-Dichlorophenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,4-Dimethylphenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,4-Dinitrophenol	NL	µg/kg	310 U	330 U	310 U	410 UJ	290 UJ
2,4-Dinitrotoluene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2,6-Dinitrotoluene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2-Chloronaphthalene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2-Chlorophenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2-Methylnaphthalene	NL	µg/kg	3.7	4.2	3.1 U	4.1 UJ	3.3 J
2-Methylphenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
2-Nitroaniline	NL	µg/kg	310 U	330 U	310 U	410 UJ	290 UJ
2-Nitrophenol	NL	µg/kg	160 UJ	170 UJ	160 UJ	210 UJ	150 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
3-Nitroaniline	NL	µg/kg	310 U	330 U	310 U	410 UJ	290 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	310 U	330 U	310 U	410 UJ	290 UJ
4-Bromophenyl-phenylether	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
4-Chloro-3-methylphenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
4-Chloroaniline	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
4-Methylphenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
4-Nitroaniline	NL	µg/kg	310 U	330 U	310 U	410 UJ	290 UJ
4-Nitrophenol	NL	µg/kg	310 U	330 U	310 U	410 UJ	290 UJ
Acenaphthene	NL	µg/kg	7.7	6.4	3.7	4.1 UJ	2.9 UJ
Acenaphthylene	NL	µg/kg	3.1 U	4.8	3.3	4.1 UJ	2.9 UJ
Acetophenone	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Anthracene	845	µg/kg	25	12	6.7	4.1 UJ	5 J
Atrazine	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Benzaldehyde	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Benzo(a)anthracene	1050	µg/kg	35	14	11	5.1 J	15 J
Benzo(a)pyrene	1450	µg/kg	24	14	11	9 J	19 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-76	LMR11-76	LMR11-76	LMR11-77	LMR11-77
		Field Sample ID	LMR11-76-072	LMR11-76-096	LMR11-76-120	LMR11-77-006	LMR11-77-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	27	14	11	8.1 J	21 J
Benzo(g,h,i)perylene	NL	µg/kg	7.7	5	4.4	4.6 J	12 J
Benzo(k)fluoranthene	NL	µg/kg	10	5.4	4.8	4.1 UJ	11 J
Bis(2-chloroethoxy)methane	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Butylbenzylphthalate	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Caprolactam	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Carbazole	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Chrysene	1290	µg/kg	31	14	13	6 J	15 J
Dibenzo(a,h)anthracene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Dibenzofuran	NL	µg/kg	3.5	3.3 U	3.1 U	4.1 UJ	2.9 UJ
Diethylphthalate	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Dimethylphthalate	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Di-n-butylphthalate	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Di-n-octylphthalate	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Fluoranthene	2230	µg/kg	90	33	24	9.4 J	26 J
Fluorene	536	µg/kg	12	9.3	3.6	4.1 UJ	2.9 UJ
Hexachlorobenzene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Hexachlorobutadiene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Hexachlorocyclopentadiene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Hexachloroethane	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	11	6.6	5.6	4.1 UJ	10 J
Isophorone	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Naphthalene	561	µg/kg	7	7.3	8.1	4.1 UJ	6.5 J
Nitrobenzene	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
N-Nitrosodiphenylamine	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Pentachlorophenol	NL	µg/kg	32 U	13 U	310 UJ	8.4 UJ	5.8 UJ
Phenanthrene	1170	µg/kg	99	39	20	6.6 J	18 J
Phenol	NL	µg/kg	160 U	170 U	160 U	210 UJ	150 UJ
Pyrene	1520	µg/kg	81	32	25	12 J	28 J
Total PAH 17	22800	µg/kg	476.15	222.65	158.3	79.25	195.6
TOC	NL	mg/kg	23,600	22,400	24,000	24,800	30,200

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-77	LMR11-77	LMR11-77	LMR11-78	LMR11-79
		Field Sample ID	LMR11-77-048	LMR11-77-072	LMR11-77-120	LMR11-78-014	LMR11-79-006
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/4/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 120	0- 14	0- 6
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,4,5-Trichlorophenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,4,6-Trichlorophenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,4-Dichlorophenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,4-Dimethylphenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,4-Dinitrophenol	NL	µg/kg	280 UJ	310 UJ	310 UJ	240 U	370 U
2,4-Dinitrotoluene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2,6-Dinitrotoluene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2-Chloronaphthalene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2-Chlorophenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2-Methylnaphthalene	NL	µg/kg	11 J	17 J	6.4 J	2.4 U	4
2-Methylphenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
2-Nitroaniline	NL	µg/kg	280 UJ	310 UJ	310 UJ	240 U	370 U
2-Nitrophenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
3,3'-Dichlorobenzidine	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
3-Nitroaniline	NL	µg/kg	280 UJ	310 UJ	310 UJ	240 U	370 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	280 UJ	310 UJ	310 UJ	240 U	370 U
4-Bromophenyl-phenylether	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
4-Chloro-3-methylphenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
4-Chloroaniline	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
4-Chlorophenyl-phenylether	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
4-Methylphenol	NL	µg/kg	36 J	160 UJ	160 UJ	130 U	78 J
4-Nitroaniline	NL	µg/kg	280 UJ	310 UJ	310 UJ	240 U	370 U
4-Nitrophenol	NL	µg/kg	280 UJ	310 UJ	310 UJ	240 U	370 U
Acenaphthene	NL	µg/kg	10 J	4.9 J	6.6 J	2.4 U	3.7 U
Acenaphthylene	NL	µg/kg	9 J	6.4 J	5.9 J	2.4 U	3.7 U
Acetophenone	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Anthracene	845	µg/kg	41 J	18 J	15 J	2.4 U	5.4
Atrazine	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Benzaldehyde	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Benzo(a)anthracene	1050	µg/kg	83 J	47 J	28 J	2.4 U	11
Benzo(a)pyrene	1450	µg/kg	78 J	47 J	28 J	2.4 U	13

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-77	LMR11-77	LMR11-77	LMR11-78	LMR11-79
		Field Sample ID	LMR11-77-048	LMR11-77-072	LMR11-77-120	LMR11-78-014	LMR11-79-006
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/4/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 120	0- 14	0- 6
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	85 J	56 J	36 J	2.4 U	15
Benzo(g,h,i)perylene	NL	µg/kg	47 J	31 J	11 J	2.4 U	5
Benzo(k)fluoranthene	NL	µg/kg	55 J	29 J	16 J	2.4 U	5.8
Bis(2-chloroethoxy)methane	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Bis(2-chloroethyl)ether	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Butylbenzylphthalate	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Caprolactam	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Carbazole	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Chrysene	1290	µg/kg	87 J	57 J	31 J	2.4 U	12
Dibenzo(a,h)anthracene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Dibenzofuran	NL	µg/kg	16 J	7.5 J	5 J	2.4 U	3.7 U
Diethylphthalate	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Dimethylphthalate	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Di-n-butylphthalate	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Di-n-octylphthalate	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Fluoranthene	2230	µg/kg	150 J	85 J	67 J	3.4	23
Fluorene	536	µg/kg	13 J	7 J	9.5 J	2.4 U	3.7 U
Hexachlorobenzene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Hexachlorobutadiene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Hexachlorocyclopentadiene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Hexachloroethane	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	41 J	27 J	15 J	2.4 U	6.8
Isophorone	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Naphthalene	561	µg/kg	16 J	20 J	24 J	2.4 U	12
Nitrobenzene	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
N-Nitroso-di-n-propylamine	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
N-Nitrosodiphenylamine	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Pentachlorophenol	NL	µg/kg	5.8 UJ	6.4 UJ	6.3 UJ	240 U	7.6 U
Phenanthrene	1170	µg/kg	110 J	68 J	47 J	2.4 U	18
Phenol	NL	µg/kg	150 UJ	160 UJ	160 UJ	130 U	190 U
Pyrene	1520	µg/kg	150 J	100 J	61 J	3.3	21
Total PAH 17	22800	µg/kg	1,002	627.8	412.4	24.7	159.4
TOC	NL	mg/kg	31,300	41,500	35,400	14,700	29,400

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-79	LMR11-79	LMR11-79	LMR11-80	LMR11-80
		Field Sample ID	LMR11-79-024	LMR11-79-024FS	LMR11-79-054	LMR11-80-006	LMR11-80-024
		Sample Date	8/4/2011	8/4/2011	8/4/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	6- 24	6- 24	24- 54	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,3,4,6-Tetrachlorophenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,4,5-Trichlorophenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,4,6-Trichlorophenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,4-Dichlorophenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,4-Dimethylphenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,4-Dinitrophenol	NL	µg/kg	350 U	350 U	340 U	290 UJ	290 UJ
2,4-Dinitrotoluene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2,6-Dinitrotoluene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2-Chloronaphthalene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2-Chlorophenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2-Methylnaphthalene	NL	µg/kg	6	8.7	9.1	3.6 J	4.1 J
2-Methylphenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
2-Nitroaniline	NL	µg/kg	350 U	350 U	340 U	290 UJ	290 UJ
2-Nitrophenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
3-Nitroaniline	NL	µg/kg	350 U	350 U	340 U	290 UJ	290 UJ
4,6-Dinitro-2-methylphenol	NL	µg/kg	350 U	350 U	340 U	290 UJ	290 UJ
4-Bromophenyl-phenylether	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
4-Chloro-3-methylphenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
4-Chloroaniline	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
4-Chlorophenyl-phenylether	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
4-Methylphenol	NL	µg/kg	70 J	75 J	36 J	30 J	150 UJ
4-Nitroaniline	NL	µg/kg	350 U	350 U	340 U	290 UJ	290 UJ
4-Nitrophenol	NL	µg/kg	350 U	350 U	340 U	290 UJ	290 UJ
Acenaphthene	NL	µg/kg	3.5 U	4.8	5.7	2.9 UJ	5.9 J
Acenaphthylene	NL	µg/kg	6.5	8.3	12	3.9 J	3.5 J
Acetophenone	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Anthracene	845	µg/kg	8.8	13	18	6.9 J	21 J
Atrazine	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Benzaldehyde	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Benzo(a)anthracene	1050	µg/kg	22	34	37	24 J	47 J
Benzo(a)pyrene	1450	µg/kg	29	38	41	28 J	40 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-79	LMR11-79	LMR11-79	LMR11-80	LMR11-80
		Field Sample ID	LMR11-79-024	LMR11-79-024FS	LMR11-79-054	LMR11-80-006	LMR11-80-024
		Sample Date	8/4/2011	8/4/2011	8/4/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	6- 24	6- 24	24- 54	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	33	46	51	38 J	45 J
Benzo(g,h,i)perylene	NL	µg/kg	12	17	19	11 J	25 J
Benzo(k)fluoranthene	NL	µg/kg	19	23	21	14 J	25 J
Bis(2-chloroethoxy)methane	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Bis(2-chloroethyl)ether	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Bis(2-ethylhexyl)phthalate	NL	µg/kg	120 J	180 U	170 U	150 UJ	150 UJ
Butylbenzylphthalate	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Caprolactam	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Carbazole	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Chrysene	1290	µg/kg	29	40	42	24 J	43 J
Dibenzo(a,h)anthracene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Dibenzofuran	NL	µg/kg	4.2	6.7	7.4	5.3 J	6.3 J
Diethylphthalate	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Dimethylphthalate	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Di-n-butylphthalate	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Di-n-octylphthalate	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Fluoranthene	2230	µg/kg	51	69	71	46 J	81 J
Fluorene	536	µg/kg	5.6	8.3	9.2	2.9 UJ	8.6 J
Hexachlorobenzene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Hexachlorobutadiene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Hexachlorocyclopentadiene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Hexachloroethane	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Indeno(1,2,3-cd)pyrene	NL	µg/kg	16	23	26	17 J	23 J
Isophorone	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Naphthalene	561	µg/kg	18	26	21	6.3 J	8 J
Nitrobenzene	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
N-Nitroso-di-n-propylamine	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
N-Nitrosodiphenylamine	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Pentachlorophenol	NL	µg/kg	7.1 U	7.2 U	6.9 U	6 UJ	5.8 UJ
Phenanthrene	1170	µg/kg	31	47	53	22 J	77 J
Phenol	NL	µg/kg	180 U	180 U	170 U	150 UJ	150 UJ
Pyrene	1520	µg/kg	43	59	63	40 J	86 J
Total PAH 17	22800	µg/kg	335.85	471.8	506.4	292.9	549.4
TOC	NL	mg/kg	27,700	34,300	25,500	32,400	24,600

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-80	LMR11-81	LMR11-81	LMR11-82	LMR11-82
		Field Sample ID	LMR11-80-056	LMR11-81-006	LMR11-81-019	LMR11-82-006	LMR11-82-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 56	0- 6	6- 19	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,4,5-Trichlorophenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,4,6-Trichlorophenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,4-Dichlorophenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,4-Dimethylphenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,4-Dinitrophenol	NL	µg/kg	260 UJ	260 U	220 U	330 U	250 U
2,4-Dinitrotoluene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2,6-Dinitrotoluene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2-Chloronaphthalene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2-Chlorophenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2-Methylnaphthalene	NL	µg/kg	2.6 UJ	2.6 U	2.2 U	3.3 U	2.5 U
2-Methylphenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
2-Nitroaniline	NL	µg/kg	260 UJ	260 U	220 U	330 U	250 U
2-Nitrophenol	NL	µg/kg	130 UJ	130 UJ	110 UJ	170 U	130 U
3,3'-Dichlorobenzidine	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
3-Nitroaniline	NL	µg/kg	260 UJ	260 U	220 U	330 U	250 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	260 UJ	260 U	220 U	330 U	250 U
4-Bromophenyl-phenylether	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
4-Chloro-3-methylphenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
4-Chloroaniline	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
4-Chlorophenyl-phenylether	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
4-Methylphenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
4-Nitroaniline	NL	µg/kg	260 UJ	260 U	220 U	330 U	250 U
4-Nitrophenol	NL	µg/kg	260 UJ	260 U	220 U	330 U	250 U
Acenaphthene	NL	µg/kg	2.6 UJ	2.6 U	2.2 U	7.5	2.5 U
Acenaphthylene	NL	µg/kg	2.6 UJ	2.6 U	2.2 U	3.8	2.5 U
Acetophenone	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Anthracene	845	µg/kg	4.7 J	2.6 U	3.6	21	2.5 U
Atrazine	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Benzaldehyde	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Benzo(a)anthracene	1050	µg/kg	17 J	2.6 U	5.3	45	5.2
Benzo(a)pyrene	1450	µg/kg	20 J	2.6 U	2.8	48	7.4

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-80	LMR11-81	LMR11-81	LMR11-82	LMR11-82
		Field Sample ID	LMR11-80-056	LMR11-81-006	LMR11-81-019	LMR11-82-006	LMR11-82-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24-56	0-6	6-19	0-6	6-24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	21 J	2.6 U	4.1	63	11
Benzo(g,h,i)perylene	NL	µg/kg	11 J	2.6 U	2.2 U	15	3.1
Benzo(k)fluoranthene	NL	µg/kg	8 J	2.6 U	2.2 U	24	3.9
Bis(2-chloroethoxy)methane	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Bis(2-chloroethyl)ether	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Butylbenzylphthalate	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Caprolactam	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Carbazole	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Chrysene	1290	µg/kg	15 J	2.6 U	6.4	42	6.1
Dibenzo(a,h)anthracene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Dibenzofuran	NL	µg/kg	2.6 UJ	2.6 U	2.2 U	8.3	2.5 U
Diethylphthalate	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Dimethylphthalate	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Di-n-butylphthalate	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Di-n-octylphthalate	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Fluoranthene	2230	µg/kg	20 J	2.6 U	11	84	12
Fluorene	536	µg/kg	2.6 UJ	2.6 U	2.2 U	4.3	2.5 U
Hexachlorobenzene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Hexachlorobutadiene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Hexachlorocyclopentadiene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Hexachloroethane	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	9.4 J	2.6 U	2.2 U	24	4.7
Isophorone	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Naphthalene	561	µg/kg	3.3 J	2.6 U	2.2 U	8.5	2.5 U
Nitrobenzene	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
N-Nitroso-di-n-propylamine	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
N-Nitrosodiphenylamine	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Pentachlorophenol	NL	µg/kg	5.3 UJ	260 UJ	220 UJ	27 UJ	250 U
Phenanthrene	1170	µg/kg	8.5 J	2.6 U	6.7	41	5.3
Phenol	NL	µg/kg	130 UJ	130 U	110 U	170 U	130 U
Pyrene	1520	µg/kg	29 J	3.8	17	65	11
Total PAH 17	22800	µg/kg	173.4	24.6	66.8	506.05	78.45
TOC	NL	mg/kg	11,700	19,400	10,800	16,200	21,700

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-82	LMR11-83	LMR11-83	LMR11-83	LMR11-83
		Field Sample ID	LMR11-82-055	LMR11-83-006	LMR11-83-024	LMR11-83-048	LMR11-83-072
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 55	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,4,5-Trichlorophenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,4,6-Trichlorophenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,4-Dichlorophenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,4-Dimethylphenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,4-Dinitrophenol	NL	µg/kg	220 U	340 U	320 U	310 U	280 U
2,4-Dinitrotoluene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2,6-Dinitrotoluene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2-Chloronaphthalene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2-Chlorophenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2-Methylnaphthalene	NL	µg/kg	2.2 U	3.4 U	4.5	3.7	2.8 U
2-Methylphenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
2-Nitroaniline	NL	µg/kg	220 U	340 U	320 U	310 U	280 U
2-Nitrophenol	NL	µg/kg	110 U	180 UJ	160 U	160 UJ	150 U
3,3'-Dichlorobenzidine	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
3-Nitroaniline	NL	µg/kg	220 U	340 U	320 U	310 U	280 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	220 U	340 U	320 U	310 U	280 U
4-Bromophenyl-phenylether	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
4-Chloro-3-methylphenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
4-Chloroaniline	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
4-Chlorophenyl-phenylether	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
4-Methylphenol	NL	µg/kg	110 U	47 J	69 J	160 U	34 J
4-Nitroaniline	NL	µg/kg	220 U	340 U	320 U	310 U	280 U
4-Nitrophenol	NL	µg/kg	220 U	340 U	320 U	310 U	280 U
Acenaphthene	NL	µg/kg	2.2 U	3.4 U	10	7.5	2.8 U
Acenaphthylene	NL	µg/kg	2.2 U	3.4 U	5.1	3.1 U	2.8 U
Acetophenone	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Anthracene	845	µg/kg	2.2 U	3.6	48	23	2.8 U
Atrazine	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Benzaldehyde	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Benzo(a)anthracene	1050	µg/kg	2.2 U	6.1	99	39	4.9
Benzo(a)pyrene	1450	µg/kg	2.2 U	6.2	76	34	4.5

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-82	LMR11-83	LMR11-83	LMR11-83	LMR11-83
		Field Sample ID	LMR11-82-055	LMR11-83-006	LMR11-83-024	LMR11-83-048	LMR11-83-072
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 55	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	2.2 U	7.6	94	40	4.1
Benzo(g,h,i)perylene	NL	µg/kg	2.2 U	3.4 U	16	12	2.8 U
Benzo(k)fluoranthene	NL	µg/kg	2.2 U	3.4 U	20	16	2.8 U
Bis(2-chloroethoxy)methane	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Bis(2-chloroethyl)ether	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	110 U	180 U	160 U	59 J	150 U
Butylbenzylphthalate	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Caprolactam	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Carbazole	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Chrysene	1290	µg/kg	2.2 U	7.2	110	39	6.5
Dibenzo(a,h)anthracene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Dibenzofuran	NL	µg/kg	2.2 U	3.4 U	9.7	3.1 U	2.8 U
Diethylphthalate	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Dimethylphthalate	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Di-n-butylphthalate	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Di-n-octylphthalate	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Fluoranthene	2230	µg/kg	2.6	13	170	69	9.1
Fluorene	536	µg/kg	2.2 U	3.4 U	14	12	2.8 U
Hexachlorobenzene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Hexachlorobutadiene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Hexachlorocyclopentadiene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Hexachloroethane	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	2.2 U	4.1	23	16	2.8 U
Isophorone	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Naphthalene	561	µg/kg	2.2 U	10	15	6.8	6.4
Nitrobenzene	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
N-Nitroso-di-n-propylamine	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
N-Nitrosodiphenylamine	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Pentachlorophenol	NL	µg/kg	4.5 UJ	340 UJ	65 U	6.3 U	5.8 U
Phenanthrene	1170	µg/kg	3	12	130	67	7.5
Phenol	NL	µg/kg	110 U	180 U	160 U	160 U	150 U
Pyrene	1520	µg/kg	2.9	13	150	65	11
Total PAH 17	22800	µg/kg	23.9	94.7	994.3	453.1	66.6
TOC	NL	mg/kg	27,800	22,700	24,800	38,000	18,500

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-83	LMR11-84	LMR11-84	LMR11-84	LMR11-84
		Field Sample ID	LMR11-83-087	LMR11-84-006	LMR11-84-024	LMR11-84-048	LMR11-84-072
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	72- 87	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,4,5-Trichlorophenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,4,6-Trichlorophenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,4-Dichlorophenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,4-Dimethylphenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,4-Dinitrophenol	NL	µg/kg	250 U	370 U	360 U	230 U	320 U
2,4-Dinitrotoluene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2,6-Dinitrotoluene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2-Chloronaphthalene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2-Chlorophenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2-Methylnaphthalene	NL	µg/kg	2.5 U	3.7 U	200	42	230
2-Methylphenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
2-Nitroaniline	NL	µg/kg	250 U	370 U	360 U	230 U	320 U
2-Nitrophenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
3,3'-Dichlorobenzidine	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
3-Nitroaniline	NL	µg/kg	250 U	370 U	360 U	230 U	320 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	250 U	370 U	360 U	230 U	320 U
4-Bromophenyl-phenylether	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
4-Chloro-3-methylphenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
4-Chloroaniline	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
4-Chlorophenyl-phenylether	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
4-Methylphenol	NL	µg/kg	130 U	64 J	38 J	36 J	53 J
4-Nitroaniline	NL	µg/kg	250 U	370 U	360 U	230 U	320 U
4-Nitrophenol	NL	µg/kg	250 U	370 U	360 U	230 U	320 U
Acenaphthene	NL	µg/kg	3	3.7 U	25	5.4	8.4
Acenaphthylene	NL	µg/kg	2.7	3.7 U	9.9	3.5	4.9
Acetophenone	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Anthracene	845	µg/kg	5.3	3.7 U	34	11	16
Atrazine	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Benzaldehyde	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Benzo(a)anthracene	1050	µg/kg	9.3	3.8	37	25	72
Benzo(a)pyrene	1450	µg/kg	14	5.8	32	29	61

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-83	LMR11-84	LMR11-84	LMR11-84	LMR11-84
		Field Sample ID	LMR11-83-087	LMR11-84-006	LMR11-84-024	LMR11-84-048	LMR11-84-072
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	72- 87	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	14	9.4	48	42	96
Benzo(g,h,i)perylene	NL	µg/kg	5.8	3.7 U	19	11	19
Benzo(k)fluoranthene	NL	µg/kg	6.5	3.7 U	22	16	29
Bis(2-chloroethoxy)methane	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Bis(2-chloroethyl)ether	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Butylbenzylphthalate	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Caprolactam	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Carbazole	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Chrysene	1290	µg/kg	11	5.4	44	32	94
Dibenzo(a,h)anthracene	NL	µg/kg	130 U	190 U	190 U	29 J	160 U
Dibenzofuran	NL	µg/kg	2.5 U	3.7 U	9.9	5.5	11
Diethylphthalate	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Dimethylphthalate	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Di-n-butylphthalate	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Di-n-octylphthalate	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Fluoranthene	2230	µg/kg	19	11	88	72	130
Fluorene	536	µg/kg	3	3.7 U	23	6.7	13
Hexachlorobenzene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Hexachlorobutadiene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Hexachlorocyclopentadiene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Hexachloroethane	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	7.2	3.7 U	25	17	25
Isophorone	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Naphthalene	561	µg/kg	6.5	3.7 U	110	42	160
Nitrobenzene	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
N-Nitroso-di-n-propylamine	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
N-Nitrosodiphenylamine	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Pentachlorophenol	NL	µg/kg	5.1 U	370 U	59 UJ	24 UJ	65 UJ
Phenanthrene	1170	µg/kg	16	6.6	130	79	150
Phenol	NL	µg/kg	130 U	190 U	190 U	120 U	160 U
Pyrene	1520	µg/kg	20	10	74	59	110
Total PAH 17	22800	µg/kg	145.8	70.5	930.8	498.1	1,229.30
TOC	NL	mg/kg	9,430 J	23,900	34,100	21,600	26,900 J

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-84	LMR11-84	LMR11-84	LMR11-85	LMR11-85
		Field Sample ID	LMR11-84-072DP	LMR11-84-096	LMR11-84-115	LMR11-85-006	LMR11-85-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1'-Biphenyl	NL	µg/kg	160 U	150 U	31 J	180 U	170 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,4,5-Trichlorophenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,4,6-Trichlorophenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,4-Dichlorophenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,4-Dimethylphenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,4-Dinitrophenol	NL	µg/kg	310 U	300 U	290 U	340 U	320 U
2,4-Dinitrotoluene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2,6-Dinitrotoluene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2-Chloronaphthalene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2-Chlorophenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
2-Methylnaphthalene	NL	µg/kg	3.1 U	170	490	4.5	3.9
2-Methylphenol	NL	µg/kg	160 U	150 U	51 J	180 U	170 U
2-Nitroaniline	NL	µg/kg	310 U	300 U	290 U	340 U	320 U
2-Nitrophenol	NL	µg/kg	160 U	150 U	150 U	180 UJ	170 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
3-Nitroaniline	NL	µg/kg	310 U	300 U	290 U	340 U	320 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	310 U	300 U	290 U	340 U	320 U
4-Bromophenyl-phenylether	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
4-Chloro-3-methylphenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
4-Chloroaniline	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
4-Chlorophenyl-phenylether	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
4-Methylphenol	NL	µg/kg	64 J	120 J	95 J	95 J	40 J
4-Nitroaniline	NL	µg/kg	310 U	300 U	290 U	340 U	320 U
4-Nitrophenol	NL	µg/kg	310 U	300 U	290 U	340 U	320 U
Acenaphthene	NL	µg/kg	3.1 U	9	19	3.4 U	3.2 U
Acenaphthylene	NL	µg/kg	3.1 U	3.4	9.3	3.9	3.2 U
Acetophenone	NL	µg/kg	160 U	150 U	62 J	180 U	170 U
Anthracene	845	µg/kg	3.1 U	26	29	9.4	3.2 U
Atrazine	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Benzaldehyde	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Benzo(a)anthracene	1050	µg/kg	3.1 U	62	95	29	4.5
Benzo(a)pyrene	1450	µg/kg	3.1 U	66	99	31	4

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-84	LMR11-84	LMR11-84	LMR11-85	LMR11-85
		Field Sample ID	LMR11-84-072DP	LMR11-84-096	LMR11-84-115	LMR11-85-006	LMR11-85-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
Benzo(b)fluoranthene	NL	µg/kg	3.1 U	90	130	31	5.1
Benzo(g,h,i)perylene	NL	µg/kg	3.1 U	28	49	13	3.2 U
Benzo(k)fluoranthene	NL	µg/kg	3.1 U	33	47	15	3.2 U
Bis(2-chloroethoxy)methane	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Bis(2-chloroethyl)ether	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Butylbenzylphthalate	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Caprolactam	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Carbazole	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Chrysene	1290	µg/kg	3.1 U	65	110	29	5.3
Dibenzo(a,h)anthracene	NL	µg/kg	33 J	150 U	92 J	180 U	170 U
Dibenzofuran	NL	µg/kg	3.1 U	16	29 U	3.4 U	3.2 U
Diethylphthalate	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Dimethylphthalate	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Di-n-butylphthalate	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Di-n-octylphthalate	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Fluoranthene	2230	µg/kg	3.1 U	120	160	50	8.3
Fluorene	536	µg/kg	3.1 U	14	41	4	3.2 U
Hexachlorobenzene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Hexachlorobutadiene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Hexachlorocyclopentadiene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Hexachloroethane	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.1 U	35	53	15	3.2 U
Isophorone	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Naphthalene	561	µg/kg	3.1 U	120	360	13	10
Nitrobenzene	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
N-Nitroso-di-n-propylamine	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
N-Nitrosodiphenylamine	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Pentachlorophenol	NL	µg/kg	310 U	60 UJ	59 UJ	28 U	320 UJ
Phenanthrene	1170	µg/kg	3.1 U	130	240	32	6.6
Phenol	NL	µg/kg	160 U	150 U	150 U	180 U	170 U
Pyrene	1520	µg/kg	3.1 U	90	140	52	8.7
Total PAH 17	22800	µg/kg	26.35	1,077	2,086	335.2	69.2
TOC	NL	mg/kg	169,000 J	74,000	52,700	20,400	17,000

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-85	LMR11-85
		Field Sample ID	LMR11-85-048	LMR11-85-074
		Sample Date	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 48	48- 74
Chemical Name	PEC ¹	Unit		
1,1'-Biphenyl	NL	µg/kg	190 U	150 U
1,2,4,5-Tetrachlorobenzene	NL	µg/kg	190 U	150 U
2,2'-Oxybis(1-chloropropane)	NL	µg/kg	190 U	150 U
2,3,4,6-Tetrachlorophenol	NL	µg/kg	190 U	150 U
2,4,5-Trichlorophenol	NL	µg/kg	190 U	150 U
2,4,6-Trichlorophenol	NL	µg/kg	190 U	150 U
2,4-Dichlorophenol	NL	µg/kg	190 U	150 U
2,4-Dimethylphenol	NL	µg/kg	190 U	150 U
2,4-Dinitrophenol	NL	µg/kg	370 U	290 U
2,4-Dinitrotoluene	NL	µg/kg	190 U	150 U
2,6-Dinitrotoluene	NL	µg/kg	190 U	150 U
2-Chloronaphthalene	NL	µg/kg	190 U	150 U
2-Chlorophenol	NL	µg/kg	190 U	150 U
2-Methylnaphthalene	NL	µg/kg	3.9	3.7
2-Methylphenol	NL	µg/kg	190 U	150 U
2-Nitroaniline	NL	µg/kg	370 U	290 U
2-Nitrophenol	NL	µg/kg	190 UJ	150 UJ
3,3'-Dichlorobenzidine	NL	µg/kg	190 U	150 U
3-Nitroaniline	NL	µg/kg	370 U	290 U
4,6-Dinitro-2-methylphenol	NL	µg/kg	370 U	290 U
4-Bromophenyl-phenylether	NL	µg/kg	190 U	150 U
4-Chloro-3-methylphenol	NL	µg/kg	190 U	150 U
4-Chloroaniline	NL	µg/kg	190 U	150 U
4-Chlorophenyl-phenylether	NL	µg/kg	190 U	150 U
4-Methylphenol	NL	µg/kg	190 U	150 U
4-Nitroaniline	NL	µg/kg	370 U	290 U
4-Nitrophenol	NL	µg/kg	370 U	290 U
Acenaphthene	NL	µg/kg	3.7 U	2.9 U
Acenaphthylene	NL	µg/kg	3.7 U	2.9 U
Acetophenone	NL	µg/kg	190 U	150 U
Anthracene	845	µg/kg	3.7 U	3.4
Atrazine	NL	µg/kg	190 U	150 U
Benzaldehyde	NL	µg/kg	190 U	150 U
Benzo(a)anthracene	1050	µg/kg	3.9	9.1
Benzo(a)pyrene	1450	µg/kg	3.7 U	13

Table B-1
Sediment Sample Analytical Results - SVOCs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-85	LMR11-85
		Field Sample ID	LMR11-85-048	LMR11-85-074
		Sample Date	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 48	48- 74
Chemical Name	PEC ¹	Unit		
Benzo(b)fluoranthene	NL	µg/kg	4.2	12
Benzo(g,h,i)perylene	NL	µg/kg	3.7 U	4.5
Benzo(k)fluoranthene	NL	µg/kg	3.7 U	5.1
Bis(2-chloroethoxy)methane	NL	µg/kg	190 U	150 U
Bis(2-chloroethyl)ether	NL	µg/kg	190 U	150 U
Bis(2-ethylhexyl)phthalate	NL	µg/kg	190 U	150 U
Butylbenzylphthalate	NL	µg/kg	190 U	150 U
Caprolactam	NL	µg/kg	190 U	150 U
Carbazole	NL	µg/kg	190 U	150 U
Chrysene	1290	µg/kg	4.7	9.5
Dibenzo(a,h)anthracene	NL	µg/kg	190 U	150 U
Dibenzofuran	NL	µg/kg	3.7 U	2.9 U
Diethylphthalate	NL	µg/kg	190 U	150 U
Dimethylphthalate	NL	µg/kg	190 U	150 U
Di-n-butylphthalate	NL	µg/kg	190 U	150 U
Di-n-octylphthalate	NL	µg/kg	190 U	150 U
Fluoranthene	2230	µg/kg	9.3	14
Fluorene	536	µg/kg	3.7 U	2.9 U
Hexachlorobenzene	NL	µg/kg	190 U	150 U
Hexachlorobutadiene	NL	µg/kg	190 U	150 U
Hexachlorocyclopentadiene	NL	µg/kg	190 U	150 U
Hexachloroethane	NL	µg/kg	190 U	150 U
Indeno(1,2,3-cd)pyrene	NL	µg/kg	3.7 U	5.4
Isophorone	NL	µg/kg	190 U	150 U
Naphthalene	561	µg/kg	11	6.7
Nitrobenzene	NL	µg/kg	190 U	150 U
N-Nitroso-di-n-propylamine	NL	µg/kg	190 U	150 U
N-Nitrosodiphenylamine	NL	µg/kg	190 U	150 U
Pentachlorophenol	NL	µg/kg	370 UJ	290 UJ
Phenanthrene	1170	µg/kg	8.6	9.6
Phenol	NL	µg/kg	190 U	150 U
Pyrene	1520	µg/kg	10	15 J
Total PAH 17	22800	µg/kg	72.25	116.8
TOC	NL	mg/kg	39,900	22,900

Notes and Abbreviations:

Result exceeds PEC

- % - Percent
- µg/kg - Microgram per kilogram
- DP - Duplicate
- FS - Field split
- ID - Identification
- in bss - Inches below sediment surface
- J - Estimated value
- mg/kg - Milligram per kilogram
- NL - Not Listed
- PAH - Polycyclic Aromatic Hydrocarbon
- PEC - Probable Effect Concentration
- TOC - Total Organic Carbon
- U - Not detected

¹ Consensus-based PEC values (2000)

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-01	LMR11-01	LMR11-01	LMR11-01	LMR11-02	LMR11-03	LMR11-03
		Field Sample ID	LMR11-01-006	LMR11-01-024	LMR11-01-048	LMR11-01-060	LMR11-02-006	LMR11-03-006	LMR11-03-024
		Sample Date	8/2/2011	8/5/2011	8/5/2011	8/5/2011	8/2/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 60	0- 6	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	20,700	20,600 J-	13,300 J-	6,140 J-	4,350	10,900	19,000
Antimony	NL	mg/kg	0.33 UJ	0.3 UJ	0.27 UJ	7.3 UJ	0.2 UJ	7.3 UJ	0.3 UJ
Arsenic	33	mg/kg	8.1	9.5 J-	6.1 J-	13.8 J-	2.7	6.3	8.5
Barium	NL	mg/kg	143	154 J-	95.6 J-	38.1 J-	27.4	79.6	124
Beryllium	NL	mg/kg	0.94	0.97 J-	0.023 UJ	0.022 UJ	0.017 U	0.022 U	0.86
Cadmium	4.98	mg/kg	1.6	1.9 J-	1.1 J-	0.013 UJ	0.011 U	1.1	1.8
Calcium	NL	mg/kg	42,100	35,100 J-	34,700 J-	44,500 J-	26,700	45,500	45,000
Chromium	111	mg/kg	30.4	32.1 J-	21.3 J-	11.7 J-	8	17.8	28.8
Cobalt	NL	mg/kg	10.7	11.4 J-	9 J-	10.3 J-	0.05 U	7.4	9.5
Copper	149	mg/kg	37.6	40.1 J-	23.7 J-	16 J-	6.6	24	34.4
Iron	NL	mg/kg	28,500	29,800 J-	19,800 J-	17,200 J-	7,560	17,200	25,400
Lead	128	mg/kg	23.7 J	35.4 J-	16.9 J-	10.7 J-	4.9 J	14.7 J	21.7
Magnesium	NL	mg/kg	12,700	10,200 J-	12,300 J-	19,700 J-	7,290	13,500	14,000
Manganese	NL	mg/kg	430	519 J-	358 J-	279 J-	149	326	423
Mercury	1.06	mg/kg	0.062 J	0.094 J-	0.11 J-	0.024 J-	0.017 J	0.044 J	0.07 J
Nickel	48.6	mg/kg	32.1	36.1 J-	25 J-	21.5 J-	8.3	19.2	29.5
Potassium	NL	mg/kg	3,720	2,920 J-	2,230 J-	1,110 J-	780	1,970	3,350
Selenium	NL	mg/kg	5.6 U	5 UJ	4.5 UJ	4.3 UJ	3.3 U	4.2 U	4.9 U
Silver	NL	mg/kg	0.051 U	0.28 J-	0.057 J-	1.2 UJ	0.95 U	0.039 U	0.21 J
Sodium	NL	mg/kg	1.9 U	1.7 UJ	1.5 UJ	1.5 UJ	1.1 U	1.5 U	1.7 UJ
Thallium	NL	mg/kg	0.22 U	0.2 UJ	0.18 UJ	0.17 UJ	0.13 U	0.17 U	0.2 U
Vanadium	NL	mg/kg	44.6	42.3 J-	31.5 J-	17.8 J-	12.2	27.2	44.7
Zinc	459	mg/kg	131 J	332 J-	73.2 J-	38.4 J-	27.9 J	75.7 J	117

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-03	LMR11-03	LMR11-04	LMR11-05	LMR11-05	LMR11-06	LMR11-06
		Field Sample ID	LMR11-03-048	LMR11-03-059	LMR11-04-006	LMR11-05-006	LMR11-05-018	LMR11-06-006	LMR11-06-024
		Sample Date	8/3/2011	8/3/2011	8/3/2011	8/4/2011	8/4/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	24- 48	48- 59	0- 6	0- 6	6- 18	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	20,400	19,900	5,620	10,100	22,200	17,400	24,700
Antimony	NL	mg/kg	0.28 UJ	0.3 UJ	0.2 UJ	0.26 UJ	0.28 UJ	0.49 J	0.39 UJ
Arsenic	33	mg/kg	9.3	8.8	3.6	9.5	11.8	8	9
Barium	NL	mg/kg	149	130	34.3	68.8	139	123	156
Beryllium	NL	mg/kg	0.97	0.89	0.017 U	0.022 U	1.2	0.88	1.1
Cadmium	4.98	mg/kg	2.2	2.6	0.01 U	1.1	2.5	1.4	2
Calcium	NL	mg/kg	42,700	37,600	31,500	204,000	40,900	42,000	38,500
Chromium	111	mg/kg	32	31.6	9.5	15.3	33	27	35
Cobalt	NL	mg/kg	11.4	9.8	0.049 U	0.064 U	11.7	9.8	11.6
Copper	149	mg/kg	37.4	33	8.2	21	35.4	34.3	40.2
Iron	NL	mg/kg	31,200	26,900	9,070	18,600	28,300	25,600	30,800
Lead	128	mg/kg	31.2	26.8	6 J	14.3	27.5	20.7 J	24.6
Magnesium	NL	mg/kg	11,800	11,100	9,300	9,200	12,300	12,600	12,000
Manganese	NL	mg/kg	641	510	185	868	457	436	439
Mercury	1.06	mg/kg	0.11 J	0.081 J	0.019 J	0.04 J	0.063 J	0.056 J	0.072 J
Nickel	48.6	mg/kg	35.1	31.7	10.2	20.3	34.8	28.5	35.5
Potassium	NL	mg/kg	2,880	3,200	1,040	1,850	3,980	3,190	4,480
Selenium	NL	mg/kg	4.7 U	5 U	3.3 U	4.3 U	4.6 U	6.2 U	6.5 U
Silver	NL	mg/kg	0.23 J	0.29 J	0.95 U	1.2 U	0.19 J	0.13 J	0.25 J
Sodium	NL	mg/kg	1.6 UJ	1.7 UJ	1.1 U	1.5 UJ	1.6 UJ	2.1 U	2.2 UJ
Thallium	NL	mg/kg	0.19 U	0.2 U	0.13 U	0.17 U	0.18 U	0.25 U	0.26 U
Vanadium	NL	mg/kg	44.3	45.6	14.7	25.5	48.8	39.4	53.8
Zinc	459	mg/kg	269	124	43 J	76.9	124	120 J	146

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-06	LMR11-07	LMR11-08	LMR11-08	LMR11-08	LMR11-10	LMR11-10
		Field Sample ID	LMR11-06-052	LMR11-07-006	LMR11-08-006	LMR11-08-024	LMR11-08-052	LMR11-10-006	LMR11-10-024
		Sample Date	8/3/2011	8/3/2011	8/3/2011	8/5/2011	8/5/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	24- 52	0- 6	0- 6	6- 24	24- 52	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	19,400	9,360	18,800	24,000 J-	22,600 J-	3,330	8,350
Antimony	NL	mg/kg	0.24 UJ	7.1 UJ	0.39 UJ	0.34 UJ	0.28 UJ	6.8 UJ	0.22 UJ
Arsenic	33	mg/kg	8.1	5.6	7.9	9.2 J-	9.3 J-	2.3 J	5.6 J
Barium	NL	mg/kg	133	63	130	156 J-	158 J-	0.07 U	65.5
Beryllium	NL	mg/kg	0.86	0.021 U	0.033 U	1 J-	1 J-	0.02 U	0.019 U
Cadmium	4.98	mg/kg	2.9	0.71	1.4	1.6 J-	1.7 J-	0.012 U	2
Calcium	NL	mg/kg	32,100	52,600	41,600	39,100 J-	35,700 J-	33,700	32,200
Chromium	111	mg/kg	34.6	15.2	27.9	33.8 J-	32.6 J-	7.1	16.2
Cobalt	NL	mg/kg	9.2	7	10.2	11.4 J-	11.4 J-	0.059 U	6.4
Copper	149	mg/kg	34.8	15.9	33.2	38.3 J-	38.3 J-	4.7	18.8
Iron	NL	mg/kg	24,900	14,900	26,300	29,900 J-	29,500 J-	6,710	13,600
Lead	128	mg/kg	33.8	10.2 J	19.8 J	25.2 J-	27.5 J-	4.7 J	14.8 J
Magnesium	NL	mg/kg	9,680	10,900	12,100	12,100 J-	10,800 J-	10,200	10,900
Manganese	NL	mg/kg	440	311	407	481 J-	521 J-	146	239
Mercury	1.06	mg/kg	0.073 J	0.038 J	0.056 J	0.074 J-	0.077 J-	0.011 J	0.038 J
Nickel	48.6	mg/kg	32.7	17.4	29.8	35.1 J-	35.6 J-	7.1	18.1
Potassium	NL	mg/kg	3,140	1,550	3,410	4,280 J-	3,560 J-	10.6 U	1160
Selenium	NL	mg/kg	4 U	4.1 U	6.4 U	5.6 UJ	4.7 UJ	4 U	3.6 U
Silver	NL	mg/kg	0.3 J	0.038 U	0.059 U	0.22 J-	0.2 J-	0.036 U	0.033 U
Sodium	NL	mg/kg	1.4 UJ	1.4 U	2.2 U	1.9 UJ	1.6 UJ	1.4 U	1.2 U
Thallium	NL	mg/kg	0.16 U	0.16 U	0.26 U	0.23 UJ	0.19 UJ	0.16 U	0.14 U
Vanadium	NL	mg/kg	41.4	21.9	41.9	51.5 J-	45.3 J-	10.8	19.5
Zinc	459	mg/kg	200	60.4 J	116 J	130 J-	153 J-	24.6	64

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-10	LMR11-11	LMR11-11	LMR11-11	LMR11-12	LMR11-13	LMR11-13
		Field Sample ID	LMR11-10-045	LMR11-11-006	LMR11-11-024	LMR11-11-037	LMR11-12-006	LMR11-13-006	LMR11-13-026
		Sample Date	8/4/2011	8/5/2011	8/5/2011	8/5/2011	8/3/2011	8/3/2011	8/3/2011
		Depth Interval (in bss)	24- 45	0- 6	6- 24	24- 37	0- 6	0- 6	6- 26
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	6,970	5,210 J-	6,050 J-	4,110 J-	16,000	17,500	13,800
Antimony	NL	mg/kg	0.21 UJ	0.28 UJ	0.2 UJ	7.4 UJ	11.4 UJ	0.24 UJ	0.23 UJ
Arsenic	33	mg/kg	5.1 J	3.8 J-	4.5 J-	3.6 J-	7.7	11.8 J	5.2 J
Barium	NL	mg/kg	45.8	31.3 J-	45.7 J-	29.7 J-	122	116	89.4
Beryllium	NL	mg/kg	0.018 U	0.024 UJ	0.017 UJ	0.022 UJ	0.034 U	0.84	0.65
Cadmium	4.98	mg/kg	0.68	0.014 UJ	0.66 J-	0.014 UJ	1.2	1.6	0.9
Calcium	NL	mg/kg	31,000	33,800 J-	33,600 J-	32,000 J-	45,300	40,600	35,000
Chromium	111	mg/kg	13.4	10 J-	11.3 J-	9.1 J-	24.6	25.5	19.9
Cobalt	NL	mg/kg	5.7	0.068 UJ	4.9 J-	0.064 UJ	10.3	10.1	8.8
Copper	149	mg/kg	12.3	8.5 J-	12.9 J-	9.6 J-	29.8	34.2	20.4
Iron	NL	mg/kg	11,500	8,500 J-	10,300 J-	8,240 J-	25,000	23,700	18,800
Lead	128	mg/kg	10.6 J	7.1 J-	15.9 J-	8 J-	17.6 J	34.6 J	15.3 J
Magnesium	NL	mg/kg	9,870	11,800 J-	9,940 J-	9,200 J-	11,600	12,400	12,400
Manganese	NL	mg/kg	226	167 J-	238 J-	176 J-	548	373	306
Mercury	1.06	mg/kg	0.036 J	0.017 J-	0.031 J-	0.032 J-	0.041 J	0.14	0.07 J
Nickel	48.6	mg/kg	14.3	10.5 J-	12.6 J-	11.6 J-	28.9	28.1	23.4
Potassium	NL	mg/kg	1,040	966 J-	1,030 J-	617 J-	2,680	2,960	2,370
Selenium	NL	mg/kg	3.4 U	4.6 UJ	3.3 UJ	4.3 UJ	6.7 U	4 U	3.8 U
Silver	NL	mg/kg	0.031 U	1.3 UJ	0.94 UJ	1.2 UJ	0.061 U	0.036 U	0.035 U
Sodium	NL	mg/kg	1.2 U	1.6 UJ	1.1 UJ	1.5 UJ	2.3 U	1.4 U	1.3 U
Thallium	NL	mg/kg	0.14 U	0.18 UJ	0.13 UJ	0.17 UJ	0.27 U	0.16 U	0.15 U
Vanadium	NL	mg/kg	18.9	14.7 J-	17.1 J-	12.8 J-	35.3	39.8	32.6
Zinc	459	mg/kg	48	37.5 J-	50 J-	34.7 J-	106 J	103	66.8

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-14	LMR11-14	LMR11-14	LMR11-15	LMR11-15	LMR11-15	LMR11-15
		Field Sample ID	LMR11-14-006	LMR11-14-024	LMR11-14-045	LMR11-15-006	LMR11-15-006-DP	LMR11-15-024	LMR11-15-024-DP
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 45	0- 6	0- 6	6- 24	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	4,560 J-	11,900 J-	9,120 J-	24,400	22,400	24,400	20,000
Antimony	NL	mg/kg	0.39 J-	7.6 UJ	0.32 J-	9.9 UJ	0.3 UJ	0.32 UJ	0.32 UJ
Arsenic	33	mg/kg	3.2 J-	6.8 J-	8.9 J-	8.6	8.4	9.3	7.9
Barium	NL	mg/kg	35.2 J-	87.1 J-	82.6 J-	159	138	152	114
Beryllium	NL	mg/kg	0.019 UJ	0.023 UJ	0.024 UJ	0.93	0.93	1.1	0.79
Cadmium	4.98	mg/kg	0.012 UJ	1.3 J-	3.1 J-	1.8	1.3	1.6	1.2
Calcium	NL	mg/kg	36,000 J-	36,800 J-	49,800 J-	33,600	37,300	36,200	32,700
Chromium	111	mg/kg	8.4 J-	20.3 J-	29.1 J-	32.3	31	33.9	27.3
Cobalt	NL	mg/kg	0.056 UJ	8 J-	7.4 J-	11.4	10.3 J	11.4 J	9.3 J
Copper	149	mg/kg	10.4 J-	25 J-	32.2 J-	34.8	31.3	36.5	27.4
Iron	NL	mg/kg	8,560 J-	18,200 J-	16,200 J-	29,500	26,100	30,600	24,000
Lead	128	mg/kg	6.6 J-	18.8 J-	30.8 J-	21.6	19 J	23.1 J	16.5 J
Magnesium	NL	mg/kg	10,500 J-	11,500 J-	13,500 J-	10,400	10,600	11,300	10,400
Manganese	NL	mg/kg	190 J-	325 J-	420 J-	512	442 J	536 J	427 J
Mercury	1.06	mg/kg	0.023 J-	0.059 J-	0.098 J-	0.063 J	0.057 J	0.051 J	0.046 J
Nickel	48.6	mg/kg	9.1 J-	22.8 J-	25.9 J-	34.6	29.6 J	34.5 J	27.2 J
Potassium	NL	mg/kg	849 J-	1,880 J-	1,460 J-	4,330	4,450	4,300	3,890
Selenium	NL	mg/kg	3.8 UJ	4.4 UJ	4.7 UJ	5.8 U	4.9 U	5.4 U	5.3 U
Silver	NL	mg/kg	1.1 UJ	0.083 J-	0.18 J-	0.053 U	0.045 U	0.049 U	0.049 U
Sodium	NL	mg/kg	1.3 UJ	1.5 UJ	1.6 UJ	2 UJ	1.7 U	1.8 U	1.8 U
Thallium	NL	mg/kg	0.15 UJ	0.18 UJ	0.19 UJ	0.23 U	0.2 U	0.22 U	0.21 U
Vanadium	NL	mg/kg	14.3 J-	28.1 J-	23 J-	47.1	47.8	50.1	43.7
Zinc	459	mg/kg	31 J-	81.5 J-	88.9 J-	129	106 J	130 J	95.9 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-15	LMR11-15	LMR11-15	LMR11-15	LMR11-16	LMR11-16	LMR11-16
		Field Sample ID	LMR11-15-048	LMR11-15-048-DP	LMR11-15-072	LMR11-15-104	LMR11-16-006	LMR11-16-024	LMR11-16-048
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 72	72- 104	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	17,600	22,500	11,300	12,500	24,000	27,100	25,900
Antimony	NL	mg/kg	0.24 UJ	0.27 UJ	0.28 UJ	0.27 UJ	11.3 UJ	0.33 UJ	0.34 UJ
Arsenic	33	mg/kg	10	8.9	9.9	11.3	10.7	11.6	16.4
Barium	NL	mg/kg	109	132	77.9	87.8	165	175	167
Beryllium	NL	mg/kg	0.76	0.9	0.024 U	0.023 U	0.96	1.1	0.97
Cadmium	4.98	mg/kg	1.5	1.4	1.3	1.5	2	2.1	2.1
Calcium	NL	mg/kg	55,400	35,600	77,200	64,700	31,600	31,100	36,200
Chromium	111	mg/kg	26.4	30.5	19.9	22	33.1	36.4	35.2
Cobalt	NL	mg/kg	8.9 J	10 J	8 J	8.8 J	12.4	12.6	11.6
Copper	149	mg/kg	30	38.4	26.6	30.4	37.7	39.6	38.2
Iron	NL	mg/kg	23,300	26,000	20,300	20,600	31,800	33,500	31,300
Lead	128	mg/kg	20.8 J	19.6 J	20.4 J	20.4 J	24.1	25.6	29.7
Magnesium	NL	mg/kg	15,600	10,800	24,500	19,700	10,800	11,000	11,100
Manganese	NL	mg/kg	503 J	447 J	511 J	467 J	496	521	550
Mercury	1.06	mg/kg	0.059 J	0.055 J	0.054 J	0.068 J	0.066 J	0.075 J	0.087 J
Nickel	48.6	mg/kg	26.3 J	29.5 J	22.8 J	25.2 J	37.6	38.9	36.3
Potassium	NL	mg/kg	3,170	4,120	1,940	2,300	3,790	4,570	4,360
Selenium	NL	mg/kg	3.9 U	4.4 U	4.7 U	4.5 U	6.6 U	5.5 U	5.6 U
Silver	NL	mg/kg	0.036 U	0.04 U	1.4 U	0.041 U	0.06 U	0.051 U	0.052 U
Sodium	NL	mg/kg	1.3 U	1.5 U	1.6 U	1.6 U	2.3 UJ	1.9 UJ	980 J
Thallium	NL	mg/kg	0.16 U	0.18 U	0.19 U	0.18 U	0.26 U	0.22 U	0.23 U
Vanadium	NL	mg/kg	40.3	47.2	29.8	34.8	46.4	53.9	52.5
Zinc	459	mg/kg	107 J	111 J	80.7 J	83.7 J	139	145	197

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-16	LMR11-17	LMR11-17	LMR11-18	LMR11-18	LMR11-18	LMR11-19
		Field Sample ID	LMR11-16-072	LMR11-17-006	LMR11-17-021	LMR11-18-006	LMR11-18-024	LMR11-18-048	LMR11-19-006
		Sample Date	8/9/2011	8/4/2011	8/4/2011	8/3/2011	8/5/2011	8/5/2011	8/3/2011
		Depth Interval (in bss)	48- 72	0- 6	6- 21	0- 6	6- 24	24- 48	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	12,100	3,020	3,880	9,300	8,820 J-	14,700 J-	13,100
Antimony	NL	mg/kg	0.32 UJ	6.2 UJ	0.21 UJ	0.34 UJ	8.2 UJ	9.4 UJ	0.5 J
Arsenic	33	mg/kg	63.2	3.4 J	3.4 J	5.1	7.4 J-	9.5 J-	6.2
Barium	NL	mg/kg	99.8	0.064 U	22.2	69.3	67.9 J-	129 J-	88.4
Beryllium	NL	mg/kg	0.028 U	0.019 U	0.018 U	0.03 U	0.025 UJ	0.028 UJ	0.027 U
Cadmium	4.98	mg/kg	2	0.011 U	0.011 U	0.018 U	1.1 J-	4.6 J-	0.92
Calcium	NL	mg/kg	35,600	30,500	48,700	39,000	39,300 J-	55,200 J-	33,300
Chromium	111	mg/kg	23.6	8.1	7.6	14.8	16.4 J-	44.9 J-	19.9
Cobalt	NL	mg/kg	8.1	0.053 U	0.053 U	0.085 U	7.5 J-	8.8 J-	8.1
Copper	149	mg/kg	27.1	2.8	6.2	18.7	20.9 J-	42.2 J-	19.6
Iron	NL	mg/kg	16,800	7,320	8,010	14,600	15,000 J-	21,000 J-	19,000
Lead	128	mg/kg	29	3.8 J	4.4 J	11.8 J	15.7 J-	40.4 J-	12.8 J
Magnesium	NL	mg/kg	9,970	9,860	14,500	11,000	10,900 J-	12,100 J-	9,710
Manganese	NL	mg/kg	328	148	230	290	294 J-	499 J-	345
Mercury	1.06	mg/kg	0.078 J	0.0052 J	0.0052 J	0.027 J	0.059 J-	0.12 J-	0.029 J
Nickel	48.6	mg/kg	23.1	7.2	8.9	16.5	20 J-	35.4 J-	21.4
Potassium	NL	mg/kg	2,070	415 J	676	1,850	1,360 J-	2,700 J-	2,380
Selenium	NL	mg/kg	0.53 J	3.6 U	3.5 U	5.7 U	4.8 UJ	5.5 UJ	0.49 J
Silver	NL	mg/kg	0.049 U	0.033 U	1 U	1.6 U	1.4 UJ	0.4 J-	0.098 J
Sodium	NL	mg/kg	1700 J	1.2 U	1.2 U	2 U	1.6 UJ	1.9 UJ	1.8 U
Thallium	NL	mg/kg	0.21 U	0.14 U	0.14 U	0.23 U	0.19 UJ	0.22 UJ	0.21 U
Vanadium	NL	mg/kg	31.5	10.4	11.9	24.4	22.6 J-	33.6 J-	29.9
Zinc	459	mg/kg	76.5	18.9	27.5	60.1 J	83.5 J-	126 J-	78.5 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-19	LMR11-20	LMR11-20	LMR11-20	LMR11-20	LMR11-20	LMR11-21
		Field Sample ID	LMR11-19-014	LMR11-20-006	LMR11-20-006FS	LMR11-20-024	LMR11-20-048	LMR11-20-060	LMR11-21-006
		Sample Date	8/3/2011	8/2/2011	8/2/2011	8/5/2011	8/5/2011	8/5/2011	8/3/2011
		Depth Interval (in bss)	6- 14	0- 6	0- 6	6- 24	24- 48	48- 60	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	6,540 J-	21,000	21,700	22,400 J-	27,800 J-	9,090 J-	11,000
Antimony	NL	mg/kg	0.25 UJ	11.4 UJ	0.43 UJ	0.7 J-	0.64 J-	0.38 J-	0.44 J
Arsenic	33	mg/kg	7.5 J-	8.8	9.1	9.6 J-	10.4 J-	8.7 J-	6.5
Barium	NL	mg/kg	48.3 J-	148	154	158 J-	178 J-	68.8 J-	79.6
Beryllium	NL	mg/kg	0.022 UJ	0.95	0.037 U	1 J-	1.2 J-	0.022 UJ	0.03 U
Cadmium	4.98	mg/kg	0.87 J-	1.6	1.7	1.6 J-	2.2 J-	1.6 J-	1.3
Calcium	NL	mg/kg	60,300 J-	34,600	35,600	38,700 J-	34,700 J-	45,900 J-	35,300
Chromium	111	mg/kg	14 J-	31	32.3	32.5 J-	40.2 J-	21.7 J-	17.7
Cobalt	NL	mg/kg	6.3 J-	11.3	11.5	11.8 J-	12.4 J-	6.7 J-	0.087 U
Copper	149	mg/kg	13.6 J-	36.8	37.9	39.8 J-	42.1 J-	21.1 J-	21.5
Iron	NL	mg/kg	11,500 J-	30,100	30,700	30,300 J-	33,300 J-	14,100 J-	17,000
Lead	128	mg/kg	10.5 J-	23.5 J	24.1 J	25.7 J-	31.5 J-	27.6 J-	12.7 J
Magnesium	NL	mg/kg	15,000 J-	10,700	10,900	11,200 J-	11,100 J-	11,000 J-	9,560
Manganese	NL	mg/kg	285 J-	443	444	511 J-	578 J-	333 J-	338
Mercury	1.06	mg/kg	0.018 J-	0.072 J	0.063 J	0.075 J-	0.074 J-	0.088 J-	0.039 J
Nickel	48.6	mg/kg	16 J-	34.7	35.6	36 J-	40.1 J-	19.8 J-	19.5
Potassium	NL	mg/kg	1,230 J-	3,400	3,650	3,720 J-	4,740 J-	1,730 J-	2,040
Selenium	NL	mg/kg	4.2 UJ	6.6 U	7.2 U	5.8 UJ	5.4 UJ	4.3 UJ	5.8 U
Silver	NL	mg/kg	1.2 UJ	0.061 U	0.066 U	0.27 J-	0.23 J-	0.13 J-	1.7 U
Sodium	NL	mg/kg	1.4 UJ	2.3 U	2.5 U	2 UJ	1.8 UJ	1.5 UJ	2 U
Thallium	NL	mg/kg	0.17 UJ	0.27 U	0.29 U	0.23 UJ	0.21 UJ	0.17 UJ	0.23 U
Vanadium	NL	mg/kg	18.1 J-	43.8	45.6	45.7 J-	57.5 J-	24.5 J-	26.3
Zinc	459	mg/kg	42.3 J-	135 J	138 J	135 J-	171 J-	62.1 J-	75.5 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-22	LMR11-23	LMR11-23	LMR11-23	LMR11-23	LMR11-23	LMR11-23
		Field Sample ID	LMR11-22-006	LMR11-23-006	LMR11-23-024	LMR11-23-048	LMR11-23-072	LMR11-23-096	LMR11-23-115
		Sample Date	8/4/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	48- 72	72- 96	96- 115
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	14,200	21,500 J-	24,800 J-	21,800 J-	19,700 J-	22,900 J-	7,230 J-
Antimony	NL	mg/kg	0.6 J	0.38 UJ	0.36 UJ	0.36 UJ	0.31 UJ	0.22 UJ	0.21 UJ
Arsenic	33	mg/kg	7.6	9.1 J-	10.1 J-	9.2 J-	10.4 J-	9.4 J-	8.1 J-
Barium	NL	mg/kg	92.9	146 J-	161 J-	145 J-	135 J-	144 J-	53.3 J-
Beryllium	NL	mg/kg	0.028 U	0.99 J-	1 J-	0.91 J-	0.83 J-	0.92 J-	0.018 UJ
Cadmium	4.98	mg/kg	1	1.7 J-	1.9 J-	1.7 J-	2.3 J-	2.3 J-	1.2 J-
Calcium	NL	mg/kg	45,100	42,900 J-	39,300 J-	32,500 J-	43,800 J-	28,600 J-	54,300 J-
Chromium	111	mg/kg	21.5	31.6 J-	35.6 J-	31.6 J-	32.3 J-	34 J-	14 J-
Cobalt	NL	mg/kg	8.7	11.2 J-	12.3 J-	10.8 J-	10.4 J-	10.1 J-	5.8 J-
Copper	149	mg/kg	22.3	35.8 J-	39.9 J-	35.2 J-	35.9 J-	35.5 J-	16.6 J-
Iron	NL	mg/kg	20,600	29,700 J-	32,500 J-	29,400 J-	27,200 J-	27,300 J-	12,400 J-
Lead	128	mg/kg	13.5 J	22.9 J-	26.4 J-	23.3 J-	29.3 J-	28.2 J-	15.3 J-
Magnesium	NL	mg/kg	10,000	11,700 J-	12,100 J-	9,740 J-	12,200 J-	9,640 J-	15,500 J-
Manganese	NL	mg/kg	377	481 J-	522 J-	484 J-	542 J-	456 J-	327 J-
Mercury	1.06	mg/kg	0.041 J	0.057 J-	0.068 J-	0.078 J-	0.071 J-	0.067 J-	0.043 J-
Nickel	48.6	mg/kg	23.3	34 J-	37.4 J-	33.7 J-	33.1 J-	34 J-	16.2 J-
Potassium	NL	mg/kg	2,590	3,580 J-	4,160 J-	3,600 J-	3,180 J-	3,590 J-	1,200 J-
Selenium	NL	mg/kg	5.4 U	6.4 UJ	5.9 UJ	6 UJ	5.1 UJ	3.6 UJ	3.6 UJ
Silver	NL	mg/kg	0.057 J	0.17 J-	0.21 J-	0.17 J-	0.16 J-	0.18 J-	0.045 J-
Sodium	NL	mg/kg	1.9 U	2.2 UJ	2 UJ	2.1 UJ	1.8 UJ	1.2 UJ	1.2 UJ
Thallium	NL	mg/kg	0.22 U	0.25 UJ	0.24 UJ	0.24 UJ	0.21 UJ	0.15 UJ	0.14 UJ
Vanadium	NL	mg/kg	33.1	45.8 J-	53.4 J-	45.6 J-	42.7 J-	46.8 J-	19.1 J-
Zinc	459	mg/kg	83.1 J	132 J-	145 J-	133 J-	150 J-	125 J-	52.9 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-24	LMR11-24	LMR11-24	LMR11-24	LMR11-24	LMR11-25	LMR11-25
		Field Sample ID	LMR11-24-006	LMR11-24-024	LMR11-24-048	LMR11-24-072	LMR11-24-096	LMR11-25-006	LMR11-25-024
		Sample Date	8/4/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	72- 96	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	5,240	13,400 J-	18,200 J-	20,200 J-	22,800 J-	20,300 J-	26,200 J-
Antimony	NL	mg/kg	5.7 UJ	0.32 UJ	0.26 UJ	0.27 UJ	0.28 UJ	0.33 UJ	0.34 UJ
Arsenic	33	mg/kg	3.2	7.3 J-	10.3 J-	11.2 J-	10.8 J-	10.5 J-	10.8 J-
Barium	NL	mg/kg	35	91.7 J-	127 J-	131 J-	157 J-	146 J-	170 J-
Beryllium	NL	mg/kg	0.017 U	0.028 UJ	0.86 J-	0.92 J-	0.99 J-	0.96 J-	1.2 J-
Cadmium	4.98	mg/kg	0.52	1.2 J-	2.1 J-	2.1 J-	2.1 J-	1.8 J-	1.9 J-
Calcium	NL	mg/kg	28,300	35,200 J-	46,000 J-	50,000 J-	43,700 J-	44,200 J-	35,300 J-
Chromium	111	mg/kg	9.4	21.7 J-	29.3 J-	30.9 J-	33.9 J-	30.7 J-	37.4 J-
Cobalt	NL	mg/kg	0.05 U	8.7 J-	10.1 J-	10.1 J-	11.5 J-	11.5 J-	12.8 J-
Copper	149	mg/kg	8.2	23.8 J-	34.8 J-	36.5 J-	38.4 J-	37.5 J-	41.3 J-
Iron	NL	mg/kg	8,750	19,500 J-	25,800 J-	25,900 J-	30,800 J-	29,300 J-	34,000 J-
Lead	128	mg/kg	5.7 J	16.7 J-	26.2 J-	27.7 J-	28.4 J-	23.8 J-	25.2 J-
Magnesium	NL	mg/kg	8,110	9,560 J-	12,300 J-	14,300 J-	11,600 J-	10,200 J-	10,600 J-
Manganese	NL	mg/kg	193	339 J-	528 J-	535 J-	635 J-	629 J-	599 J-
Mercury	1.06	mg/kg	0.021 J	0.046 J-	0.064 J-	0.068 J-	0.065 J-	0.063 J-	0.067 J-
Nickel	48.6	mg/kg	10.1	24.2 J-	30.9 J-	31.7 J-	36.3 J-	33.8 J-	38.5 J-
Potassium	NL	mg/kg	918	2,210 J-	2,810 J-	3,560 J-	3,500 J-	3,420 J-	4,490 J-
Selenium	NL	mg/kg	3.3 U	5.4 UJ	4.3 UJ	4.5 UJ	4.6 UJ	5.5 UJ	5.7 UJ
Silver	NL	mg/kg	0.06 J	0.062 J-	0.18 J-	0.17 J-	0.26 J-	0.19 J-	0.2 J-
Sodium	NL	mg/kg	1.1 U	1.9 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.9 UJ	1.9 UJ
Thallium	NL	mg/kg	0.13 U	0.22 UJ	0.17 UJ	0.18 UJ	0.19 UJ	0.22 UJ	0.23 UJ
Vanadium	NL	mg/kg	13.8	30.9 J-	40.2 J-	45 J-	46.4 J-	42.7 J-	54.6 J-
Zinc	459	mg/kg	52.4 J	88.3 J-	126 J-	161 J-	149 J-	125 J-	142 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-25	LMR11-25	LMR11-25	LMR11-26	LMR11-26	LMR11-26	LMR11-26
		Field Sample ID	LMR11-25-048	LMR11-25-072	LMR11-25-096	LMR11-26-006	LMR11-26-024	LMR11-26-048	LMR11-26-072
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	24- 48	48- 72	72- 96	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	24,300 J-	21,500 J-	15,100 J-	15,800 J-	20,200 J-	21,100 J-	21,800 J-
Antimony	NL	mg/kg	0.27 UJ	0.3 UJ	0.27 UJ	0.28 UJ	0.32 UJ	0.35 UJ	0.3 UJ
Arsenic	33	mg/kg	11.2 J-	11.4 J-	16.5 J-	7.7 J-	9.3 J-	9.8 J-	11.3 J-
Barium	NL	mg/kg	158 J-	153 J-	103 J-	111 J-	139 J-	151 J-	148 J-
Beryllium	NL	mg/kg	1 J-	1 J-	0.7 J-	0.78 J-	0.95 J-	1 J-	0.98 J-
Cadmium	4.98	mg/kg	1.9 J-	2.3 J-	2.3 J-	1.2 J-	1.5 J-	1.6 J-	2.3 J-
Calcium	NL	mg/kg	34,600 J-	44,300 J-	52,700 J-	39,500 J-	41,200 J-	40,300 J-	45,700 J-
Chromium	111	mg/kg	34.7 J-	33.8 J-	25.7 J-	23.6 J-	30.5 J-	31.7 J-	34.4 J-
Cobalt	NL	mg/kg	11.8 J-	11.9 J-	9.1 J-	8.7 J-	10.8 J-	11.4 J-	11 J-
Copper	149	mg/kg	40.5 J-	39.6 J-	28.9 J-	30.5 J-	35.2 J-	36.2 J-	40.1 J-
Iron	NL	mg/kg	31,100 J-	30,600 J-	21,900 J-	22,500 J-	28,600 J-	31,100 J-	29,500 J-
Lead	128	mg/kg	31 J-	29 J-	26.1 J-	18.1 J-	25.3 J-	24.2 J-	30.9 J-
Magnesium	NL	mg/kg	10,200 J-	11,200 J-	13,800 J-	10,700 J-	11,700 J-	10,500 J-	12,500 J-
Manganese	NL	mg/kg	542 J-	582 J-	445 J-	381 J-	505 J-	614 J-	598 J-
Mercury	1.06	mg/kg	0.072 J-	0.063 J-	0.058 J-	0.059 J-	0.069 J-	0.075 J-	0.089 J-
Nickel	48.6	mg/kg	35.4 J-	37.1 J-	27.6 J-	25.3 J-	32.2 J-	34.6 J-	34.5 J-
Potassium	NL	mg/kg	3,880 J-	3,200 J-	2,450 J-	2,620 J-	3,300 J-	3,210 J-	3,650 J-
Selenium	NL	mg/kg	4.5 UJ	4.9 UJ	4.5 UJ	4.6 UJ	5.4 UJ	5.8 UJ	4.9 UJ
Silver	NL	mg/kg	0.18 J-	0.27 J-	0.11 J-	0.13 J-	0.2 J-	0.17 J-	0.25 J-
Sodium	NL	mg/kg	1.5 UJ	1.7 UJ	1.5 UJ	1.6 UJ	1.9 UJ	2 UJ	1.7 UJ
Thallium	NL	mg/kg	0.18 UJ	0.2 UJ	0.18 UJ	0.18 UJ	0.22 UJ	0.23 UJ	0.2 UJ
Vanadium	NL	mg/kg	49.4 J-	44.9 J-	35.9 J-	35.6 J-	44.2 J-	45.6 J-	47.1 J-
Zinc	459	mg/kg	281 J-	151 J-	97.7 J-	100 J-	127 J-	143 J-	167 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-26	LMR11-26	LMR11-27	LMR11-27	LMR11-27	LMR11-27	LMR11-27
		Field Sample ID	LMR11-26-096	LMR11-26-117	LMR11-27-006	LMR11-27-024	LMR11-27-048	LMR11-27-072	LMR11-27-096
		Sample Date	8/10/2011	8/10/2011	8/4/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	72- 96	96- 117	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	10,000 J-	6,980 J-	7,290	17,900	12,700	13,900	10,600
Antimony	NL	mg/kg	0.25 UJ	0.28 UJ	6.3 UJ	0.3 UJ	8 UJ	0.24 UJ	0.25 UJ
Arsenic	33	mg/kg	10.1 J-	8.4 J-	4.4	9.7	9.5	9.8	9.8
Barium	NL	mg/kg	78 J-	55.6 J-	51.7	130	101	102	84.5
Beryllium	NL	mg/kg	0.022 UJ	0.024 UJ	0.019 U	0.79	0.024 U	0.62	0.022 U
Cadmium	4.98	mg/kg	1.7 J-	1.2 J-	0.61	1.8	2.2	1.9	2.3
Calcium	NL	mg/kg	57,200 J-	55,800 J-	28,700	40,400	47,500	44,500	51,000
Chromium	111	mg/kg	18.7 J-	14.9 J-	12.4	28.2	24.3	24.5	23.2
Cobalt	NL	mg/kg	7.6 J-	0.068 UJ	5.9	10.2	8.5	8.6	7.9
Copper	149	mg/kg	25.1 J-	16.6 J-	12.7	33.6	30.7	29	29.8
Iron	NL	mg/kg	17,100 J-	12,400 J-	12,400	26,100	21,200	21,400	17,100
Lead	128	mg/kg	20 J-	15.6 J-	8.3 J	24.4	25	24.1	25.4
Magnesium	NL	mg/kg	15,100 J-	12,800 J-	8,220	10,600	12,300	11,000	12,200
Manganese	NL	mg/kg	453 J-	335 J-	245	552	480	449	427
Mercury	1.06	mg/kg	0.1 J-	0.051 J-	0.025 J	0.06 J	0.056 J	0.052 J	0.065 J
Nickel	48.6	mg/kg	21 J-	16.9 J-	14	31.7 J	27.1 J	27 J	25.6 J
Potassium	NL	mg/kg	1,860 J-	1,410 J-	1,180	2,620 J	1,860 J	2,040 J	1,700 J
Selenium	NL	mg/kg	4.2 UJ	4.6 UJ	3.6 U	5 U	4.7 U	4 U	4.2 U
Silver	NL	mg/kg	0.12 J-	1.3 UJ	0.036 J	0.2 J	0.15 J	0.1 J	0.19 J
Sodium	NL	mg/kg	1.5 UJ	1.6 UJ	1.3 U	1.7 U	1.6 U	1.4 U	1.5 U
Thallium	NL	mg/kg	0.17 UJ	0.18 UJ	0.15 U	0.2 U	0.19 U	0.16 U	0.17 U
Vanadium	NL	mg/kg	30.6 J-	22.6 J-	17.9	36.2	28.4	29.9	25.5
Zinc	459	mg/kg	70.4 J-	49.9 J-	54.6 J	131	99.9	92.4	88.5

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-27	LMR11-28	LMR11-28	LMR11-29	LMR11-30	LMR11-31	LMR11-32
		Field Sample ID	LMR11-27-115	LMR11-28-006	LMR11-28-034	LMR11-29-006	LMR11-30-006	LMR11-31-006	LMR11-32-006
		Sample Date	8/11/2011	8/10/2011	8/10/2011	8/4/2011	8/4/2011	8/4/2011	8/10/2011
		Depth Interval (in bss)	96- 115	0- 6	6- 34	0- 6	0- 6	0- 6	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	6,950	14,500 J-	2,100 J-	12,700	16,500	19,000	16,400 J-
Antimony	NL	mg/kg	0.23 UJ	9.5 UJ	0.19 UJ	9.6 UJ	11.6 UJ	0.64 J	0.36 UJ
Arsenic	33	mg/kg	14.4	35.8 J-	13.1 J-	6.7	8.1	10.2	10.1 J-
Barium	NL	mg/kg	64.5	114 J-	0.055 UJ	96.8	120	136	129 J-
Beryllium	NL	mg/kg	0.02 U	0.029 UJ	0.016 UJ	0.029 U	0.035 U	0.039 U	0.031 UJ
Cadmium	4.98	mg/kg	1.6	1.4 J-	0.0098 UJ	1.1	1.2	1.4	1.7 J-
Calcium	NL	mg/kg	71,500	44,800 J-	65,900 J-	42,300	40,000	42,500	44,000 J-
Chromium	111	mg/kg	18	22.5 J-	5.2 J-	20.1	25.6	28.5	26.9 J-
Cobalt	NL	mg/kg	7.4	9.4 J-	0.046 UJ	8.4	9.6	0.11 U	9.7 J-
Copper	149	mg/kg	22	28.6 J-	2.5 J-	25	35.2	33.7	44.8 J-
Iron	NL	mg/kg	14,300	23,900 J-	6,380 J-	20,100	24,800	27,500	24,400 J-
Lead	128	mg/kg	19.2	18.6 J-	3.7 J-	15.7 J	17.6 J	20.7 J	72.7 J-
Magnesium	NL	mg/kg	14,900	13,200 J-	17,700 J-	11,200	10,800	11,800	13,400 J-
Manganese	NL	mg/kg	403	447 J-	254 J-	369	472	440	415 J-
Mercury	1.06	mg/kg	0.054 J	0.043 J-	0.13 UJ	0.045 J	0.041 J	0.066 J	0.32 J-
Nickel	48.6	mg/kg	20.6 J	27.1 J-	6.2 J-	23.2	28.1	31.4	27.8 J-
Potassium	NL	mg/kg	1,230 J	2,470 J-	8.4 UJ	2,200	2,910	3,420	3,000 J-
Selenium	NL	mg/kg	3.9 U	5.6 UJ	3.1 UJ	5.6 U	6.7 U	7.5 U	6.1 UJ
Silver	NL	mg/kg	0.057 J	0.11 J-	0.89 UJ	0.065 J	0.076 J	0.22 J	0.23 J-
Sodium	NL	mg/kg	1.3 U	6,620 J-	1,190 J-	1.9 U	2.3 U	2.6 U	2.1 UJ
Thallium	NL	mg/kg	0.16 U	0.22 UJ	0.12 UJ	0.23 U	0.27 U	0.3 U	0.24 UJ
Vanadium	NL	mg/kg	24.1	28.4 J-	7.7 J-	30.4	36.8	42.6	39 J-
Zinc	459	mg/kg	58.6	109 J-	15.3 J-	90.5 J	106 J	123 J	149 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-32	LMR11-32	LMR11-32	LMR11-32	LMR11-32	LMR11-33	LMR11-34
		Field Sample ID	LMR11-32-024	LMR11-32-048	LMR11-32-072	LMR11-32-096	LMR11-32-116	LMR11-33-006	LMR11-34-006
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	96- 116	0- 6	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	15,300 J-	11,700 J-	6,840 J-	5,600 J-	10,600 J-	11,100	13,300
Antimony	NL	mg/kg	0.25 UJ	0.35 UJ	0.27 UJ	0.23 UJ	0.22 UJ	9.3 UJ	10.8 UJ
Arsenic	33	mg/kg	9.7 J-	13.9 J-	11.1 J-	13.7 J-	18.2 J-	9.4	7
Barium	NL	mg/kg	125 J-	122 J-	97.8 J-	74.5 J-	101 J-	79.7	87
Beryllium	NL	mg/kg	0.74 J-	0.03 UJ	0.023 UJ	0.019 UJ	0.55 J-	0.028 U	0.032 U
Cadmium	4.98	mg/kg	1.5 J-	2 J-	7 J-	0.93 J-	1 J-	0.91	1.3
Calcium	NL	mg/kg	38,700 J-	47,100 J-	38,200 J-	32,500 J-	33,100 J-	37,000	31,100
Chromium	111	mg/kg	25.1 J-	24 J-	22.3 J-	11.4 J-	16.8 J-	17.6	20.2
Cobalt	NL	mg/kg	9.3 J-	9.3 J-	8.1 J-	6.1 J-	7.5 J-	0.081 U	0.094 U
Copper	149	mg/kg	50.7 J-	41.9 J-	41.7 J-	35.8 J-	40.9 J-	19.5	21.9
Iron	NL	mg/kg	21,700 J-	21,400 J-	14,400 J-	10,300 J-	17,100 J-	17,200	19,300
Lead	128	mg/kg	62.7 J-	244 J-	126 J-	91.3 J-	78.9 J-	12.9 J	13.1
Magnesium	NL	mg/kg	12,600 J-	12,600 J-	10,300 J-	8,800 J-	8,480 J-	9,910	8,960
Manganese	NL	mg/kg	356 J-	404 J-	310 J-	189 J-	304 J-	314	323
Mercury	1.06	mg/kg	0.13 J-	0.16 J-	0.18 J-	0.7 J-	0.89 J-	0.035 J	0.043 J
Nickel	48.6	mg/kg	27 J-	28.9 J-	22.3 J-	14.3 J-	19.5 J-	19.9	21.9
Potassium	NL	mg/kg	2,670 J-	1,760 J-	1,030 J-	1,000 J-	1,820 J-	1,920	2,440
Selenium	NL	mg/kg	4.2 UJ	5.9 UJ	4.5 UJ	3.8 UJ	3.7 UJ	5.4 U	0.5 U
Silver	NL	mg/kg	0.43 J-	2.1 J-	0.23 J-	0.18 J-	0.75 J-	1.5 U	0.098 J
Sodium	NL	mg/kg	1.4 UJ	2 UJ	1.6 UJ	1.3 UJ	1.3 UJ	1.9 U	2.2 UJ
Thallium	NL	mg/kg	0.17 UJ	0.24 UJ	0.18 UJ	0.15 UJ	0.15 UJ	0.22 U	0.25 U
Vanadium	NL	mg/kg	37.1 J-	29.6 J-	21.9 J-	17.1 J-	25.5 J-	27.7	30.7
Zinc	459	mg/kg	153 J-	275 J-	182 J-	147 J-	186 J-	74.3 J	80.3

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-35	LMR11-35	LMR11-35	LMR11-35	LMR11-35	LMR11-35	LMR11-35
		Field Sample ID	LMR11-35-006	LMR11-35-024	LMR11-35-024FS	LMR11-35-048	LMR11-35-072	LMR11-35-096	LMR11-35-116
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	0- 6	6- 24	6- 24	24- 48	48- 72	72- 96	96- 116
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	22,000	24,400	22,500	23,200	27,800	29,300	18,400
Antimony	NL	mg/kg	0.32 UJ	0.26 UJ	0.27 UJ	0.29 UJ	0.34 UJ	0.37 UJ	0.31 UJ
Arsenic	33	mg/kg	9.3	11.4	10.8	9.5	11.1	11.7	13.3
Barium	NL	mg/kg	143	164	157	150	168	180	125
Beryllium	NL	mg/kg	0.94	1.1	0.99	1.1	1.1	1.2	0.85
Cadmium	4.98	mg/kg	1.5	2.1	1.9	1.6	1.8	2	2.5
Calcium	NL	mg/kg	42,500	40,900	41,100	36,900	37,200	35,500	52,200
Chromium	111	mg/kg	30.9	36.6	33.8	32.8	38.1	40.9	32.9
Cobalt	NL	mg/kg	10.5 J	11.9 J	11.6 J	11.2 J	12.4 J	12.8 J	9.9 J
Copper	149	mg/kg	38.9	42.8	41.4	38.4	41.9	43.2	38
Iron	NL	mg/kg	27,200	31,900	30,600	29,100	32,700	34,300	24,500
Lead	128	mg/kg	23.8 J	36.4 J	34.5 J	25.6 J	29.2 J	31.9 J	35.2 J
Magnesium	NL	mg/kg	12,200	11,200	11,300	11,400	11,900	10,700	13,600
Manganese	NL	mg/kg	463 J	664 J	600 J	473 J	549 J	615 J	509 J
Mercury	1.06	mg/kg	0.068 J	0.077 J	0.078 J	0.073 J	0.069 J	0.072 J	0.14
Nickel	48.6	mg/kg	31.1 J	37 J	35.8 J	33.4 J	37.1 J	39.2 J	30.8 J
Potassium	NL	mg/kg	4,110	3,930	3,420	4,120	5,080	5,140	3,460
Selenium	NL	mg/kg	5.4 U	4.3 U	4.4 U	4.8 U	5.6 U	6.1 U	5.1 U
Silver	NL	mg/kg	0.049 U	0.04 U	0.04 U	0.23 J	0.26 J	0.27 J	0.22 J
Sodium	NL	mg/kg	1.8 U	1.5 U	1.5 U	1.7 U	1.9 U	2.1 U	1.7 U
Thallium	NL	mg/kg	0.22 U	0.17 U	0.18 U	0.19 U	0.23 U	0.25 U	0.2 U
Vanadium	NL	mg/kg	46.9	49.1	45	48.5	57.9	60.3	40.7
Zinc	459	mg/kg	120 J	295 J	258 J	129 J	147 J	231 J	121 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-36	LMR11-37	LMR11-37	LMR11-37	LMR11-37	LMR11-37	LMR11-38
		Field Sample ID	LMR11-36-006	LMR11-37-006	LMR11-37-024	LMR11-37-048	LMR11-37-048-DP	LMR11-37-072	LMR11-38-006
		Sample Date	8/4/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/9/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	24- 48	48- 72	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	11,700	23,000	24,000	16,900	23,300 J-	24,600	19,200
Antimony	NL	mg/kg	9 UJ	0.39 UJ	0.31 UJ	0.27 UJ	0.27 UJ	0.25 UJ	0.27 UJ
Arsenic	33	mg/kg	6.2	11	11.4	13.8	12.4 J-	13.3	9
Barium	NL	mg/kg	75	154	163	127	156 J-	148	136
Beryllium	NL	mg/kg	0.027 U	1	1	0.79	1.1 J-	1	0.8
Cadmium	4.98	mg/kg	1.1	1.7	1.8	1.9	1.8 J-	2.1	2
Calcium	NL	mg/kg	43,500	43,500	35,200	38,400	38,000 J-	32,700	45,900
Chromium	111	mg/kg	19.6	33	33.9	27.9	34.4 J-	35.7	27.8
Cobalt	NL	mg/kg	8.2	12.2 J	12.3 J	10.1 J	11.5 J-	10.4 J	10.4
Copper	149	mg/kg	18.2	40.5	41.2	34.5	39.5 J-	37.6	33.1
Iron	NL	mg/kg	17,500	30,600	32,600	27,200	31,300 J-	26,800	27,100
Lead	128	mg/kg	12	24.5 J	26.4 J	25.9 J	31.2 J-	28.1 J	21.7
Magnesium	NL	mg/kg	12,500	12,700	10,800	11,800	11,200 J-	10,900	12,500
Manganese	NL	mg/kg	333	531 J	548 J	623 J	551 J-	404 J	480
Mercury	1.06	mg/kg	0.038 J	0.06 J	0.066 J	0.069 J	0.076 J-	0.074 J	0.065 J
Nickel	48.6	mg/kg	20.2	35.7 J	37.4 J	30.8 J	35.3 J-	33.6 J	30.5
Potassium	NL	mg/kg	2,090	4,110	3,800	2,460	3,680 J-	4,470	3,070
Selenium	NL	mg/kg	5.2 U	6.5 U	5.1 U	4.6 U	4.4 UJ	4.2 U	4.6 U
Silver	NL	mg/kg	0.057 J	0.17 J	0.22 J	0.17 J	0.22 J-	0.17 J	1.4
Sodium	NL	mg/kg	1.8 UJ	2.2 U	1.8 U	1.6 U	1.5 UJ	1.4 U	1.6 UJ
Thallium	NL	mg/kg	0.21 U	0.26 U	0.2 U	0.18 U	0.18 UJ	0.17 U	0.18 U
Vanadium	NL	mg/kg	28.1	47.1	46.1	35.7	49.2 J-	50	40.2
Zinc	459	mg/kg	70.1	132 J	139 J	112 J	250 J-	123 J	121

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-38
		Field Sample ID	LMR11-38-024	LMR11-38-024-DP	LMR11-38-024FS	LMR11-38-048	LMR11-38-048-DP	LMR11-38-072	LMR11-38-072-DP
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	6- 24	6- 24	6- 24	24- 48	24- 48	48- 72	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	11,300	14,500	13,100	22,400	19,600	21,400	26,600
Antimony	NL	mg/kg	0.23 UJ	9.1 UJ	0.25 UJ	0.29 UJ	0.34 UJ	0.28 UJ	10.5 UJ
Arsenic	33	mg/kg	7.1	8.2	7.3	9.9	9.2	10.2	10.8
Barium	NL	mg/kg	86.8	104	99.6	156	127	145	169
Beryllium	NL	mg/kg	0.51 J	0.027 U	0.52 J	0.88	0.03 U	0.83	1
Cadmium	4.98	mg/kg	1.5	1.6	1.6	2.4	1.8	2.4	2.3
Calcium	NL	mg/kg	38,600	46,800	38,400	39,200	41,300	38,200	36,600
Chromium	111	mg/kg	18.3	22.3	20.8	32.1	27.9	31.3	37.1
Cobalt	NL	mg/kg	7.7	8.8	8.4	11.4	9.9	10.9	12.4
Copper	149	mg/kg	23.8	27	25.4	34.4	32.4	35.4	40.1
Iron	NL	mg/kg	18,900	21,300	21,100	31,700	25,200	29,600	33,500
Lead	128	mg/kg	15.5	17.8	17.7	23.1	23.6	25.2	26.2
Magnesium	NL	mg/kg	10,700	13,400	10,400	11,300	12,600	11,400	11,900
Manganese	NL	mg/kg	375	409	403	652	454	542	560
Mercury	1.06	mg/kg	0.046 J	0.069 J	0.053 J	0.071 J	0.068 J	0.067 J	0.081 J
Nickel	48.6	mg/kg	21.7	24.8	24.1	34.2	29.2	33.5	38.2
Potassium	NL	mg/kg	1,670	2,560	2,030	3,520	3,570	3,270	4,490
Selenium	NL	mg/kg	3.9 U	5.3 U	4.2 U	4.8 U	5.7 U	4.6 U	6.1 U
Silver	NL	mg/kg	0.13 J	0.048 U	0.15 J	0.23 J	0.052 U	0.25 J	0.056 U
Sodium	NL	mg/kg	1.3 UJ	1.8 UJ	1.5 UJ	1.6 UJ	2 UJ	1.6 UJ	2.1 UJ
Thallium	NL	mg/kg	0.15 U	0.21 U	0.17 U	0.19 U	0.23 U	0.18 U	0.25 U
Vanadium	NL	mg/kg	25.3	33.4	28.6	46.5	42.5	45	54.4
Zinc	459	mg/kg	84.1	93	93.3	134	113	150	155

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-39	LMR11-40	LMR11-40	LMR11-40	LMR11-40	LMR11-41	LMR11-42
		Field Sample ID	LMR11-39-006	LMR11-40-006	LMR11-40-024	LMR11-40-048	LMR11-40-084	LMR11-41-006	LMR11-42-006
		Sample Date	8/4/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011	8/9/2011
		Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	48- 84	0- 6	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	9,790	9,700 J-	4,290 J-	6,880 J-	5,860 J-	13,100	11,400
Antimony	NL	mg/kg	8.3 UJ	0.22 UJ	0.27 UJ	0.2 UJ	0.21 UJ	8.3 UJ	0.24 UJ
Arsenic	33	mg/kg	5.5	8 J-	4.5 J-	4.5 J-	3.3 J-	7.3	14.2
Barium	NL	mg/kg	68.3	63.4 J-	34.7 J-	54.3 J-	50.5 J-	84.8	89.5
Beryllium	NL	mg/kg	0.025 U	0.019 UJ	0.023 UJ	0.017 UJ	0.018 UJ	0.025 U	0.021 U
Cadmium	4.98	mg/kg	1.1	1.2 J-	0.014 UJ	0.71 J-	0.66 J-	1.4	2.7
Calcium	NL	mg/kg	33,800	36,100 J-	40,300 J-	39,700 J-	36,300 J-	41,400	44,100
Chromium	111	mg/kg	15.7	17.4 J-	8.4 J-	12 J-	10.4 J-	20.7	37.7
Cobalt	NL	mg/kg	7.4	6.2 J-	0.066 UJ	7 J-	6.3 J-	7.8	9.4
Copper	149	mg/kg	17	17.7 J-	8.6 J-	15.5 J-	14 J-	23.3	30.7
Iron	NL	mg/kg	16,400	14,100 J-	10,900 J-	13,700 J-	12,200 J-	18,600	18,500
Lead	128	mg/kg	11.1	17.3 J-	6.5 J-	8.6 J-	7.2 J-	16	33.9
Magnesium	NL	mg/kg	9,770	10,100 J-	11,800 J-	14,900 J-	13,500 J-	11,400	11,700
Manganese	NL	mg/kg	326	247 J-	315 J-	318 J-	264 J-	352	433
Mercury	1.06	mg/kg	0.032 J	0.047 J-	0.022 J-	0.039 J-	0.018 J-	0.045 J	0.11 J
Nickel	48.6	mg/kg	18.5	16.9 J-	11.6 J-	16.5 J-	15.5 J-	21.2	23
Potassium	NL	mg/kg	1,560	1,770 J-	763 J-	1,130 J-	918 J-	2,390	1,820
Selenium	NL	mg/kg	0.39 U	3.7 UJ	4.4 UJ	3.3 UJ	3.5 UJ	4.8 U	4 U
Silver	NL	mg/kg	0.049 J	1.1 UJ	1.3 UJ	0.95 UJ	0.99 UJ	1.4 U	0.037 U
Sodium	NL	mg/kg	1.7 UJ	1.3 UJ	1.5 UJ	1.1 UJ	1.2 UJ	1.7 UJ	1.4 UJ
Thallium	NL	mg/kg	0.19 U	0.15 UJ	0.18 UJ	0.13 UJ	0.14 UJ	0.19 U	0.16 U
Vanadium	NL	mg/kg	23.9	24.7 J-	14.3 J-	19.3 J-	15.7 J-	31.9	26.8
Zinc	459	mg/kg	76.1	57.2 J-	28.3 J-	43.1 J-	40.7 J-	83.4	87.1

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-43
		Field Sample ID	LMR11-42-024	LMR11-42-048	LMR11-42-048FS	LMR11-42-072	LMR11-42-096	LMR11-42-129	LMR11-43-030
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96	96- 129	24- 30
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	11,200	11,700	18,100	7,620	7,140	7,840	4,860
Antimony	NL	mg/kg	0.26 UJ	8.5 UJ	0.38 UJ	0.26 UJ	7.9 UJ	6.4 UJ	0.2 UJ
Arsenic	33	mg/kg	13.8	23.1	40.5	11.9	13.9	5.1	5.4
Barium	NL	mg/kg	91.6	93.4	140	51.9	58.4	56.7	36.1
Beryllium	NL	mg/kg	0.022 U	0.44 J	0.032 U	0.022 U	0.024 U	0.019 U	0.017 U
Cadmium	4.98	mg/kg	2.2	3.1	6.5	1.1	1.4	0.83	0.85
Calcium	NL	mg/kg	47,000	46,100	62,600	51,600	44,500	47,400	221,000
Chromium	111	mg/kg	28.3	30.7	59.9	14.7	20.9	13.1	9.7
Cobalt	NL	mg/kg	8	8.7	14.2	0.064 U	7	6.7 J	0.05 U
Copper	149	mg/kg	29.3	29.9	49.8	14.7	19.7	13.6	10.8
Iron	NL	mg/kg	18,100	19,200	27,000	12,600	13,900	13,400	8,340
Lead	128	mg/kg	23.5	38.1	124	14.1	15.5	8.8	42.9
Magnesium	NL	mg/kg	12,100	11,400	15,700	15,600	11,300	16,600	14,200
Manganese	NL	mg/kg	397	433	598	299	308	332	376
Mercury	1.06	mg/kg	0.086 J	0.11 J	0.16 J	0.068 J	0.074 J	0.0088 J	0.029 J
Nickel	48.6	mg/kg	21	23.6	33.6	14.3	17.6	17.1 J	9.8
Potassium	NL	mg/kg	2,090	1,910	3,280	1,440	1,180	1,350	1,030
Selenium	NL	mg/kg	4.3 U	5 U	6.3 U	4.3 U	4.6 U	3.7 U	3.4 U
Silver	NL	mg/kg	0.039 U	0.19 J	0.057 U	0.039 U	0.042 U	1.1 U	0.031 U
Sodium	NL	mg/kg	1.5 UJ	1.7 UJ	2.1 UJ	1.5 UJ	1.6 UJ	559	1.2 UJ
Thallium	NL	mg/kg	0.17 U	0.2 U	0.25 U	0.17 U	0.18 U	0.15 U	0.14 U
Vanadium	NL	mg/kg	28.1	27.6	41.9	20	19.9	19.8	14.5
Zinc	459	mg/kg	81.5	92.4	127	54	59.7	46.9 J	34.3

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-44	LMR11-44	LMR11-44	LMR11-44	LMR11-44	LMR11-44	LMR11-45
		Field Sample ID	LMR11-44-006	LMR11-44-024	LMR11-44-024FS	LMR11-44-048	LMR11-44-072	LMR11-44-096	LMR11-45-006
		Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	6- 24	24- 48	48- 72	72- 96	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	23,000	21,000	21,800	21,600	9,680	18,500	21,600
Antimony	NL	mg/kg	10.7 UJ	0.32 UJ	0.36 UJ	0.23 UJ	0.21 UJ	0.25 UJ	9 UJ
Arsenic	33	mg/kg	9.9	11.2	11.4	11	19.2	29.1	9.9
Barium	NL	mg/kg	151	147	147	136	65.2	137	139
Beryllium	NL	mg/kg	0.032 U	0.84	1.2	0.9	0.53	0.84	0.79
Cadmium	4.98	mg/kg	1.9	2.2	2.3	2.3	2.1	2.4	2.1
Calcium	NL	mg/kg	36,600	42,600	42,500	33,600	44,800	47,600	40,100
Chromium	111	mg/kg	32.5	32.1	32.8	32.2	21.8	30.3	30.5
Cobalt	NL	mg/kg	11.3	11.1	11	9.8	8.5	9.1	10.7
Copper	149	mg/kg	35	37.3	36.7	32.4	20	38.9	35.5
Iron	NL	mg/kg	29,300	29,600	28,400	26,700	16,000	21,600	27,900
Lead	128	mg/kg	23.2	29.7	29.9	28.1	27.9	38.8	23
Magnesium	NL	mg/kg	11,500	12,000	12,000	10,500	12,500	11,200	12,400
Manganese	NL	mg/kg	484	544	520	581	324	442	481
Mercury	1.06	mg/kg	0.073 J	0.091 J	0.12 J	0.064 J	0.075 J	0.18	0.064 J
Nickel	48.6	mg/kg	34.3	34.2	34.4	31.6	21.9	28.8	32.3
Potassium	NL	mg/kg	4,010	3,230	3,590	3,640	1,700	3,470	3,890
Selenium	NL	mg/kg	6.3 U	5.3 U	5.9 U	3.9 U	3.5 U	4.2 U	5.2 U
Silver	NL	mg/kg	0.057 U	0.048 U	0.054 U	0.035 U	0.032 U	0.039 U	0.23 J
Sodium	NL	mg/kg	2.1 UJ	1.8 UJ	2 UJ	1.3 UJ	1.2 UJ	1.5 UJ	1.8 UJ
Thallium	NL	mg/kg	0.25 U	0.21 U	0.24 U	0.15 U	0.14 U	0.17 U	0.21 U
Vanadium	NL	mg/kg	48.2	44	45.6	45.1	26.1	38.1	46
Zinc	459	mg/kg	137	167	174	118	69.6	129	127

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-45	LMR11-45	LMR11-45	LMR11-45	LMR11-45	LMR11-46	LMR11-46
		Field Sample ID	LMR11-45-024	LMR11-45-048	LMR11-45-048FS	LMR11-45-072	LMR11-45-096	LMR11-46-006	LMR11-46-024
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	22,700	26,100	24,900	23,300	24,400	17,100	20,600
Antimony	NL	mg/kg	7.8 UJ	0.28 UJ	0.26 UJ	0.37 UJ	0.27 UJ	0.34 UJ	0.31 UJ
Arsenic	33	mg/kg	10.7	11	11.9	11.3	12.3	9.5	12.5
Barium	NL	mg/kg	158	173	164	162	162	113	134
Beryllium	NL	mg/kg	0.95	1.2	1.1	0.97	1	0.87	0.98
Cadmium	4.98	mg/kg	2.5	2.5	2.6	2.6	2.6	1.5	2.4
Calcium	NL	mg/kg	36,000	34,800	36,900	38,500	36,200	38,800	49,300
Chromium	111	mg/kg	33.2	36.4	34.9	34.6	35.9	26.3	31.5
Cobalt	NL	mg/kg	12.3	12.7	12.1	12.5	13.7	9.7	10.3
Copper	149	mg/kg	40.9	39.4	38.5	38.9	39	30.1 J	36.8 J
Iron	NL	mg/kg	32,900	34,500	33,500	34,200	32,900	23,800	27,200
Lead	128	mg/kg	28.9	26.5	28	30.4	30.7	20.4	30.1
Magnesium	NL	mg/kg	11,700	11,100	11,100	11,100	11,100	10,900	14,400
Manganese	NL	mg/kg	585	604	652	645	609	422	577
Mercury	1.06	mg/kg	0.07 J	0.071 J	0.058 J	0.076 J	0.08 J	0.0011 U	0.0009 U
Nickel	48.6	mg/kg	37.2	38.8	36.9	38.4	39.4	27.8	31.1
Potassium	NL	mg/kg	3,280	3,930	3,730	3,310	3,410	3,090	3,830
Selenium	NL	mg/kg	4.6 U	0.38 U	4.3 U	6.1 U	4.4 U	5.7 U	5.1 U
Silver	NL	mg/kg	0.28 J	0.22 J	0.27 J	0.27 J	0.31 J	0.052 U	0.047 U
Sodium	NL	mg/kg	1.6 UJ	1.6 UJ	1.5 UJ	2.1 UJ	1.5 UJ	2 U	1.8 U
Thallium	NL	mg/kg	0.18 U	0.19 U	0.17 U	0.25 U	0.18 U	0.23 U	0.21 U
Vanadium	NL	mg/kg	45.7	53.1	50.8	48.2	50	39.9	47.6
Zinc	459	mg/kg	150	158	161	173	224	105	130

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-46	LMR11-46	LMR11-46	LMR11-46	LMR11-47	LMR11-47	LMR11-47
		Field Sample ID	LMR11-46-024FS	LMR11-46-048	LMR11-46-072	LMR11-46-093	LMR11-47-006	LMR11-47-024	LMR11-47-048
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 93	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	16,100	12,100	2,940	4,040	18,700	22,800	12,700
Antimony	NL	mg/kg	0.34 UJ	0.25 UJ	0.24 UJ	0.24 UJ	10.4 UJ	0.27 UJ	0.23 UJ
Arsenic	33	mg/kg	12	9.7	4	4.6	9.7	10.8	7.8
Barium	NL	mg/kg	116	79.9	0.071 U	27.9	126	144	74.6
Beryllium	NL	mg/kg	0.82	0.021 U	0.021 U	0.021 U	0.88	0.97	0.02 U
Cadmium	4.98	mg/kg	2.2	1.8	0.013 U	0.69	1.5	1.9	1.2
Calcium	NL	mg/kg	45,100	51,600	55,800	57,700	37,400	40,200	38,600
Chromium	111	mg/kg	26.5	22	6.5	9.9	27.5	33.5	20.6
Cobalt	NL	mg/kg	9.7	6.9	0.059 U	0.06 U	9.9	10.4	7.1
Copper	149	mg/kg	33.8 J	24 J	6.3 J	9.9 J	32.2 J	36.5 J	18.5 J
Iron	NL	mg/kg	25,500	17,700	7,360	9,070	26,300	28,700	17,200
Lead	128	mg/kg	28	20.5	4.2	8.2	22.5	27.7	14.8
Magnesium	NL	mg/kg	12,500	12,900	11,400	11,200	10,900	11,500	11,200
Manganese	NL	mg/kg	548	419	207	239	449	527	333
Mercury	1.06	mg/kg	0.0009 U	0.0009 U	0.0007 U	0.0007 U	0.0011 U	0.001 U	0.0009 U
Nickel	48.6	mg/kg	29	20.9	7.6	10.9	30	32.4	20
Potassium	NL	mg/kg	2,520	2,400	634	861	3,180	3,960	2,320
Selenium	NL	mg/kg	5.7 U	4.2 U	4 U	4 U	6 U	4.5 U	3.9 U
Silver	NL	mg/kg	0.052 U	0.038 U	1.1 U	0.037 U	0.055 U	0.041 U	0.035 U
Sodium	NL	mg/kg	2 U	1.4 U	1.4 U	1.4 U	2.1 U	1.6 U	1.3 U
Thallium	NL	mg/kg	0.23 U	0.17 U	0.16 U	0.16 U	0.24 U	0.18 U	0.15 U
Vanadium	NL	mg/kg	36.8	31.6	13.6	16.6	41.3	50.4	30.6
Zinc	459	mg/kg	117	81.9	21.6	30.7	123	171	77.6

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-47	LMR11-47	LMR11-47	LMR11-47	LMR11-48	LMR11-48	LMR11-48
		Field Sample ID	LMR11-47-072	LMR11-47-096	LMR11-47-120	LMR11-47-144	LMR11-48-006	LMR11-48-024	LMR11-48-024FS
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	120- 144	0- 6	6- 24	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	18,800	23,200	14,400	15,700	22,300	19,100	20,500
Antimony	NL	mg/kg	0.3 UJ	0.28 UJ	0.22 UJ	0.32 UJ	11.5 UJ	9.5 UJ	0.37 UJ
Arsenic	33	mg/kg	15.4	13.3	16.2	15.8	10.8	10	10.7
Barium	NL	mg/kg	132	160	125	134	158	144	145
Beryllium	NL	mg/kg	0.84	1	0.76	0.79	0.035 U	0.82	0.032 U
Cadmium	4.98	mg/kg	3.3	5	6.4	5.7	2.2	2.2	2.2
Calcium	NL	mg/kg	51,200	38,200	45,700	58,600	48,000	42,300	40,200
Chromium	111	mg/kg	36.7	50.6	44.6	53.1	32.7	28.6	30.4
Cobalt	NL	mg/kg	9.8	11	10.6	9.9	12	11.5	11.1
Copper	149	mg/kg	43.8 J	47.4 J	45.5 J	47.9 J	36.6	35.8	35.7
Iron	NL	mg/kg	26,600	30,000	21,900	25,400	31,900	30,300	30,600
Lead	128	mg/kg	41.3	93.4	59.3	77.7	22.8	23.6	22.2
Magnesium	NL	mg/kg	12,900	11,700	10,400	12,700	12,500	11,600	11,000
Manganese	NL	mg/kg	581	548	485	572	765	573	558
Mercury	1.06	mg/kg	0.001 U	0.0009 U	0.0009 U	0.001 U	0.059 J	0.066 J	0.058 J
Nickel	48.6	mg/kg	34.6	42.6	38.8	39.8	35.3	34.1	33.2
Potassium	NL	mg/kg	3,220	3,880	2,480	2,350	3,910	2,660	3,290
Selenium	NL	mg/kg	4.9 U	0.38 J	3.6 U	0.42 J	6.7 U	5.5 U	6.2 U
Silver	NL	mg/kg	0.045 U	0.043 U	0.033 U	0.048 U	0.17 J	0.23 J	0.2 J
Sodium	NL	mg/kg	1.7 U	1.6 U	1.2 U	1.8 U	2.3 UJ	1.9 UJ	2.1 UJ
Thallium	NL	mg/kg	0.2 U	0.19 U	0.15 U	0.21 U	0.27 U	0.22 U	0.25 U
Vanadium	NL	mg/kg	42.3	50.8	33.5	35	47.9	39.1	42.7
Zinc	459	mg/kg	144	172	131	151	138	137	137

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-48	LMR11-48	LMR11-49	LMR11-49	LMR11-49	LMR11-49	LMR11-49
		Field Sample ID	LMR11-48-048	LMR11-48-061	LMR11-49-006	LMR11-49-024	LMR11-49-048	LMR11-49-072	LMR11-49-096
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	24- 48	48- 61	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	25,800	25,000	18,700	20,400	18,600	10,300	4,590
Antimony	NL	mg/kg	0.28 UJ	0.27 UJ	0.39 UJ	0.31 UJ	0.27 UJ	0.25 UJ	0.24 UJ
Arsenic	33	mg/kg	10.5	10.7	10.1	11	11	10.8	6.7
Barium	NL	mg/kg	166	163	130	146	139	85	41.8
Beryllium	NL	mg/kg	1	0.98	0.94	1	0.92	0.021 U	0.02 U
Cadmium	4.98	mg/kg	2.4	2.5	2	2.3	2.6	2.6	1.5
Calcium	NL	mg/kg	45,500	37,800	40,000	41,200	52,400	64,700	51,400
Chromium	111	mg/kg	35.4	34.9	29.4	32.2	31.9	24.9	15.2
Cobalt	NL	mg/kg	11.9	12.2	11.2	11.6	10.7	9	6.3
Copper	149	mg/kg	39.6	39.7	35.5	38.8	39.1	31.6	14.3
Iron	NL	mg/kg	32,400	32,300	29,100	31,500	28,800	20,200	10,500
Lead	128	mg/kg	26.3	26.7	22.6	27.3	32.7	29.5	20.1
Magnesium	NL	mg/kg	12,200	11,900	11,600	11,600	13,300	17,200	11,700
Manganese	NL	mg/kg	600	569	510	575	591	512	306
Mercury	1.06	mg/kg	0.075 J	0.074 J	0.069 J	0.072 J	0.086 J	0.084 J	0.058 J
Nickel	48.6	mg/kg	36.4	36.7	33.2 J	35 J	33.4 J	26.9 J	18.5 J
Potassium	NL	mg/kg	4,540	4,220	2,950	2,960	2,750	1,590	756
Selenium	NL	mg/kg	4.7 U	4.5 U	6.4 U	5.1 U	4.4 U	4.2 U	4 U
Silver	NL	mg/kg	0.26 J	0.26 J	0.059 U	0.047 U	0.041 U	0.038 U	0.036 U
Sodium	NL	mg/kg	1.6 UJ	1.5 UJ	2.2 U	1.8 U	1.5 U	1.4 U	1.4 U
Thallium	NL	mg/kg	0.19 U	0.18 U	0.26 U	0.2 U	0.18 U	0.17 U	0.16 U
Vanadium	NL	mg/kg	53.7	51.8	41.7	43.1	40.4	27.9	17.2
Zinc	459	mg/kg	143	144	130	165	199	98.1	48.4

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-49	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
		Field Sample ID	LMR11-49-115	LMR11-50-006	LMR11-50-006-DP	LMR11-50-024	LMR11-50-024-DP	LMR11-50-048	LMR11-50-048-DP
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	96- 115	0- 6	0- 6	6- 24	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	9,620	15,900	18,600	17,300	10,900	8,610	7,620
Antimony	NL	mg/kg	0.21 UJ	0.33 UJ	0.85 J	0.32 UJ	0.91 J	0.24 UJ	0.23 UJ
Arsenic	33	mg/kg	8.9	10.9	11	11.1	8.5	9	11.3
Barium	NL	mg/kg	79.8	132	146	153	100	97	92.9
Beryllium	NL	mg/kg	0.55	0.8	0.91	0.9	0.023 U	0.57	0.72
Cadmium	4.98	mg/kg	2.7	1.4	2.2	2.1	1.9	2	1.8
Calcium	NL	mg/kg	53,200	43,600	46,300 J	50,600	38,900 J	42,900	39,900
Chromium	111	mg/kg	25.8	27.9	35.2	33.6	23.2	21	22.7
Cobalt	NL	mg/kg	8	8.7	10.2	10.4	7	7.5	5.8
Copper	149	mg/kg	27.8	46.2 J	64.6 J	60.1	42.8 J	41.9	63.2
Iron	NL	mg/kg	17,900	24,200	27,000 J	27,700	20,800 J	20,500	17,300
Lead	128	mg/kg	28.8	36.1	41 J	45.8	66.5 J	86.2	306
Magnesium	NL	mg/kg	13,700	13,000	14,000 J	14,200	12,000 J	12,300	10,400
Manganese	NL	mg/kg	454	404	460 J	495	352 J	354	526
Mercury	1.06	mg/kg	0.068 J	0.0013 U	0.11 J	0.14 J	0.17	0.16	1.7
Nickel	48.6	mg/kg	26.1 J	34.4	35.1	35.1 J	22.2	22.9 J	17.6 J
Potassium	NL	mg/kg	1,530	2,870	3,430 J	2,850	1,780 J	1,230	1,140
Selenium	NL	mg/kg	3.5 U	5.5 U	5.9 U	5.3 U	4.5 U	3.9 U	3.8 U
Silver	NL	mg/kg	0.032 U	0.05 U	0.52 J	0.048 U	0.38 J	0.036 U	0.034 U
Sodium	NL	mg/kg	1.2 U	1.9 U	2 U	1.8 U	1.5 U	1.3 U	1.3 U
Thallium	NL	mg/kg	0.14 U	0.22 U	0.23 U	0.21 U	0.18 U	0.16 U	0.15 U
Vanadium	NL	mg/kg	26.2	37.7	41.5 J	37.5	27 J	21.5	17.8
Zinc	459	mg/kg	91.7	198	197 J	193	220 J	145	160

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-51	LMR11-51
		Field Sample ID	LMR11-50-072	LMR11-50-096	LMR11-50-120	LMR11-50-144	LMR11-50-175	LMR11-51-006	LMR11-51-024
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 120	120- 144	144- 175	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	8,450	13,500	18,200	17,000	14,600	18,500	20,900
Antimony	NL	mg/kg	0.26 UJ	0.32 UJ	0.31 UJ	0.25 UJ	0.25 UJ	11.2 UJ	0.3 UJ
Arsenic	33	mg/kg	10.1	16.7	13.9	13.8	13.9	9.1	9.3
Barium	NL	mg/kg	103	185	174	181	187	146	148
Beryllium	NL	mg/kg	0.65	0.87	0.96	1	0.84	0.034 U	1.1
Cadmium	4.98	mg/kg	2.3	4.5	4.6	3.7	3.5	1.8	2
Calcium	NL	mg/kg	42,700	44,000	43,800	34,000	33,800	47,700	45,500
Chromium	111	mg/kg	24.6	48.4	36.7	30.5	25.7	27.7	30.3
Cobalt	NL	mg/kg	7.3	10.7	12.1	10.1	9.4	11.3 J	11.2 J
Copper	149	mg/kg	55.6	96.8	79.7	79.8 J	61.9 J	36.4	36.3
Iron	NL	mg/kg	20,200	29,200	41,400	29,600	23,800	28,500	29,000
Lead	128	mg/kg	77.9	205	100	136	97.3	21	23.2
Magnesium	NL	mg/kg	10,800	10,400	11,400	9,510	8,460	10,300	11,500
Manganese	NL	mg/kg	361	538	609	448	403	599	519
Mercury	1.06	mg/kg	0.25	0.41	0.48	1.1	0.85	0.06 J	0.07 J
Nickel	48.6	mg/kg	23.3 J	32.7 J	39.5 J	33.6	27.9	33.1 J	33.4 J
Potassium	NL	mg/kg	1,200	2,130	2,990	2,570	2,410	2,960	3,370
Selenium	NL	mg/kg	4.3 U	5.4 U	5.2 U	4.1 U	4.1 U	6.5 U	5.1 U
Silver	NL	mg/kg	0.039 U	3.3 J+	0.048 U	2.8	0.038 U	0.17 J	0.21 J
Sodium	NL	mg/kg	1.5 U	1.8 U	1.8 U	1.4 U	1.4 U	2.2 U	1.7 U
Thallium	NL	mg/kg	0.17 U	0.21 U	0.21 U	0.17 U	0.17 U	0.26 U	0.2 U
Vanadium	NL	mg/kg	22.2	33.6	40.6	38.1	35.3	37.4	43.2
Zinc	459	mg/kg	174	308	198	268	256	131 J	132 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-51	LMR11-51	LMR11-52	LMR11-52	LMR11-52	LMR11-52	LMR11-52
		Field Sample ID	LMR11-51-048	LMR11-51-075	LMR11-52-006	LMR11-52-024	LMR11-52-048	LMR11-52-048FS	LMR11-52-072
		Sample Date	8/7/2011	8/7/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	24- 48	48- 75	0- 6	6- 24	24- 48	24- 48	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	23,800	21,700	12,800	19,000	19,200	15,400	17,600
Antimony	NL	mg/kg	0.27 UJ	0.3 UJ	0.35 UJ	0.33 UJ	0.25 UJ	0.24 UJ	0.23 UJ
Arsenic	33	mg/kg	11.1	9.9	9.5	10.6	11.6	10.4	10.7
Barium	NL	mg/kg	162	142	117	129	133	110	122
Beryllium	NL	mg/kg	1.2	0.94	0.03 U	0.95	0.98	0.8	0.88
Cadmium	4.98	mg/kg	2.4	3.1	1.5	2.4	2.3	2.4	2.8
Calcium	NL	mg/kg	42,900	51,700	43,900	43,600	46,000	45,200	42,700
Chromium	111	mg/kg	34.8	35.1	21.4	32.3	31.8	28.2	31.3
Cobalt	NL	mg/kg	12 J	11 J	9.8	10.9	10.7	9.5	10.1
Copper	149	mg/kg	39.6	37.4	27.7	36.3	38	34.3	38.3
Iron	NL	mg/kg	32,100	26,500	23,000	28,200	27,900	24,200	25,800
Lead	128	mg/kg	29.6	31	17.8	28.7	33.9	27.6	30.2
Magnesium	NL	mg/kg	11,900	12,100	10,400	12,200	12,000	12,400	12,400
Manganese	NL	mg/kg	631	518	404	488	519	478	461
Mercury	1.06	mg/kg	0.076 J	0.088 J	0.058 J	0.087 J	0.073 J	0.085 J	0.077 J
Nickel	48.6	mg/kg	36.7 J	36.7 J	25.8 J	33.2 J	32.5 J	29.9 J	32.6 J
Potassium	NL	mg/kg	3,540	3,580	2,020	3,100	2,950	2,300	2,660
Selenium	NL	mg/kg	4.5 U	5 U	5.8 U	5.5 U	4.1 U	4 U	3.8 U
Silver	NL	mg/kg	0.3 J	0.25 J	0.053 U	0.05 U	0.038 U	0.037 U	0.035 U
Sodium	NL	mg/kg	1.6 U	1.7 U	2 U	1.9 U	1.4 U	1.4 U	1.3 U
Thallium	NL	mg/kg	0.18 U	0.2 U	0.23 U	0.22 U	0.16 U	0.16 U	0.15 U
Vanadium	NL	mg/kg	48.8	45.2	29.8	43.6	42.9	34.5	37.8
Zinc	459	mg/kg	183 J	130 J	99.8	141	298	116	119

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-53	LMR11-53	LMR11-53	LMR11-53	LMR11-54	LMR11-54	LMR11-54
		Field Sample ID	LMR11-53-006	LMR11-53-024	LMR11-53-048	LMR11-53-073	LMR11-54-006	LMR11-54-006-DP	LMR11-54-024
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 73	0- 6	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	18,400 J	11,200 J	16,400 J	13,400 J	8,160 J	11,600 J	10,100 J
Antimony	NL	mg/kg	0.37 UJ	0.26 UJ	7.4 UJ	0.2 UJ	0.27 UJ	0.26 UJ	0.23 UJ
Arsenic	33	mg/kg	9.2	7.4	8.7	8	5.6	6.7	6.3
Barium	NL	mg/kg	126	80.1	105	98.8	60.8	91.3	73.1
Beryllium	NL	mg/kg	0.97	0.63	0.75	0.63	0.023 U	0.022 U	0.02 U
Cadmium	4.98	mg/kg	1.7	1.3	1.6	3.1	0.97	1.3	1.1
Calcium	NL	mg/kg	42,900	60,200	54,000	45,800	29,200	40,400	35,000
Chromium	111	mg/kg	28	18.1	25	27.7	14	18.6	16
Cobalt	NL	mg/kg	10.7	7.3	9.2	8.3	0.066 U	8.1	7.6
Copper	149	mg/kg	33	22.3	26.8	32.8	17.4	24.4	19.4
Iron	NL	mg/kg	26,500	17,500	22,400	19,600	13,800	18,200	15,600
Lead	128	mg/kg	19.6	14.8	20.3	27.3	11.1	31.6	12.6
Magnesium	NL	mg/kg	11,500	13,200	12,600	11,100	7,600	9,610	8,980
Manganese	NL	mg/kg	525 J	391 J	419 J	389 J	251 J	337 J	285 J
Mercury	1.06	mg/kg	0.0012 U	0.001 U	0.0009 U	0.0007 U	0.001 U	0.001 U	0.0009 U
Nickel	48.6	mg/kg	30.3	20.3	26.6	27.5	16.4	21.5	18.5
Potassium	NL	mg/kg	3,270 J	1,940 J	2,800 J	2,070 J	1,420 J	1,960 J	1,810 J
Selenium	NL	mg/kg	6.2 U	4.3 U	4.3 U	3.3 U	4.4 U	4.4 U	3.8 U
Silver	NL	mg/kg	0.057 U	0.039 U	0.039 U	0.03 U	0.041 U	0.04 U	0.035 U
Sodium	NL	mg/kg	2.1 U	1.5 U	1.5 U	1.1 U	1.5 U	1.5 U	1.3 U
Thallium	NL	mg/kg	0.25 U	0.17 U	0.17 U	0.13 U	0.18 U	0.17 U	0.15 U
Vanadium	NL	mg/kg	41.2	25.2	35.5	28	19.9	24.9	23.9
Zinc	459	mg/kg	112 J	74.5 J	157 J	113 J	59.8 J	81 J	67.4 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-54	LMR11-54	LMR11-54	LMR11-54	LMR11-54	LMR11-55	LMR11-55
		Field Sample ID	LMR11-54-024-DP	LMR11-54-048	LMR11-54-048-DP	LMR11-54-072	LMR11-54-086	LMR11-55-006	LMR11-55-006-DP
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 86	0- 6	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	8,000 J	14,700 J	17,100	14,700	13,400	12,500	12,900
Antimony	NL	mg/kg	8.3 UJ	0.25 UJ	0.31 UJ	0.32 UJ	0.25 UJ	9.5 UJ	0.38 UJ
Arsenic	33	mg/kg	6.9	8.4	9	8.1	10.6	8.1	6.8
Barium	NL	mg/kg	60.7	111	124	103	107	96.8	94.2
Beryllium	NL	mg/kg	0.025 U	0.72	0.9	0.78	0.74	0.028 U	0.033 U
Cadmium	4.98	mg/kg	0.93	1.5	1.7	1.8	3.5	1.1	1.1
Calcium	NL	mg/kg	55,300	37,100	49,700	44,700	51,000	39,200	35,700
Chromium	111	mg/kg	13.2	23	28.6	24.4	31.1	20.7	20.4
Cobalt	NL	mg/kg	7.9	10.4	11.5	9.1	9.1	9.4	0.094 U
Copper	149	mg/kg	16.7	28.9	32.5	28.2	37.7	53.3	24.3
Iron	NL	mg/kg	13,500	22,200	27,200	22,200	23,200	22,300	21,800
Lead	128	mg/kg	12.1	23.1	19.7	22.4	35.5	19.4	16.3
Magnesium	NL	mg/kg	18,800	9,220	12,100	12,300	11,300	9,120	9,660
Manganese	NL	mg/kg	280 J	460 J	605	410	518	430	383
Mercury	1.06	mg/kg	0.0009 U	0.0008 U	0.066 J	0.061 J	0.078 J	0.08 J	0.059 J
Nickel	48.6	mg/kg	16.8	26.6	31.1 J	26.9 J	31.5 J	26 J	24.6 J
Potassium	NL	mg/kg	1,530 J	2,560 J	2,880	2,340	1,880	1,840	2,070
Selenium	NL	mg/kg	4.8 U	4.2 U	5.1 U	5.4 U	4.2 U	5.5 U	6.3 U
Silver	NL	mg/kg	0.044 U	0.039 U	0.047 U	0.049 U	0.039 U	0.088 J	1.8 U
Sodium	NL	mg/kg	1.7 U	1.5 U	1.8 U	1.8 U	1.5 U	1.9 U	2.2 U
Thallium	NL	mg/kg	0.19 U	0.17 U	0.21 U	0.21 U	0.17 U	0.22 U	0.25 U
Vanadium	NL	mg/kg	19.7	31	39.1	33.7	30.4	28.8	30.6
Zinc	459	mg/kg	54.8 J	91.8 J	114	106	134	103 J	96.2 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-55	LMR11-55	LMR11-56	LMR11-56	LMR11-56	LMR11-57	LMR11-57
		Field Sample ID	LMR11-55-030	LMR11-55-030-DP	LMR11-56-006	LMR11-56-024	LMR11-56-036	LMR11-57-006	LMR11-57-024
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	6- 30	6- 30	0- 6	6- 24	24- 36	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	15,800	20,300	16,600	18,400	8,590	13,300	2,890
Antimony	NL	mg/kg	0.31 UJ	0.37 UJ	0.32 UJ	0.33 UJ	7.1 UJ	0.68 J	0.23 J
Arsenic	33	mg/kg	11.1	11.7	8	11.1	12.1	7	1.7
Barium	NL	mg/kg	106	154	265	139	88	96.9	0.058 U
Beryllium	NL	mg/kg	0.75	0.97	0.8	0.88	0.021 U	0.035 U	0.017 U
Cadmium	4.98	mg/kg	1.4	1.9	1.2	1.6	1.6	1.3	0.01 U
Calcium	NL	mg/kg	59,800	57,100	30,700	41,700	57,000	33,800 J	23,300 J
Chromium	111	mg/kg	26.1	32.7	25.3	28.6	22	21.8	6.2
Cobalt	NL	mg/kg	11.7	14.4	9	10.9	7.6	0.1 U	0.049 U
Copper	149	mg/kg	32.3	45.1	29.2	34.1	28.2	26.2 J	4.1 J
Iron	NL	mg/kg	27,100	34,200	24,700	28,300	17,500	20,600 J	5,940 J
Lead	128	mg/kg	21	36.2	20.9	26.1	26.7	16 J	3.2 J
Magnesium	NL	mg/kg	20,400	15,000	8,830	11,600	13,100	9,840 J	8,180 J
Manganese	NL	mg/kg	484	675	423	492	387	358 J	129 J
Mercury	1.06	mg/kg	0.05 J	0.069 J	0.064 J	0.067 J	0.052 J	0.067 J	0.0094 J
Nickel	48.6	mg/kg	31.9 J	39.9 J	27.7 J	32.2 J	22.2 J	24.2	6.5
Potassium	NL	mg/kg	2,590	3,260	2,820	2,910	1,570	2,260 J	472 J
Selenium	NL	mg/kg	5.2 U	6.2 U	5.3 U	5.5 U	4.1 U	6.8 U	3.3 U
Silver	NL	mg/kg	0.12 J	0.21 J	0.16 J	0.14 J	0.099 J	0.14 J	0.94 U
Sodium	NL	mg/kg	1.8 U	2.1 U	1.8 U	1.9 U	1.4 U	2.3 U	1.1 U
Thallium	NL	mg/kg	0.21 U	0.25 U	0.21 U	0.22 U	0.16 U	0.27 U	0.13 U
Vanadium	NL	mg/kg	36.4	48.7	37	42.1	23.9	30.4 J	9.2 J
Zinc	459	mg/kg	111 J	153 J	127 J	144 J	83.4 J	90.4 J	20.6 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-57	LMR11-57	LMR11-58	LMR11-59	LMR11-59	LMR11-59	LMR11-59
		Field Sample ID	LMR11-57-048	LMR11-57-062	LMR11-58-010	LMR11-59-006	LMR11-59-024	LMR11-59-048	LMR11-59-072
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	24- 48	48- 62	0- 10	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	6,160	3,720	8,260	14,900	20,900	17,200	20,400
Antimony	NL	mg/kg	0.33 J	7.4 UJ	0.18 UJ	0.49 J	0.29 UJ	0.77 J	0.29 UJ
Arsenic	33	mg/kg	2.6	2.8	6.4	8	9.3	8.1	10.8
Barium	NL	mg/kg	45.1	26.1	64	108	147	115	131
Beryllium	NL	mg/kg	0.018 U	0.022 U	0.44	0.77	0.9	0.88	0.84
Cadmium	4.98	mg/kg	0.64	0.014 U	0.6	1.4 J	1.6 J	1.6 J	1.9 J
Calcium	NL	mg/kg	29,300 J	39,500 J	67,200	51,600	40,300	39,600	45,000
Chromium	111	mg/kg	10.5	7.4	13.8	23.5	30	25.9	32.2
Cobalt	NL	mg/kg	5.1	0.064 U	7.5	8.6	10.4	8.9	9.9
Copper	149	mg/kg	10.5 J	7 J	18	29.5	35.3	30.2	35.6
Iron	NL	mg/kg	11,800 J	8,350 J	17,100	22,200	28,100	23,100	26,900
Lead	128	mg/kg	5.5 J	4 J	8.7	20.2	22.5	22	29.2
Magnesium	NL	mg/kg	9,950 J	11,300 J	15,100	13,600	11,200	11,300	13,500
Manganese	NL	mg/kg	327 J	243 J	363	436	478	446	499
Mercury	1.06	mg/kg	0.0097 J	0.012 J	0.013 J	0.062 J	0.072 J	0.061 J	0.093 J
Nickel	48.6	mg/kg	13.6	10.1	20.8 J	24.3	31.7	26.5	31
Potassium	NL	mg/kg	1,130 J	678 J	2,120	2,740	3,740	3,110	3,470
Selenium	NL	mg/kg	3.4 U	4.3 U	3 U	5.3 U	4.8 U	4.4 U	4.9 U
Silver	NL	mg/kg	0.98 U	1.2 U	0.86 U	0.17 J	0.17 J	0.17 J	0.27 J
Sodium	NL	mg/kg	1.2 U	1.5 U	1 U	1.8 UJ	1.7 UJ	1.5 UJ	1.7 UJ
Thallium	NL	mg/kg	0.14 U	0.17 U	0.12 U	0.21 U	0.19 U	0.18 U	0.19 U
Vanadium	NL	mg/kg	16.9 J	13.2 J	22.7	36.4	45.8	38.2	46.7
Zinc	459	mg/kg	34.9 J	25.4 J	42.6 J	100	125	107	140

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-59	LMR11-59	LMR11-60	LMR11-60	LMR11-60	LMR11-60	LMR11-60
		Field Sample ID	LMR11-59-096	LMR11-59-116	LMR11-60-006	LMR11-60-024	LMR11-60-048	LMR11-60-048FS	LMR11-60-072
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	72- 96	96- 116	0- 6	6- 24	24- 48	24- 48	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	14,600	5,230	19,600	19,200	21,700	24,900	12,100
Antimony	NL	mg/kg	0.3 UJ	6 UJ	0.37 UJ	0.33 UJ	0.31 UJ	0.28 UJ	7.3 UJ
Arsenic	33	mg/kg	12.3	4.4	8.7	9.2	10	10.4	11.4
Barium	NL	mg/kg	94.9	32.8	141	142	147	160	81.9
Beryllium	NL	mg/kg	0.026 U	0.018 U	0.9	1	0.91	1	0.022 U
Cadmium	4.98	mg/kg	1.2	0.57	1.6 J	1.7 J	1.8 J	1.9 J	1.1 J
Calcium	NL	mg/kg	38,600	33,700	54,000	39,300	40,200	36,600	35,300
Chromium	111	mg/kg	21.9	9	28.9	29.2	31.9	35.5	18.9
Cobalt	NL	mg/kg	8.4	0.052 U	10.4	11.1	11	11.3	7.5
Copper	149	mg/kg	25	8.1	34.2	37.5	38	39.3	23.5
Iron	NL	mg/kg	19,900	8,180	27,300	29,300	29,800	31,200	18,300
Lead	128	mg/kg	25.7	8.5	21.8	24.6	27	29.9	28.4
Magnesium	NL	mg/kg	11,700	9,270	12,200	12,000	12,100	11,400	11,200
Manganese	NL	mg/kg	389	179	433	488	532	507	357
Mercury	1.06	mg/kg	0.23	0.27	0.06 J	0.079 J	0.088 J	0.077 J	0.2
Nickel	48.6	mg/kg	23	10	31	33.5	33.5	35.5	20.7
Potassium	NL	mg/kg	2,810	933	3,530	3,020	3,770	4,310	2,100
Selenium	NL	mg/kg	5 U	3.5 U	6.2 U	5.5 U	5.2 U	4.7 U	4.2 U
Silver	NL	mg/kg	0.25 J	1 U	0.16 J	0.16 J	0.24 J	0.37 J	0.24 J
Sodium	NL	mg/kg	1.7 UJ	1.2 UJ	2.1 UJ	1.9 UJ	1.8 UJ	1.6 UJ	1.5 UJ
Thallium	NL	mg/kg	0.2 U	0.14 U	0.25 U	0.22 U	0.21 U	0.19 U	0.17 U
Vanadium	NL	mg/kg	35	15.6	44.1	41.8	48.2	53	29.7
Zinc	459	mg/kg	100	39.2	123	140	142	180	96.4

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-60	LMR11-61	LMR11-61	LMR11-62	LMR11-62	LMR11-62	LMR11-62
		Field Sample ID	LMR11-60-092	LMR11-61-006	LMR11-61-030	LMR11-62-006	LMR11-62-024	LMR11-62-024DP	LMR11-62-048
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	72- 92	0- 6	6- 30	0- 6	6- 24	6- 24	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	19,200	8,880	13,800	19,900	17,200	16,300	11,200
Antimony	NL	mg/kg	0.25 UJ	0.23 UJ	0.22 UJ	10.1 UJ	0.72 J	0.31 UJ	0.24 J
Arsenic	33	mg/kg	16.8	9.9	9.9	9.3	20.5	8.9	6.7
Barium	NL	mg/kg	131	117	114	136	127	117	79.3
Beryllium	NL	mg/kg	0.84	1.3	0.84	0.03 U	0.77	0.78	0.02 U
Cadmium	4.98	mg/kg	1.3 J	0.62	0.86	1.6 J	1.5 J	1.6 J	0.81 J
Calcium	NL	mg/kg	39,200	44,200	99,900	41,500	41,600	43,800	36,100
Chromium	111	mg/kg	26.6	10.5	20.4	30.5	26.8	26.8	17.6
Cobalt	NL	mg/kg	10.1	5.9	10.4	10.3	9.9	9.3	7.6
Copper	149	mg/kg	37	20	25	34.9	45.9	30.4	22.9
Iron	NL	mg/kg	25,700	15,800	24,700	27,900	26,500	24,000	17,900
Lead	128	mg/kg	38.9	29.8	13.8	26.8	62.2	27.2	25.9
Magnesium	NL	mg/kg	12,100	7,390	22,500	12,200	11,800	11,800	11,200
Manganese	NL	mg/kg	448	618	719	483	493	430	321
Mercury	1.06	mg/kg	0.26	0.08 J	0.023 J	0.072 J	0.5	0.08 J	0.17
Nickel	48.6	mg/kg	29.5	15.1 J	29 J	31.7	29.3	27.4	20.1
Potassium	NL	mg/kg	3,370	1,350	3,400	3,470	2,980	2,750	1,820
Selenium	NL	mg/kg	4.2 U	3.9 U	3.6 U	5.9 U	5.3 U	5.2 U	3.9 U
Silver	NL	mg/kg	0.39 J	0.049 J	1 U	0.22 J	0.72 J	0.3 J	0.091 J
Sodium	NL	mg/kg	1.4 UJ	1.3 U	1.2 U	2 UJ	1.8 UJ	1.8 UJ	1.4 UJ
Thallium	NL	mg/kg	0.17 U	0.16 U	0.14 U	0.24 U	0.21 U	0.21 U	0.16 U
Vanadium	NL	mg/kg	43.3	17.5	34.1	44.6	40.6	39.5	28.3
Zinc	459	mg/kg	145	55.4 J	62.2 J	130	171	119	83.9

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-62	LMR11-62	LMR11-62	LMR11-63	LMR11-63	LMR11-63	LMR11-63
		Field Sample ID	LMR11-62-072	LMR11-62-096	LMR11-62-108	LMR11-63-006	LMR11-63-024	LMR11-63-048	LMR11-63-048FS
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 108	0- 6	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	4,590	7,170	5,520	19,200	16,800	15,800	13,600
Antimony	NL	mg/kg	6.8 UJ	8 UJ	6.2 UJ	0.28 UJ	0.33 UJ	0.27 UJ	0.23 UJ
Arsenic	33	mg/kg	3.1	4.2	4.3	10	9.2	28.6	32.1
Barium	NL	mg/kg	33.5	54.2	41.8	144	131	163	840
Beryllium	NL	mg/kg	0.02 U	0.024 U	0.019 U	0.95	0.79	0.8	0.68
Cadmium	4.98	mg/kg	0.41 J	0.61 J	0.46 J	1.7	1.7	2.1	3.3
Calcium	NL	mg/kg	34,900	42,100	41,600	42,100	40,300	42,700	39,200
Chromium	111	mg/kg	8.4	11.7	10	30.9	27.8	30.2	27.8
Cobalt	NL	mg/kg	4.9 J	6.3 J	5.2	10.8	9.1	9.2	8.2
Copper	149	mg/kg	7.5	12.5	9.6	39 J	33.8 J	58.6 J	45.3 J
Iron	NL	mg/kg	9,310	12,600	10,700	28,300	22,800	24,700	28,900
Lead	128	mg/kg	4.6	6.5	5.1	35.3	42.1	410	284
Magnesium	NL	mg/kg	10,600	12,600	11,600	12,800	11,700	11,900	11,200
Manganese	NL	mg/kg	238	285	267	487	411	454	441
Mercury	1.06	mg/kg	0.01 J	0.017 J	0.011 J	0.0012 U	0.25	0.46	0.34
Nickel	48.6	mg/kg	10.9	15.8	12.3	32.8	26.7	26.8	23.7
Potassium	NL	mg/kg	791	1,390	1,050	2,990	2,990	2,740	2,310
Selenium	NL	mg/kg	4 U	4.6 U	3.6 U	4.7 U	5.5 U	4.5 U	3.8 U
Silver	NL	mg/kg	1.1 U	1.3 U	1 U	0.043 U	0.05 U	0.041 U	0.034 U
Sodium	NL	mg/kg	1.4 UJ	1.6 UJ	1.2 UJ	1.6 U	1.9 U	1.5 U	1.3 U
Thallium	NL	mg/kg	0.16 U	0.19 U	0.15 U	0.19 U	0.22 U	0.18 U	0.15 U
Vanadium	NL	mg/kg	13.9	20.7	16.9	41.8	39	37.8	35.3
Zinc	459	mg/kg	30.5	44.1	33	141	126	271	714

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-63	LMR11-63	LMR11-63	LMR11-64	LMR11-64	LMR11-64	LMR11-64
		Field Sample ID	LMR11-63-072	LMR11-63-096	LMR11-63-115	LMR11-88-006	LMR11-88-024	LMR11-88-048	LMR11-88-072
		Sample Date	8/8/2011	8/8/2011	8/8/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	16,800	15,100	5,730	12,000	14,600 J	13,400 J	18,900 J
Antimony	NL	mg/kg	0.26 UJ	0.3 UJ	7.9 UJ	0.24 UJ	0.25 UJ	0.26 UJ	0.34 UJ
Arsenic	33	mg/kg	31.3	33.1	4.3	15	24.5	20	23.9
Barium	NL	mg/kg	165	144	47.3	97.3	127	107	151
Beryllium	NL	mg/kg	0.87	0.8	0.024 U	0.6	0.85	0.69	0.93
Cadmium	4.98	mg/kg	2.3	2.1	0.85	2.6	4.3	2.7	4.4
Calcium	NL	mg/kg	41,100	43,500	44,300	78,400	50,300	50,600	46,600
Chromium	111	mg/kg	26	24.6	10.8	32.3	51.7	59.9	62.8
Cobalt	NL	mg/kg	10.3	10	0.069 U	8.5 J	9.9	8.5	11.1
Copper	149	mg/kg	85.5	70.1	11.8	39.3	53.1	44.8	74.4
Iron	NL	mg/kg	27,900	26,800	12,500	20,000	24,300	22,900	28,300
Lead	128	mg/kg	156	129	7.3	406	79.2	51.7	171
Magnesium	NL	mg/kg	12,200	12,900	12,700	16,200	12,600	12,500	12,500
Manganese	NL	mg/kg	465	481	352	516	547 J	431 J	585 J
Mercury	1.06	mg/kg	0.81	0.75	0.01 J	0.16	0.17	0.29	0.35
Nickel	48.6	mg/kg	30.2	28.2	14.6	24.7 J	31.3	26	35.1
Potassium	NL	mg/kg	2,590	2,420	1,000	2,060	2,310 J	2,140 J	3,360 J
Selenium	NL	mg/kg	0.34 U	0.4 U	4.6 U	4.1 U	4.2 U	4.3 U	5.6 U
Silver	NL	mg/kg	1.2 J	1.3 J	1.3 U	0.56 J	1.3 J+	0.039 U	1.6 J+
Sodium	NL	mg/kg	1.5 UJ	1.7 UJ	1.6 UJ	1.4 U	1.4 U	1,050	1,030
Thallium	NL	mg/kg	0.17 U	0.2 U	0.18 U	0.16 U	0.17 U	0.17 U	0.23 U
Vanadium	NL	mg/kg	38.3	36.7	18.6	27.4	33.9	31.4	43
Zinc	459	mg/kg	273	265	40.2	113 J	161 J	144 J	190 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-64	LMR11-65	LMR11-65	LMR11-66	LMR11-66	LMR11-66	LMR11-66
		Field Sample ID	LMR11-88-088	LMR11-65-006	LMR11-65-024	LMR11-66-006	LMR11-66-024	LMR11-66-048	LMR11-66-048FS
		Sample Date	8/7/2011	8/6/2011	8/6/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
		Depth Interval (in bss)	72- 88	0- 6	6- 24	0- 6	6- 24	24- 48	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	11,800 J	18,400	17,800	18,800	21,600	22,900	22,300
Antimony	NL	mg/kg	0.2 UJ	0.25 UJ	0.3 UJ	0.3 UJ	0.3 UJ	0.28 UJ	0.37 UJ
Arsenic	33	mg/kg	25.9	14.2	17.4	9	9.7	9.9	10.9
Barium	NL	mg/kg	101	127	126	145	164	197	194
Beryllium	NL	mg/kg	0.62	0.81	0.93	0.92	1	1	0.99
Cadmium	4.98	mg/kg	2.9	2.7	4.5	1.9	2.1	2.2	2.1
Calcium	NL	mg/kg	47,000	32,600	47,100	44,100	47,900	39,900	43,300
Chromium	111	mg/kg	63.4	43.2	31	28.8	31.9	33.2	33.6
Cobalt	NL	mg/kg	8.1	9.1	10.3	10.4 J	11.5 J	12 J	11.6 J
Copper	149	mg/kg	45.2	41.1	42	34.9	38.2	41.3	40.3
Iron	NL	mg/kg	19,300	23,600	25,100	26,800	30,800	30,900	29,800
Lead	128	mg/kg	47	54.4	161	26.6	25	28.6	29.1
Magnesium	NL	mg/kg	12,600	9,430	14,900	12,200	12,400	11,900	12,500
Manganese	NL	mg/kg	422 J	438	421	506	552	531	525
Mercury	1.06	mg/kg	0.18	0.16	0.18 J	0.074 J	0.073 J	0.087 J	0.076 J
Nickel	48.6	mg/kg	25.2	28.3	29	31.3 J	34.3 J	35.9 J	34.6 J
Potassium	NL	mg/kg	1,970 J	3,240	3,140	3,080	3,430	3,840	4,110
Selenium	NL	mg/kg	3.4 U	4.2 U	5 U	5 U	5.1 U	4.6 U	6.2 U
Silver	NL	mg/kg	0.031 U	0.76 J	0.61 J	0.17 J	0.32 J	0.21 J	0.26 J
Sodium	NL	mg/kg	1,540	1,570 J	2,730 J	1.7 U	1.7 U	1.6 U	2.1 U
Thallium	NL	mg/kg	0.14 U	0.17 U	0.2 U	0.2 U	0.2 U	0.18 U	0.25 U
Vanadium	NL	mg/kg	27	40.7	40.6	40.8	45.5	45.6	49.7
Zinc	459	mg/kg	136 J	151	154	128 J	138 J	143 J	148 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-66	LMR11-66	LMR11-66	LMR11-67	LMR11-67	LMR11-67	LMR11-67
		Field Sample ID	LMR11-66-072	LMR11-66-096	LMR11-66-117	LMR11-67-006	LMR11-67-024	LMR11-67-048	LMR11-67-077
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	48- 72	72- 96	96- 117	0- 6	6- 24	24- 48	48- 77
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	21,600	15,300	20,800	18,100	17,200	17,400	16,700
Antimony	NL	mg/kg	0.27 UJ	0.31 UJ	0.23 UJ	0.31 UJ	0.26 UJ	0.6 J	0.28 UJ
Arsenic	33	mg/kg	9.9	11.7	11.7	18.4	20.3	17.2	17.8
Barium	NL	mg/kg	156	117	153	140	153	157	145
Beryllium	NL	mg/kg	0.94	0.027 U	0.94	0.87	0.9	1	0.85
Cadmium	4.98	mg/kg	2	3.6	5.3	4.4	4.5	6.2	4.8
Calcium	NL	mg/kg	41,700	45,500	46,700	53,400	46,600	40,800	43,800
Chromium	111	mg/kg	31.2	34	41.4	52.3	53.8	36.1	35.6
Cobalt	NL	mg/kg	10.6 J	10.2 J	11 J	10.3	10.5	11.7	9.8
Copper	149	mg/kg	38.5	44.2	51.5	57.6	64.7	64.7	58.5
Iron	NL	mg/kg	27,900	23,800	26,700	26,300	27,100	29,400	24,800
Lead	128	mg/kg	29.4	67.8	43.7	73.6	98.5	95.2	126
Magnesium	NL	mg/kg	12,700	12,100	11,100	13,300	12,100	11,300	11,700
Manganese	NL	mg/kg	492	486	488	565	533	539	522
Mercury	1.06	mg/kg	0.089 J	0.12 J	0.1 J	0.28	0.42	0.32	0.38
Nickel	48.6	mg/kg	32.2 J	34.2 J	40.8 J	36.1	34.9	35.5	28.6
Potassium	NL	mg/kg	3,720	2,350	3,270	3,410	2,700	2,430	2,870
Selenium	NL	mg/kg	4.5 U	0.5 J	3.9 U	5.2 U	4.3 U	5.2 U	4.6 U
Silver	NL	mg/kg	0.23 J	0.52 J	0.51 J	0.93 J	1.8	1.2 J	1.2 J
Sodium	NL	mg/kg	1.5 U	1.8 U	1.3 U	1.8 UJ	1.5 UJ	1.8 UJ	1.6 UJ
Thallium	NL	mg/kg	0.18 U	0.21 U	0.16 U	0.21 U	0.17 U	0.21 U	0.18 U
Vanadium	NL	mg/kg	46.5	34.5	42.1	42	38.3	38	38.4
Zinc	459	mg/kg	142 J	156 J	162 J	172	220	211	232

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-68	LMR11-68	LMR11-68	LMR11-68	LMR11-68	LMR11-69	LMR11-70
		Field Sample ID	LMR11-68-006	LMR11-68-024	LMR11-68-048	LMR11-68-072	LMR11-68-096	LMR11-69-006	LMR11-70-006
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/7/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	72- 96	0- 6	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	21,500	22,900	21,000	25,300 J	20,100	7,090	24,900 J
Antimony	NL	mg/kg	0.28 UJ	0.32 UJ	0.31 UJ	0.28 UJ	0.3 UJ	0.3 UJ	0.35 UJ
Arsenic	33	mg/kg	9.4	9.7	10.1	11	12.6	23.3	10.4
Barium	NL	mg/kg	151	186	157	163	157	129	169
Beryllium	NL	mg/kg	0.95	1.1	1	1.1	0.99	0.87	1.1
Cadmium	4.98	mg/kg	1.9	2.1	2.1	2	2.9	1.7	1.9
Calcium	NL	mg/kg	43,900	46,100	35,600	38,200	39,400	106,000	22,700
Chromium	111	mg/kg	30.1	32.6	31.1	35.8	34.8	21.6	34.9
Cobalt	NL	mg/kg	10.9 J	11.9 J	12 J	11.9	11.7 J	12.9	12.6
Copper	149	mg/kg	34.9	38.6	39.4	39.6	47.4	120	37.5
Iron	NL	mg/kg	27,300	30,800	31,200	32,600	30,400	22,800	33,700
Lead	128	mg/kg	22.2	24.3	26	27.8	44.2	419	23.1
Magnesium	NL	mg/kg	12,500	12,200	11,100	11,300	11,500	24,300	9,210
Manganese	NL	mg/kg	504	581	535	587 J	618	600	543 J
Mercury	1.06	mg/kg	0.068 J	0.074 J	0.079 J	0.0009 U	0.12 J	0.22	0.0013 U
Nickel	48.6	mg/kg	30.9 J	35.4 J	36.3 J	36.2	37.9 J	38.9	37.1
Potassium	NL	mg/kg	3,980	3,940	3,090	4,290 J	2,790	1,410	4,040 J
Selenium	NL	mg/kg	4.7 U	5.4 U	5.2 U	4.6 U	5 U	4.9 U	5.8 U
Silver	NL	mg/kg	0.17 J	0.17 J	0.21 J	0.042 U	0.83 J	0.64 J	0.053 U
Sodium	NL	mg/kg	1.6 U	1.8 U	1.8 U	1.6 U	1.7 U	1.7 UJ	2 U
Thallium	NL	mg/kg	0.19 U	0.21 U	0.21 U	0.18 U	0.2 U	0.2 U	0.23 U
Vanadium	NL	mg/kg	46.1	46.5	41.6	54	40.2	23.1	51.3
Zinc	459	mg/kg	123 J	136 J	140 J	142 J	175 J	300	139 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-70	LMR11-70	LMR11-70	LMR11-70	LMR11-70	LMR11-71	LMR11-71
		Field Sample ID	LMR11-70-024	LMR11-70-048	LMR11-70-072	LMR11-70-072FS	LMR11-70-085	LMR11-71-006	LMR11-71-024
		Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	48- 72	72- 85	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	25,600 J	21,400 J	18,200 J	19,100 J	23,500 J	23,100	24,400
Antimony	NL	mg/kg	0.31 UJ	0.33 UJ	0.37 UJ	0.35 UJ	0.29 UJ	0.33 UJ	0.35 UJ
Arsenic	33	mg/kg	9.7	9.8	9	10	9.8	8.4	10.5
Barium	NL	mg/kg	165	149	135	154	162	167	166
Beryllium	NL	mg/kg	1.1	0.95	0.9	0.96	1.2	1.1	1.1
Cadmium	4.98	mg/kg	1.9	1.8	1.8	2	2	1.7	1.9
Calcium	NL	mg/kg	32,600	42,800	50,700	49,100	37,000	40,800	35,400
Chromium	111	mg/kg	35.5	31.1	28	29.6	34	33.7	36.1
Cobalt	NL	mg/kg	12.5	11.4	10.8	11.7	11.6	11.7	12.4
Copper	149	mg/kg	38	35.9	37.3	39.6	38	39.8	42.8
Iron	NL	mg/kg	32,500	28,500	27,100	31,100	30,900	31,800	34,400
Lead	128	mg/kg	21.7	21.7	21.7	24.3	23.9	26.6	31.3
Magnesium	NL	mg/kg	10,400	10,800	11,900	11,500	11,000	12,000	11,200
Manganese	NL	mg/kg	657 J	607 J	581 J	665 J	510 J	426	501
Mercury	1.06	mg/kg	0.0011 U	0.0011 U	0.0012 U	0.0011 U	0.001 U	0.085 J	0.09 J
Nickel	48.6	mg/kg	36.3	32.9	31.1	34.3	34.6	35.6 J	38.9 J
Potassium	NL	mg/kg	4,820 J	4,030 J	3,300 J	3,000 J	4,030 J	4,060	3,830
Selenium	NL	mg/kg	5.1 U	5.5 U	6.1 U	5.9 U	4.9 U	5.5 U	5.9 U
Silver	NL	mg/kg	0.047 U	0.051 U	0.056 U	0.054 U	0.045 U	0.2 J	0.28 J
Sodium	NL	mg/kg	1.8 U	1.9 U	2.1 U	2 U	1.7 U	1.9 U	2 U
Thallium	NL	mg/kg	0.2 U	0.22 U	0.25 U	0.24 U	0.19 U	0.22 U	0.24 U
Vanadium	NL	mg/kg	53.1	45.6	40.3	40.2	50.3	50.3	51.6
Zinc	459	mg/kg	130 J	123 J	117 J	134 J	131 J	142 J	213 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-71
		Field Sample ID	LMR11-71-024FS	LMR11-71-048	LMR11-71-072	LMR11-71-096	LMR11-71-120	LMR11-71-144	LMR11-71-161
		Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 96	96- 120	120- 144	144- 161
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	23,700	22,400	17,500	15,600	20,000	15,900	14,500
Antimony	NL	mg/kg	0.33 UJ	0.32 UJ	0.26 UJ	0.25 UJ	0.26 UJ	0.24 UJ	0.23 UJ
Arsenic	33	mg/kg	9.5	12.4	12	14	14	13.1	10.8
Barium	NL	mg/kg	156	156	147	132	152	122	116
Beryllium	NL	mg/kg	1.1	1	0.88	0.81	0.96	0.73	0.67
Cadmium	4.98	mg/kg	1.8	3.2	3.7	4.5	4.5	3	3.6
Calcium	NL	mg/kg	33,600	40,600	48,300	44,700	47,300	66,400	35,400
Chromium	111	mg/kg	34.4	39.3	36.8	45.6	44.8	37.6	36.8
Cobalt	NL	mg/kg	11.8	11.6	10.7	10.6	11.3	9	8.3
Copper	149	mg/kg	39.8	51.9	59.2	49.1	53.3	43	47.9
Iron	NL	mg/kg	33,000	32,100	28,500	26,200	30,300	25,500	21,000
Lead	128	mg/kg	26.5	60.9	70.9	67.3	62.3	64.6	40.5
Magnesium	NL	mg/kg	11,000	11,600	12,500	12,300	12,100	10,300	8,640
Manganese	NL	mg/kg	454	534	587	502	585	920	358
Mercury	1.06	mg/kg	0.08 J	0.16 J	0.23	0.23	0.21	0.23	0.18
Nickel	48.6	mg/kg	36.7 J	39.6 J	38.2 J	37.9 J	36.6 J	28.1 J	27.9 J
Potassium	NL	mg/kg	3,840	3,420	2,410	2,260	2,940	2,550	2,280
Selenium	NL	mg/kg	5.5 U	5.4 U	4.3 U	4.2 U	4.3 U	3.9 U	3.9 U
Silver	NL	mg/kg	0.21 J	0.45 J	0.41 J	0.72 J	0.56 J	0.53 J	0.66 J
Sodium	NL	mg/kg	1.9 U	1.9 U	1.5 U	1.4 U	1.5 U	1.4 U	1.3 U
Thallium	NL	mg/kg	0.22 U	0.22 U	0.17 U	0.17 U	0.17 U	0.16 U	0.15 U
Vanadium	NL	mg/kg	50.4	48.7	39.2	37.3	43.8	36.1	32
Zinc	459	mg/kg	155 J	183 J	173 J	164 J	175 J	133 J	134 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-72	LMR11-72	LMR11-72	LMR11-73	LMR11-73	LMR11-73	LMR11-74
		Field Sample ID	LMR11-72-006	LMR11-72-024	LMR11-72-035	LMR11-73-006	LMR11-73-024	LMR11-73-042	LMR11-74-006
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/7/2011	8/7/2011	8/7/2011	8/5/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 35	0- 6	6- 24	24- 42	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	12,600 J-	3,200 J-	4,270 J-	12,300	20,100	13,800	19,400
Antimony	NL	mg/kg	0.91 J-	5.9 UJ	6.8 UJ	0.28 UJ	0.4 UJ	0.24 UJ	0.83 J
Arsenic	33	mg/kg	19.6 J-	4.2 J-	4.5 J-	9.6	9.6	12.7	13.3
Barium	NL	mg/kg	152 J-	0.061 UJ	29.1 J-	142	305	105	142
Beryllium	NL	mg/kg	0.75 J-	0.018 UJ	0.021 UJ	0.024 U	0.035 U	0.67	0.91
Cadmium	4.98	mg/kg	1.5 J-	0.011 UJ	0.013 UJ	1.1	2.1	1.7	4.5
Calcium	NL	mg/kg	32,900 J-	39,400 J-	45,000 J-	48,300	49,500	47,100	36,600 J
Chromium	111	mg/kg	23.9 J-	8.4 J-	8.3 J-	22	32	21.1	35.7
Cobalt	NL	mg/kg	8.7 J-	5.3 J-	0.059 UJ	8.7	11.2 J	9.1 J	10.8
Copper	149	mg/kg	90.6 J-	6.8 J-	10 J-	28.4	37.5	29.1	49.9 J
Iron	NL	mg/kg	21,500 J-	7,360 J-	9,260 J-	20,800	29,000	23,000	28,700 J
Lead	128	mg/kg	205 J-	7 J-	5.7 J-	25.2	22.6	26.1	74.4 J
Magnesium	NL	mg/kg	9,640 J-	14,500 J-	12,600 J-	12,600	12,600	12,500	10,100 J
Manganese	NL	mg/kg	302 J-	159 J-	222 J-	397	505	461	572 J
Mercury	1.06	mg/kg	5.6 J-	0.055 J-	0.033 J-	0.061 J	0.07 J	0.055 J	0.25
Nickel	48.6	mg/kg	26 J-	9.7 J-	11.8 J-	24.3 J	32.8 J	25.1 J	32.5
Potassium	NL	mg/kg	2,140 J-	850 J-	786 J-	2,080	3,490	2,080	3,130 J
Selenium	NL	mg/kg	4.2 UJ	3.4 UJ	4 UJ	4.7 U	6.7 U	0.33 J	5.3 U
Silver	NL	mg/kg	2.9 J-	0.98 UJ	1.1 UJ	0.13 J	0.19 J	0.25 J	0.9 J
Sodium	NL	mg/kg	1.5 UJ	1.2 UJ	1.4 UJ	1.6 U	2.3 U	1.4 U	1.8 U
Thallium	NL	mg/kg	0.17 UJ	0.14 UJ	0.16 UJ	0.19 U	0.27 U	0.16 U	0.21 U
Vanadium	NL	mg/kg	31 J-	11.4 J-	14 J-	30.6	43.4	33.9	43.3 J
Zinc	459	mg/kg	339 J-	34 J-	27.9 J-	97.2 J	136 J	119 J	180 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-74	LMR11-74	LMR11-74	LMR11-74	LMR11-74	LMR11-75	LMR11-75
		Field Sample ID	LMR11-74-024	LMR11-74-048	LMR11-74-048FS	LMR11-74-072	LMR11-74-085	LMR11-75-006	LMR11-75-024
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 85	0- 6	6- 24
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	16,000	24,800	23,500	23,400	10,100	19,700 J-	17,700 J-
Antimony	NL	mg/kg	1.3 J	0.88 J	1.1 J	0.92 J	0.86 J	0.73 J-	1 J-
Arsenic	33	mg/kg	22.8	10.8	20.5	25.2	15.7	18.8 J-	25.4 J-
Barium	NL	mg/kg	136	164	165	179	79.6	143 J-	153 J-
Beryllium	NL	mg/kg	0.84	1.2	1	1.1	0.53	0.9 J-	0.85 J-
Cadmium	4.98	mg/kg	4	2.9	3.3	3.7	1.4	1.8 J-	1.7 J-
Calcium	NL	mg/kg	38,800 J	24,800 J	31,900 J	31,400 J	67,900 J	39,000 J-	43,600 J-
Chromium	111	mg/kg	39.9	36.3	45.9	136	23.5	28.5 J-	25.9 J-
Cobalt	NL	mg/kg	10.6	12.3	11.7	12.4	6.4	10.7 J-	10 J-
Copper	149	mg/kg	66.8 J	42.6 J	61.1 J	92.2 J	36.5 J	46.8 J-	53.2 J-
Iron	NL	mg/kg	28,900 J	31,400 J	31,000 J	32,000 J	16,500 J	28,700 J-	27,000 J-
Lead	128	mg/kg	139 J	38.4 J	97.9 J	118 J	54.3 J	71.3 J-	107 J-
Magnesium	NL	mg/kg	10,400 J	9,550 J	10,400 J	9,960 J	13,900 J	12,800 J-	12,300 J-
Manganese	NL	mg/kg	526 J	594 J	595 J	587 J	343 J	469 J-	471 J-
Mercury	1.06	mg/kg	0.35	0.18	0.35	0.43	0.38	0.69 J-	0.94 J-
Nickel	48.6	mg/kg	33.1	36.7	35	41.5	19.1	31.7 J-	29.5 J-
Potassium	NL	mg/kg	2,230 J	3,830 J	4,050 J	3,700 J	1,810 J	3,440 J-	3,120 J-
Selenium	NL	mg/kg	5.7 U	4.8 U	4.5 U	4.8 U	3.4 U	4.8 UJ	4.4 UJ
Silver	NL	mg/kg	0.92 J	0.29 J	0.7 J	1 J	0.64 J	0.57 J+	0.76 J+
Sodium	NL	mg/kg	2 U	1.7 U	1.5 U	1.7 U	1.2 U	1.6 UJ	1.5 UJ
Thallium	NL	mg/kg	0.23 U	0.19 U	0.18 U	0.19 U	0.13 U	0.19 UJ	0.18 UJ
Vanadium	NL	mg/kg	35.9 J	51.1 J	50.3 J	49.4 J	24.8 J	44.4 J-	40 J-
Zinc	459	mg/kg	245 J	144 J	213 J	248 J	117 J	205 J-	229 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-75	LMR11-75	LMR11-75	LMR11-76	LMR11-76	LMR11-76	LMR11-76
		Field Sample ID	LMR11-75-048	LMR11-75-048FS	LMR11-75-080	LMR11-76-006	LMR11-76-024	LMR11-76-048	LMR11-76-072
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 48	24- 48	48- 80	0- 6	6- 24	24- 48	48- 72
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	23,000 J-	20,100 J-	17,900 J-	18,300	13,400	22,000	21,500
Antimony	NL	mg/kg	0.27 UJ	0.28 UJ	0.28 UJ	0.34 UJ	0.25 UJ	0.27 UJ	0.67 J
Arsenic	33	mg/kg	24 J-	21 J-	21 J-	45.4 J	20.8 J	27.4 J	13.7
Barium	NL	mg/kg	166 J-	153 J-	140 J-	172	105	167	152
Beryllium	NL	mg/kg	1.2 J-	0.99 J-	0.96 J-	0.94	0.66	1	1
Cadmium	4.98	mg/kg	1.9 J-	1.6 J-	1.6 J-	3.3	1.5	1.9	1.7
Calcium	NL	mg/kg	38,200 J-	40,300 J-	42,500 J-	41,900	33,400	34,500	34,000 J
Chromium	111	mg/kg	32.2 J-	28.9 J-	27.3 J-	44	21.7	31.4	30.2
Cobalt	NL	mg/kg	11.9 J-	11.6 J-	11.5 J-	11.3	8.4	11.3	12.5
Copper	149	mg/kg	50.4 J-	46.2 J-	50.5 J-	73.6	36.8	52.6	40.2 J
Iron	NL	mg/kg	31,100 J-	30,000 J-	29,300 J-	31,000	21,200	31,600	30,100 J
Lead	128	mg/kg	80.9 J-	73.4 J-	63.8 J-	114 J	57 J	89.5 J	35 J
Magnesium	NL	mg/kg	11,900 J-	12,200 J-	12,000 J-	10,800	10,200	11,000	10,400 J
Manganese	NL	mg/kg	495 J-	500 J-	510 J-	567	347	525	623 J
Mercury	1.06	mg/kg	0.66 J-	0.69 J-	0.52 J-	0.59	0.26	0.53	0.28
Nickel	48.6	mg/kg	35.1 J-	33.8 J-	33 J-	35.5	24	34.6	35.2
Potassium	NL	mg/kg	4,100 J-	3,300 J-	2,760 J-	3,040	2,300	3,550	3,260 J
Selenium	NL	mg/kg	4.5 UJ	4.7 UJ	4.7 UJ	5.7 U	4.1 U	4.5 U	4.7 U
Silver	NL	mg/kg	0.76 J+	1.5 J+	0.62 J+	0.053 U	0.037 U	0.041 U	0.34 J
Sodium	NL	mg/kg	1.5 UJ	1.6 UJ	1.6 UJ	2 U	1.4 U	1.6 U	1.6 U
Thallium	NL	mg/kg	0.18 UJ	0.19 UJ	0.19 UJ	0.23 U	0.16 U	0.18 U	0.19 U
Vanadium	NL	mg/kg	50.9 J-	44 J-	39.8 J-	40.4	29.9	46.1	45.6 J
Zinc	459	mg/kg	219 J-	198 J-	188 J-	322	164	245	154 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-76	LMR11-76	LMR11-77	LMR11-77	LMR11-77	LMR11-77	LMR11-77
		Field Sample ID	LMR11-76-096	LMR11-76-120	LMR11-77-006	LMR11-77-024	LMR11-77-048	LMR11-77-072	LMR11-77-120
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	72- 96	96- 120	0- 6	6- 24	24- 48	48- 72	72- 120
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	24,500	20,200	17,800 J-	13,600 J-	12,900 J-	20,400 J-	24,200 J-
Antimony	NL	mg/kg	1 J	0.76 J	0.8 J-	0.81 J-	0.75 J-	0.93 J-	0.8 J-
Arsenic	33	mg/kg	18.7	29.9	9 J-	12.9 J-	18.9 J-	19.9 J-	16 J-
Barium	NL	mg/kg	162	147	127 J-	114 J-	128 J-	161 J-	164 J-
Beryllium	NL	mg/kg	1.1	0.96	0.031 UJ	0.71 J-	0.71 J-	0.98 J-	1.1 J-
Cadmium	4.98	mg/kg	1.8	1.9	1.7 J-	2.6 J-	3.2 J-	2.1 J-	1.7 J-
Calcium	NL	mg/kg	36,400 J	39,200 J	38,800 J-	40,200 J-	49,600 J-	34,800 J-	35,700 J-
Chromium	111	mg/kg	34.6	29.6	28.1 J-	24.2 J-	41 J-	31.4 J-	32.6 J-
Cobalt	NL	mg/kg	12.9	11.4	10.3 J-	8.9 J-	9.1 J-	12.1 J-	12.8 J-
Copper	149	mg/kg	43.7 J	48.8 J	36.5 J-	40.8 J-	55.2 J-	49.7 J-	42.8 J-
Iron	NL	mg/kg	32,400 J	35,200 J	26,800 J-	22,300 J-	22,800 J-	33,000 J-	32,900 J-
Lead	128	mg/kg	44.7 J	70.6 J	26.8 J-	61.8 J-	68.5 J-	71.2 J-	41.1 J-
Magnesium	NL	mg/kg	11,700 J	11,400 J	11,400 J-	12,100 J-	13,300 J-	10,800 J-	11,800 J-
Manganese	NL	mg/kg	573 J	649 J	426 J-	341 J-	417 J-	482 J-	547 J-
Mercury	1.06	mg/kg	0.35	0.71	0.073 J-	0.2 J-	0.41 J-	0.69 J-	0.3 J-
Nickel	48.6	mg/kg	37.4	32.2	31.5 J-	26.1 J-	27.7 J-	36.9 J-	37.6 J-
Potassium	NL	mg/kg	4,250 J	3,440 J	2,920 J-	2,290 J-	2,100 J-	3,080 J-	4,030 J-
Selenium	NL	mg/kg	5.8 U	4.6 U	6.1 UJ	4.2 UJ	4.3 UJ	5.3 UJ	4.3 UJ
Silver	NL	mg/kg	0.54 J	1 J	0.21 J+	0.53 J+	0.6 J+	0.54 J+	0.34 J+
Sodium	NL	mg/kg	2 U	1.6 U	2.1 UJ	1.4 UJ	1.5 UJ	1.8 UJ	1.5 UJ
Thallium	NL	mg/kg	0.23 U	0.18 U	0.24 UJ	0.17 UJ	0.17 UJ	0.21 UJ	0.17 UJ
Vanadium	NL	mg/kg	53.7 J	46.5 J	38.3 J-	31 J-	30.3 J-	42.9 J-	50.5 J-
Zinc	459	mg/kg	180 J	217 J	122 J-	147 J-	163 J-	224 J-	164 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-78	LMR11-79	LMR11-79	LMR11-79	LMR11-79	LMR11-79	LMR11-80	LMR11-80
		Field Sample ID	LMR11-78-014	LMR11-79-006	LMR11-79-024	LMR11-79-024FS	LMR11-79-054	LMR11-79-054	LMR11-80-006	LMR11-80-024
		Sample Date	8/5/2011	8/4/2011	8/4/2011	8/4/2011	8/4/2011	8/4/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	0- 14	0- 6	6- 24	6- 24	24- 54	24- 54	0- 6	6- 24
Chemical Name	PEC ¹	Unit								
Aluminum	NL	mg/kg	5,220	21,300	21,900	23,700	18,300	9,200 J-	16,700 J-	
Antimony	NL	mg/kg	0.25 J	0.3 UJ	0.3 UJ	0.34 UJ	0.29 UJ	0.17 UJ	0.61 J-	
Arsenic	33	mg/kg	3.7	23 J	21.7 J	19.3 J	22.8 J	9 J-	14.2 J-	
Barium	NL	mg/kg	32.4	179	192	192	153	77.7 J-	130 J-	
Beryllium	NL	mg/kg	0.019 U	1.1	1.1	1.1	0.9	0.5 J-	0.88 J-	
Cadmium	4.98	mg/kg	0.49 J	5.2	7.2	5.5	2.9	1.5 J-	1.5 J-	
Calcium	NL	mg/kg	52,200	28,900	33,900	33,200	33,700	54,200 J-	39,100 J-	
Chromium	111	mg/kg	9.3	77.8	55.6	49.5	55.1	16.2 J-	24.9 J-	
Cobalt	NL	mg/kg	5.9	10.7	12.2	12	10.5	6.2 J-	10.7 J-	
Copper	149	mg/kg	8.3	91.4	102	94.8	68.4	23.3 J-	37.1 J-	
Iron	NL	mg/kg	11,000	31,700	35,300	34,200	26,700	15,600 J-	27,400 J-	
Lead	128	mg/kg	5.3	109 J	167 J	160 J	143 J	30.8 J-	40.5 J-	
Magnesium	NL	mg/kg	12,500	9,230	10,500	10,500	9,700	8,860 J-	11,900 J-	
Manganese	NL	mg/kg	225	515	581	532	469	240 J-	411 J-	
Mercury	1.06	mg/kg	0.014 J	0.47	0.54	0.44	1.4	0.11 J-	0.25 J-	
Nickel	48.6	mg/kg	12.5	37.3	38.6	38.6	31.6	16.8 J-	30.8 J-	
Potassium	NL	mg/kg	988	3,500	3,390	3,970	3,160	1,610 J-	2,560 J-	
Selenium	NL	mg/kg	3.7 U	5 U	5 U	5.7 U	4.8 U	2.9 UJ	4.5 UJ	
Silver	NL	mg/kg	1 U	3.1	2.3	1.7	0.044 U	0.21 J-	0.42 J+	
Sodium	NL	mg/kg	1.3 UJ	1.7 U	1.7 U	2 U	1.7 U	1 UJ	1.5 UJ	
Thallium	NL	mg/kg	0.15 U	0.2 U	0.2 U	0.23 U	0.19 U	0.12 UJ	0.18 UJ	
Vanadium	NL	mg/kg	16.8	46	46.9	52	40.7	22.1 J-	36.6 J-	
Zinc	459	mg/kg	40.4	302	331	291	235	91.9 J-	145 J-	

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-80	LMR11-81	LMR11-81	LMR11-82	LMR11-82	LMR11-82	LMR11-83
		Field Sample ID	LMR11-80-056	LMR11-81-006	LMR11-81-019	LMR11-82-006	LMR11-82-024	LMR11-82-055	LMR11-83-006
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	24- 56	0- 6	6- 19	0- 6	6- 24	24- 55	0- 6
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	6,840 J-	6,680	2,880	13,500 J-	10,200 J-	5,030 J-	15,300
Antimony	NL	mg/kg	0.33 J-	0.22 UJ	0.23 UJ	0.31 UJ	0.3 UJ	0.39 J-	0.74 J
Arsenic	33	mg/kg	6.7 J-	4.2 J	3.5 J	7 J-	5.6 J-	3.5 J-	17
Barium	NL	mg/kg	46.7 J-	42.8	0.069 U	86.9 J-	65.1 J-	28 J-	120
Beryllium	NL	mg/kg	0.016 UJ	0.019 U	0.02 U	0.027 UJ	0.026 UJ	0.018 UJ	0.78
Cadmium	4.98	mg/kg	0.68 J-	0.72	0.012 U	1.2 J-	0.75 J-	0.5 J-	4
Calcium	NL	mg/kg	40,900 J-	46,800	48,700	31,900 J-	40,000 J-	46,100 J-	48,900 J
Chromium	111	mg/kg	11.9 J-	12.4	6.9	20.9 J-	16.5 J-	8.8 J-	48.6
Cobalt	NL	mg/kg	6.4 J-	6.5	0.058 U	8 J-	7.8 J-	5.2 J-	9.2
Copper	149	mg/kg	13 J-	12.3	4.7	22.2 J-	15.8 J-	7.6 J-	54.6 J
Iron	NL	mg/kg	13,100 J-	13,000	7,460	18,500 J-	16,400 J-	9,360 J-	24,800 J
Lead	128	mg/kg	13.5 J-	8 J	5.4 J	17.5 J-	23.1 J-	5.1 J-	67.7 J
Magnesium	NL	mg/kg	12,600 J-	14,000	17,000	9,520 J-	12,400 J-	14,900 J-	12,200 J
Manganese	NL	mg/kg	241 J-	307	208	302 J-	322 J-	217 J-	492 J
Mercury	1.06	mg/kg	0.08 J-	0.016 J	0.011 J	0.05 J-	0.062 J-	0.01 J-	0.24
Nickel	48.6	mg/kg	14.9 J-	16.1	8.9	22.1 J-	19.7 J-	10.6 J-	32.2
Potassium	NL	mg/kg	1,130 J-	1,180	453 J	2,540 J-	1,920 J-	1,080 J-	2,720 J
Selenium	NL	mg/kg	3.2 UJ	3.7 U	3.9 U	5.2 UJ	5 UJ	3.4 UJ	4.6 U
Silver	NL	mg/kg	0.075 J+	0.034 U	1.1 U	0.14 J+	1.4 UJ	0.98 UJ	0.79 J
Sodium	NL	mg/kg	1.1 UJ	1.3 U	1.3 U	1.8 UJ	1.7 UJ	1.2 UJ	1.6 U
Thallium	NL	mg/kg	0.13 UJ	0.15 U	0.16 U	0.21 UJ	0.2 UJ	0.14 UJ	0.18 U
Vanadium	NL	mg/kg	18.7 J-	17.8	10.3	31.7 J-	27.8 J-	16.8 J-	35.6 J
Zinc	459	mg/kg	54.6 J-	42.6	21.9	85 J-	57.4 J-	28.5 J-	158 J

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-83	LMR11-83	LMR11-83	LMR11-83	LMR11-84	LMR11-84	LMR11-84
		Field Sample ID	LMR11-83-024	LMR11-83-048	LMR11-83-072	LMR11-83-087	LMR11-84-006	LMR11-84-024	LMR11-84-048
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	6- 24	24- 48	48- 72	72- 87	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	15,900	9,610	9,200	4,620	11,400 J-	21,800 J-	8,750 J-
Antimony	NL	mg/kg	0.71 J	0.59 J	0.47 J	0.31 J	0.27 UJ	0.31 UJ	0.38 UJ
Arsenic	33	mg/kg	20.2	14.7	9.5	3.2	6.3 J-	9.8 J-	10.9 J-
Barium	NL	mg/kg	130	85	62.7	30.6	83.5 J-	147 J-	73.5 J-
Beryllium	NL	mg/kg	0.86	0.51	0.021 U	0.019 U	0.023 UJ	0.99 J-	0.033 UJ
Cadmium	4.98	mg/kg	4.1	1.8	1.3	0.012 U	1.2 J-	1.9 J-	1.3 J-
Calcium	NL	mg/kg	43,100 J	39,400 J	55,600 J	68,500 J	29,200 J-	39,000 J-	65,800 J-
Chromium	111	mg/kg	53.2	30.5	21	7.7	18 J-	32.2 J-	18.9 J-
Cobalt	NL	mg/kg	10.1	7.5	6.7	5.4	7.1 J-	11.6 J-	0.095 UJ
Copper	149	mg/kg	60.3 J	36.2 J	23.9 J	18.2 J	23.6 J-	39.4 J-	21 J-
Iron	NL	mg/kg	27,700 J	18,400 J	17,300 J	12,700 J	17,900 J-	29,400 J-	21,500 J-
Lead	128	mg/kg	82.8 J	54.9 J	25.1 J	4.6 J	15.8 J-	30.4 J-	22.2 J-
Magnesium	NL	mg/kg	11,700 J	11,100 J	14,600 J	9,020 J	8,490 J-	11,900 J-	15,500 J-
Manganese	NL	mg/kg	511 J	348 J	349 J	565 J	298 J-	471 J-	368 J-
Mercury	1.06	mg/kg	0.31	0.26	0.12 J	0.019 J	0.053 J-	0.084 J-	0.11 J-
Nickel	48.6	mg/kg	33.9	21	18.4	11.4	21 J-	34.8 J-	21.2 J-
Potassium	NL	mg/kg	2,580 J	1,500 J	1,800 J	848 J	1,880 J-	3,890 J-	1,600 J-
Selenium	NL	mg/kg	5.6 U	3.5 U	4 U	3.7 U	4.6 UJ	5.2 UJ	6.4 UJ
Silver	NL	mg/kg	1.2 J	0.47 J	0.31 J	1.1 U	0.11 J+	0.22 J+	0.085 J+
Sodium	NL	mg/kg	1.9 U	1.2 U	1.4 U	1.3 U	1.6 UJ	1.8 UJ	2.2 UJ
Thallium	NL	mg/kg	0.23 U	0.14 U	0.16 U	0.15 U	0.18 UJ	0.21 UJ	0.25 UJ
Vanadium	NL	mg/kg	36.4 J	24.1 J	26.5 J	20.1 J	25.5 J-	46.5 J-	25.3 J-
Zinc	459	mg/kg	198 J	132 J	84.8 J	36 J	82 J-	136 J-	66.4 J-

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-84	LMR11-84	LMR11-84	LMR11-84	LMR11-85	LMR11-85	LMR11-85
		Field Sample ID	LMR11-84-072	LMR11-84-072DP	LMR11-84-096	LMR11-84-115	LMR11-85-006	LMR11-85-024	LMR11-85-048
		Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
		Depth Interval (in bss)	48- 72	48- 72	72- 96	96- 115	0- 6	6- 24	24- 48
Chemical Name	PEC ¹	Unit							
Aluminum	NL	mg/kg	10,600 J-	13,100	9,930 J-	12,400	15,100	18,900	18,300
Antimony	NL	mg/kg	0.24 UJ	8.1 UJ	0.28 UJ	0.38 J	0.3 UJ	0.29 UJ	0.32 UJ
Arsenic	33	mg/kg	13 J-	14.8	13.6 J-	15.7	17.8 J	20.8 J	15.4 J
Barium	NL	mg/kg	111 J-	134	107 J-	117	128	150	126
Beryllium	NL	mg/kg	0.64 J-	0.84	0.71 J-	0.89	0.81	0.94	0.95
Cadmium	4.98	mg/kg	2.6 J-	3 J	2.5 J-	2.3 J	3.6	3.8	2
Calcium	NL	mg/kg	36,200 J-	43,000	38,500 J-	34,400	43,300	37,700	70,200
Chromium	111	mg/kg	28.1 J-	32.7	27.3 J-	28.9	50	56.8	33.3
Cobalt	NL	mg/kg	7.3 J-	8.9	7.8 J-	8.4	9.5	10.6	10.7
Copper	149	mg/kg	35.6 J-	38.7	35.6 J-	34.4	51	55.7	40.9
Iron	NL	mg/kg	22,600 J-	28,400	23,700 J-	29,700	23,700	27,500	29,700
Lead	128	mg/kg	29.4 J-	35.3	27.4 J-	30.8	57 J	66.4 J	36.9 J
Magnesium	NL	mg/kg	10,900 J-	10,500	9,100 J-	8,990	11,200	10,800	17,200
Manganese	NL	mg/kg	301 J-	426	312 J-	320	469	481	598
Mercury	1.06	mg/kg	0.16 J-	0.19	0.2 J-	0.23	0.17	0.18	0.15 J
Nickel	48.6	mg/kg	21.5 J-	26.9	23.4 J-	25.4	30.9	33.4	31.7
Potassium	NL	mg/kg	1,930 J-	2,110	1,620 J-	2,130	2,730	3,360	3,830
Selenium	NL	mg/kg	1.2 J-	4.8 U	4.7 UJ	4.3 U	5 U	4.8 U	5.3 U
Silver	NL	mg/kg	0.36 J+	0.36 J	0.35 J+	0.39 J	0.045 U	0.044 U	0.049 U
Sodium	NL	mg/kg	1.4 UJ	1.6 UJ	1.6 UJ	1.5 UJ	1.7 U	1.7 U	1.8 U
Thallium	NL	mg/kg	0.16 UJ	0.19 U	0.19 UJ	0.17 U	0.2 U	0.19 U	0.21 U
Vanadium	NL	mg/kg	26.5 J-	31.8	24.9 J-	31.1	35.3	40.7	44.5
Zinc	459	mg/kg	83.7 J-	107	84.7 J-	103	142	186	128

Table B-2
Sediment Sample Analytical Results - TAL Metals
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-85
		Field Sample ID	LMR11-85-074
		Sample Date	8/5/2011
		Depth Interval (in bss)	48- 74
Chemical Name	PEC ¹	Unit	
Aluminum	NL	mg/kg	10,500
Antimony	NL	mg/kg	0.31 UJ
Arsenic	33	mg/kg	9.8 J
Barium	NL	mg/kg	76.5
Beryllium	NL	mg/kg	0.027 U
Cadmium	4.98	mg/kg	1.4
Calcium	NL	mg/kg	55,000
Chromium	111	mg/kg	22.6
Cobalt	NL	mg/kg	7.5
Copper	149	mg/kg	24.6
Iron	NL	mg/kg	19,800
Lead	128	mg/kg	28 J
Magnesium	NL	mg/kg	15,700
Manganese	NL	mg/kg	393
Mercury	1.06	mg/kg	0.09 J
Nickel	48.6	mg/kg	20.9
Potassium	NL	mg/kg	1,940
Selenium	NL	mg/kg	5.2 U
Silver	NL	mg/kg	0.047 U
Sodium	NL	mg/kg	1.8 U
Thallium	NL	mg/kg	0.21 U
Vanadium	NL	mg/kg	27.7
Zinc	459	mg/kg	101

Notes:

- Result exceeds PEC
- DP - Duplicate
- FS - Field split
- ID - Identification
- in bss - Inches below sediment surface
- J - Estimated value
- J+ - Estimated value, biased high
- J- - Estimated value, biased low
- mg/kg - milligram per kilogram
- NL - Not Listed
- PEC - Probable Effect Concentration
- U - Not detected
- ¹ Consensus-based PEC values (2000)

Table B-3
Sediment Sample Analytical Results - PCBs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-02	LMR11-12	LMR11-15	LMR11-15	LMR11-16	LMR11-20
		Field Sample ID	LMR11-02-006	LMR11-12-006	LMR11-15-048	LMR11-15-048-DP	LMR11-16-024	LMR11-20-024
		Sample Date	8/2/2011	8/3/2011	8/9/2011	8/9/2011	8/9/2011	8/5/2011
		Depth Interval (in bss)	0- 6	0- 6	24- 48	24- 48	6- 24	6- 24
Chemical Name	PEC ¹	Unit						
AROCLOR-1016	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1221	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1232	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1242	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1248	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1254	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1260	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1262	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
AROCLOR-1268	NL	µg/kg	47 U	82 U	54 U	54 U	64 U	67 UJ
Total PCB	676	µg/kg	0 U	0 U	0 U	0 U	0 U	0 U

Table B-3
Sediment Sample Analytical Results - PCBs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-23	LMR11-23	LMR11-24	LMR11-25	LMR11-25	LMR11-26
		Field Sample ID	LMR11-23-006	LMR11-23-024	LMR11-24-048	LMR11-25-006	LMR11-25-048	LMR11-26-024
		Sample Date	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/10/2011
		Depth Interval (in bss)	0- 6	6- 24	24- 48	0- 6	24- 48	6- 24
Chemical Name	PEC ¹	Unit						
AROCLOR-1016	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1221	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1232	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1242	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1248	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1254	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1260	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1262	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
AROCLOR-1268	NL	µg/kg	74 U	64 U	58 U	67 U	60 U	58 U
Total PCB	676	µg/kg	0 U	0 U	0 U	0 U	0 U	0 U

**Table B-3
Sediment Sample Analytical Results - PCBs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio**

		Location ID	LMR11-27	LMR11-28	LMR11-32	LMR11-32	LMR11-35	LMR11-35
		Field Sample ID	LMR11-27-048	LMR11-28-034	LMR11-32-072	LMR11-32-096	LMR11-35-006	LMR11-35-072
		Sample Date	8/11/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	24- 48	6- 34	48- 72	72- 96	0- 6	48- 72
Chemical Name	PEC ¹	Unit						
AROCLOR-1016	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1221	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1232	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1242	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1248	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1254	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1260	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1262	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
AROCLOR-1268	NL	µg/kg	52 U	42 U	46 U	46 U	64 U	62 U
Total PCB	676	µg/kg	0 U	0 U	0 U	0 U	0 U	0 U

**Table B-3
Sediment Sample Analytical Results - PCBs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio**

		Location ID	LMR11-36	LMR11-37	LMR11-37	LMR11-40	LMR11-48	LMR11-50
		Field Sample ID	LMR11-36-006	LMR11-37-048	LMR11-37-048-DP	LMR11-40-024	LMR11-48-048	LMR11-50-006
		Sample Date	8/4/2011	8/10/2011	8/10/2011	8/10/2011	8/8/2011	8/8/2011
		Depth Interval (in bss)	0- 6	24- 48	24- 48	6- 24	24- 48	0- 6
Chemical Name	PEC ¹	Unit						
AROCLOR-1016	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1221	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1232	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1242	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1248	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1254	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1260	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1262	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
AROCLOR-1268	NL	µg/kg	52 U	60 U	61 U	42 U	60 U	73 U
Total PCB	676	µg/kg	0 U	0 U	0 U	0 U	0 U	0 U

**Table B-3
Sediment Sample Analytical Results - PCBs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio**

		Location ID	LMR11-59	LMR11-66	LMR11-70	LMR11-71	LMR11-71	LMR11-75
		Field Sample ID	LMR11-59-024	LMR11-66-024	LMR11-70-024	LMR11-71-024	LMR11-71-024FS	LMR11-75-024
		Sample Date	8/6/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011	8/5/2011
		Depth Interval (in bss)	6- 24	6- 24	6- 24	6- 24	6- 24	6- 24
Chemical Name	PEC ¹	Unit						
AROCLOR-1016	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1221	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1232	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1242	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1248	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1254	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1260	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1262	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
AROCLOR-1268	NL	µg/kg	63 U	62 UJ	72 UJ	67 UJ	67 UJ	58 UJ
Total PCB	676	µg/kg	0 U	0 U	0 U	0 U	0 U	0 U

**Table B-3
Sediment Sample Analytical Results - PCBs
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio**

		Location ID	LMR11-76	LMR11-79	LMR11-79
		Field Sample ID	LMR11-76-024	LMR11-79-024	LMR11-79-024FS
		Sample Date	8/5/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	6- 24	6- 24	6- 24
Chemical Name	PEC ¹	Unit			
AROCLOR-1016	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1221	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1232	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1242	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1248	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1254	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1260	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1262	NL	µg/kg	55 U	60 U	61 U
AROCLOR-1268	NL	µg/kg	55 U	60 U	61 U
Total PCB	676	µg/kg	0 U	0 U	0 U

Notes:

- µg/kg - Microgram per kilogram
- DP - Duplicate
- FS - Field split
- ID - Identification
- in bss - Inches below sediment surface
- J - Estimated value
- NL - Not Listed
- PCB - Polychlorinated biphenyl
- PEC - Probable Effect Concentration
- U - Not detected
- ¹ Consensus-based PEC values (2000)

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-02	LMR11-12	LMR11-15	LMR11-15	LMR11-16
		Field Sample ID	LMR11-02-006	LMR11-12-006	LMR11-15-048	LMR11-15-048-DP	LMR11-16-024
		Sample Date	8/2/2011	8/3/2011	8/9/2011	8/9/2011	8/9/2011
		Depth Interval (in bss)	0- 6	0- 6	24- 48	24- 48	6- 24
Chemical Name	PEC ¹	Unit					
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		24 U	42 U	28 U	28 U	33 U
4,4'-DDD	28	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
4,4'-DDE	31.3	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
4,4'-DDT	62.9	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
ALDRIN	NL	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
ALPHA-BHC	NL	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
ALPHA-CHLORDANE	17.6	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
BETA-BHC	NL	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
CAMPHECHLOR	NL	µg/kg	240 U	420 U	280 U	280 U	330 U
DELTA-BHC	NL	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
DIELDRIN	61.8	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
ENDOSULFAN I	NL	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
ENDOSULFAN II	NL	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
ENDOSULFAN SULFATE	NL	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
ENDRIN	207	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
ENDRIN ALDEHYDE	NL	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
ENDRIN KETONE	NL	µg/kg	4.7 U	8.2 U	5.4 U	5.4 U	6.3 U
GAMMA-BHC (LINDANE)	4.99	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U
GAMMA-CHLORDANE	17.6	µg/kg	12	4.2 U	2.8 U	2.8 U	3.3 U
HEPTACHLOR	NL	µg/kg	2.4 U	2.7 J	2.8 U	2.8 U	3.3 U
HEPTACHLOR EPOXIDE	16	µg/kg	2.4 U	4.2 U	2.8 U	2.8 U	3.3 U

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-20	LMR11-23	LMR11-23	LMR11-24	LMR11-25
		Field Sample ID	LMR11-20-024	LMR11-23-006	LMR11-23-024	LMR11-24-048	LMR11-25-006
		Sample Date	8/5/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
		Depth Interval (in bss)	6- 24	0- 6	6- 24	24- 48	0- 6
Chemical Name	PEC ¹	Unit					
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		34 UJ	38 U	33 U	30 U	34 U
4,4'-DDD	28	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
4,4'-DDE	31.3	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
4,4'-DDT	62.9	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
ALDRIN	NL	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
ALPHA-BHC	NL	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
ALPHA-CHLORDANE	17.6	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
BETA-BHC	NL	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	1.7 J
CAMPHECHLOR	NL	µg/kg	340 UJ	380 U	330 U	300 U	340 U
DELTA-BHC	NL	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
DIELDRIN	61.8	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
ENDOSULFAN I	NL	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
ENDOSULFAN II	NL	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
ENDOSULFAN SULFATE	NL	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
ENDRIN	207	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
ENDRIN ALDEHYDE	NL	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
ENDRIN KETONE	NL	µg/kg	6.6 UJ	7.4 U	6.4 U	5.9 U	6.6 U
GAMMA-BHC (LINDANE)	4.99	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
GAMMA-CHLORDANE	17.6	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
HEPTACHLOR	NL	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U
HEPTACHLOR EPOXIDE	16	µg/kg	3.4 UJ	3.8 U	3.3 U	3 U	3.4 U

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-25	LMR11-26	LMR11-27	LMR11-28	LMR11-32
		Field Sample ID	LMR11-25-048	LMR11-26-024	LMR11-27-048	LMR11-28-034	LMR11-32-072
		Sample Date	8/11/2011	8/10/2011	8/11/2011	8/10/2011	8/10/2011
		Depth Interval (in bss)	24- 48	6- 24	24- 48	6- 34	48- 72
Chemical Name	PEC ¹	Unit					
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		31 U	29 U	28 U	22 U	24 U
4,4'-DDD	28	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
4,4'-DDE	31.3	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
4,4'-DDT	62.9	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
ALDRIN	NL	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
ALPHA-BHC	NL	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
ALPHA-CHLORDANE	17.6	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
BETA-BHC	NL	µg/kg	2.6 J	2.9 U	2.8 U	2.2 U	2.4 U
CAMPHECHLOR	NL	µg/kg	310 U	290 U	280 U	220 U	240 U
DELTA-BHC	NL	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
DIELDRIN	61.8	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
ENDOSULFAN I	NL	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
ENDOSULFAN II	NL	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
ENDOSULFAN SULFATE	NL	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
ENDRIN	207	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
ENDRIN ALDEHYDE	NL	µg/kg	5.9 U	3.4 J	5.4 U	4.2 U	4.6 U
ENDRIN KETONE	NL	µg/kg	5.9 U	5.7 U	5.4 U	4.2 U	4.6 U
GAMMA-BHC (LINDANE)	4.99	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
GAMMA-CHLORDANE	17.6	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U
HEPTACHLOR	NL	µg/kg	3.1 U	1.9 J	2.8 U	2.2 U	2.4 U
HEPTACHLOR EPOXIDE	16	µg/kg	3.1 U	2.9 U	2.8 U	2.2 U	2.4 U

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-32	LMR11-35	LMR11-35	LMR11-36	LMR11-37
		Field Sample ID	LMR11-32-096	LMR11-35-006	LMR11-35-072	LMR11-36-006	LMR11-37-048
		Sample Date	8/10/2011	8/10/2011	8/10/2011	8/4/2011	8/10/2011
		Depth Interval (in bss)	72- 96	0- 6	48- 72	0- 6	24- 48
Chemical Name	PEC ¹	Unit					
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		23 U	33 U	32 U	27 U	32 U
4,4'-DDD	28	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
4,4'-DDE	31.3	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
4,4'-DDT	62.9	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
ALDRIN	NL	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
ALPHA-BHC	NL	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
ALPHA-CHLORDANE	17.6	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
BETA-BHC	NL	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
CAMPHECHLOR	NL	µg/kg	230 U	330 U	320 U	270 U	320 U
DELTA-BHC	NL	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
DIELDRIN	61.8	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
ENDOSULFAN I	NL	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
ENDOSULFAN II	NL	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
ENDOSULFAN SULFATE	NL	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
ENDRIN	207	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
ENDRIN ALDEHYDE	NL	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
ENDRIN KETONE	NL	µg/kg	4.5 U	6.5 U	6.2 U	5.1 U	6.2 U
GAMMA-BHC (LINDANE)	4.99	µg/kg	2.2 J	3.3 U	3.2 U	2.7 U	3.2 U
GAMMA-CHLORDANE	17.6	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
HEPTACHLOR	NL	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U
HEPTACHLOR EPOXIDE	16	µg/kg	2.3 U	3.3 U	3.2 U	2.7 U	3.2 U

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-37	LMR11-40	LMR11-48	LMR11-50	LMR11-59
		Field Sample ID	LMR11-37-048-DP	LMR11-40-024	LMR11-48-048	LMR11-50-006	LMR11-59-024
		Sample Date	8/10/2011	8/10/2011	8/8/2011	8/8/2011	8/6/2011
		Depth Interval (in bss)	24- 48	6- 24	24- 48	0- 6	6- 24
Chemical Name	PEC ¹	Unit					
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		31 U	21 U	31 U	38 U	32 U
4,4'-DDD	28	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
4,4'-DDE	31.3	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
4,4'-DDT	62.9	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
ALDRIN	NL	µg/kg	3.1 U	2.1 U	3.1 U	2 J	3.2 U
ALPHA-BHC	NL	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U
ALPHA-CHLORDANE	17.6	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U
BETA-BHC	NL	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	2.4 J
CAMPHECHLOR	NL	µg/kg	310 U	210 U	310 U	380 U	320 U
DELTA-BHC	NL	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U
DIELDRIN	61.8	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
ENDOSULFAN I	NL	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U
ENDOSULFAN II	NL	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
ENDOSULFAN SULFATE	NL	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
ENDRIN	207	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
ENDRIN ALDEHYDE	NL	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
ENDRIN KETONE	NL	µg/kg	6.1 U	4.2 U	6 U	7.4 U	6.2 U
GAMMA-BHC (LINDANE)	4.99	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U
GAMMA-CHLORDANE	17.6	µg/kg	3.1 U	2.1 U	3.1 U	5.1 R	3.2 U
HEPTACHLOR	NL	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U
HEPTACHLOR EPOXIDE	16	µg/kg	3.1 U	2.1 U	3.1 U	3.8 U	3.2 U

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-66	LMR11-70	LMR11-71	LMR11-71	LMR11-75
		Field Sample ID	LMR11-66-024	LMR11-70-024	LMR11-71-024	LMR11-71-024FS	LMR11-75-024
		Sample Date	8/7/2011	8/7/2011	8/6/2011	8/6/2011	8/5/2011
		Depth Interval (in bss)	6- 24	6- 24	6- 24	6- 24	6- 24
Chemical Name	PEC ¹	Unit					
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		32 UJ	36 UJ	35 UJ	35 UJ	30 UJ
4,4'-DDD	28	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
4,4'-DDE	31.3	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
4,4'-DDT	62.9	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
ALDRIN	NL	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
ALPHA-BHC	NL	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
ALPHA-CHLORDANE	17.6	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
BETA-BHC	NL	µg/kg	1.8 J	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
CAMPHECHLOR	NL	µg/kg	320 UJ	360 UJ	350 UJ	350 UJ	300 UJ
DELTA-BHC	NL	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
DIELDRIN	61.8	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
ENDOSULFAN I	NL	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
ENDOSULFAN II	NL	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
ENDOSULFAN SULFATE	NL	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
ENDRIN	207	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
ENDRIN ALDEHYDE	NL	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
ENDRIN KETONE	NL	µg/kg	6.2 UJ	7.1 UJ	6.7 UJ	6.7 UJ	5.8 UJ
GAMMA-BHC (LINDANE)	4.99	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
GAMMA-CHLORDANE	17.6	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
HEPTACHLOR	NL	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ
HEPTACHLOR EPOXIDE	16	µg/kg	3.2 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3 UJ

Table B-4
Sediment Sample Analytical Results - Pesticides
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

		Location ID	LMR11-76	LMR11-79	LMR11-79
		Field Sample ID	LMR11-76-024	LMR11-79-024	LMR11-79-024FS
		Sample Date	8/5/2011	8/4/2011	8/4/2011
		Depth Interval (in bss)	6- 24	6- 24	6- 24
Chemical Name	PEC ¹	Unit			
1,1,1-TRICHLORO-2,2-BIS (P-METHOXYPHENYL)-ETHANE	NL		28 U	31 U	32 U
4,4'-DDD	28	µg/kg	5.5 U	6.1 U	6.2 U
4,4'-DDE	31.3	µg/kg	5.5 U	6.1 U	6.2 U
4,4'-DDT	62.9	µg/kg	5.5 U	6.1 U	6.2 U
ALDRIN	NL	µg/kg	2.8 U	3.1 U	3.2 U
ALPHA-BHC	NL	µg/kg	2.8 U	3.1 U	3.2 U
ALPHA-CHLORDANE	17.6	µg/kg	2.8 U	3.1 U	3.2 U
BETA-BHC	NL	µg/kg	2.8 U	3.1 U	3.2 U
CAMPHECHLOR	NL	µg/kg	280 U	310 U	320 U
DELTA-BHC	NL	µg/kg	2.8 U	3.1 U	3.2 U
DIELDRIN	61.8	µg/kg	5.5 U	6.1 U	6.2 U
ENDOSULFAN I	NL	µg/kg	2.8 U	3.1 U	3.2 U
ENDOSULFAN II	NL	µg/kg	5.5 U	6.1 U	6.2 U
ENDOSULFAN SULFATE	NL	µg/kg	5.5 U	6.1 U	6.2 U
ENDRIN	207	µg/kg	5.5 U	6.1 U	6.2 U
ENDRIN ALDEHYDE	NL	µg/kg	5.5 U	6.1 U	6.2 U
ENDRIN KETONE	NL	µg/kg	5.5 U	6.1 U	6.2 U
GAMMA-BHC (LINDANE)	4.99	µg/kg	2.8 U	3.1 U	3.2 U
GAMMA-CHLORDANE	17.6	µg/kg	2.8 U	3.1 U	3.2 U
HEPTACHLOR	NL	µg/kg	2.8 U	3.1 U	3.2 U
HEPTACHLOR EPOXIDE	16	µg/kg	2.8 U	3.1 U	3.2 U

Notes:

- µg/kg - Microgram per kilogram
- DP - Duplicate
- FS - Field split
- ID - Identification
- in bss - Inches below sediment surface
- J - Estimated value
- NL - Not Listed
- PEC - Probable Effect Concentration
- U - Not detected
- ¹ Consensus-based PEC values (2000)

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-01	LMR11-01	LMR11-01	LMR11-01	LMR11-02	LMR11-03
	Field Sample ID	LMR11-01-006	LMR11-01-024	LMR11-01-048	LMR11-01-060	LMR11-02-006	LMR11-03-006
	Sample Date	8/2/2011	8/5/2011	8/5/2011	8/5/2011	8/2/2011	8/3/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 60	0- 6	0- 6
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	4.4	6.2	0.3	0.4
Sand	%	12.5	2.1	18.3	75.8	86.9	37.1
Silt	%	40.7	31.7	27.5	6.3	3.8	40.5
Clay	%	46.8	66.2	49.8	11.7	9.1	22
Coarse Sand	%	0	0	1.9	16.4	1	0.8
Medium Sand	%	0.4	0.2	5.2	34.8	6.1	0.6
Fine Sand	%	12.1	1.9	11.2	24.6	79.8	35.7
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	96.5	99.3	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	95.6	93.8	99.7	99.6
Sieve Size #10 - Percent Finer	% PASSED	100	100	93.7	77.4	98.7	98.8
Sieve Size #20 - Percent Finer	% PASSED	99.9	99.9	91.8	56.8	97.4	98.6
Sieve Size #40 - Percent Finer	% PASSED	99.6	99.8	88.5	42.6	92.6	98.2
Sieve Size #60 - Percent Finer	% PASSED	97.5	99.6	85.2	36.6	35.3	97.2
Sieve Size #80 - Percent Finer	% PASSED	95.1	99.2	81.1	24.6	15.9	94.2
Sieve Size #100 - Percent Finer	% PASSED	93.5	99	80	21.5	13.7	90.3
Sieve Size #200 - Percent Finer	% PASSED	87.5	97.9	77.3	18	12.8	62.5
Hydrometer Reading 1 - Percent Finer	% PASSED	75.9	92.1	69.7	16.2	13.5	34.2
Hydrometer Reading 2 - Percent Finer	% PASSED	70.1	86.9	64.7	15.1	12	32
Hydrometer Reading 3 - Percent Finer	% PASSED	61.3	78.3	59.8	13.6	11.3	27.6
Hydrometer Reading 4 - Percent Finer	% PASSED	54.1	74.8	54.8	12.8	10.5	25.3
Hydrometer Reading 5 - Percent Finer	% PASSED	46.8	66.2	49.8	11.7	9.1	22
Hydrometer Reading 6 - Percent Finer	% PASSED	38.1	55.6	41.6	9.8	7.6	17.6
Hydrometer Reading 7 - Percent Finer	% PASSED	26.4	43.5	33.3	7.9	5.3	14.4
TOC							
TOC	mg/kg	25,000	23,600	18,800	11,300	10,900 J	28,600

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-03	LMR11-03	LMR11-03	LMR11-04	LMR11-05	LMR11-05
	Field Sample ID	LMR11-03-024	LMR11-03-048	LMR11-03-059	LMR11-04-006	LMR11-05-006	LMR11-05-018
	Sample Date	8/3/2011	8/3/2011	8/3/2011	8/3/2011	8/4/2011	8/4/2011
	Depth Interval (in bss)	6- 24	24- 48	48- 59	0- 6	0- 6	6- 18
Chemical Name	Unit						
Grain Size							
Gravel	%	0.5	0	0.4	1.1	5.5	0
Sand	%	12.5	7.4	32.3	84.9	34.8	12.2
Silt	%	47.5	41.2	32.9	3.6	26.2	32.6
Clay	%	39.5	51.4	34.4	10.4	33.5	55.2
Coarse Sand	%	0.5	0	0.1	1.7	4.1	0
Medium Sand	%	1.2	1.3	1.9	9.7	6.4	1.6
Fine Sand	%	10.8	6.1	30.3	73.5	24.3	10.6
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.5	100	99.6	98.9	94.5	100
Sieve Size #10 - Percent Finer	% PASSED	99	100	99.5	97.2	90.4	100
Sieve Size #20 - Percent Finer	% PASSED	98.8	99.3	98.8	94.4	87.1	99.3
Sieve Size #40 - Percent Finer	% PASSED	97.8	98.7	97.6	87.5	84	98.4
Sieve Size #60 - Percent Finer	% PASSED	96.7	98.3	94	32.8	79.3	97.2
Sieve Size #80 - Percent Finer	% PASSED	95.7	97.9	88.2	16.9	74	95.7
Sieve Size #100 - Percent Finer	% PASSED	94.8	97.5	83.3	15	70.2	94.4
Sieve Size #200 - Percent Finer	% PASSED	87	92.6	67.3	14	59.7	87.8
Hydrometer Reading 1 - Percent Finer	% PASSED	58.3	72.5	50.6	14.1	47.2	76.6
Hydrometer Reading 2 - Percent Finer	% PASSED	53.9	69.2	46.9	14.1	44.2	72.6
Hydrometer Reading 3 - Percent Finer	% PASSED	48.4	62.7	41.9	12.9	40.3	65.9
Hydrometer Reading 4 - Percent Finer	% PASSED	43.9	56.2	38.2	12.3	38.4	60.6
Hydrometer Reading 5 - Percent Finer	% PASSED	39.5	51.4	34.4	10.4	33.5	55.2
Hydrometer Reading 6 - Percent Finer	% PASSED	31.8	43.3	28.2	9.2	27.6	45.8
Hydrometer Reading 7 - Percent Finer	% PASSED	25.1	31.9	22	6.2	20.7	36.4
TOC							
TOC	mg/kg	33,900	46,000	36,200	18,100	16,900	18,000

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-06	LMR11-06	LMR11-06	LMR11-07	LMR11-08	LMR11-08
	Field Sample ID	LMR11-06-006	LMR11-06-024	LMR11-06-052	LMR11-07-006	LMR11-08-006	LMR11-08-024
	Sample Date	8/3/2011	8/3/2011	8/3/2011	8/3/2011	8/3/2011	8/5/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 52	0- 6	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	2.6	0	0
Sand	%	20	2.9	6.4	66.3	12.9	2.8
Silt	%	34.3	36	40.5	10.5	42.7	30.3
Clay	%	45.7	61.1	53.1	20.6	44.4	66.9
Coarse Sand	%	0	0	0	4.4	0.3	0
Medium Sand	%	2.4	0.5	0.9	23.4	1.1	0.3
Fine Sand	%	17.6	2.4	5.5	38.5	11.5	2.5
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	97.4	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	100	93	99.7	100
Sieve Size #20 - Percent Finer	% PASSED	98.5	99.7	99.6	85.6	99.3	99.8
Sieve Size #40 - Percent Finer	% PASSED	97.6	99.5	99.1	69.6	98.6	99.7
Sieve Size #60 - Percent Finer	% PASSED	96	99.3	98.3	44.9	97.2	99.5
Sieve Size #80 - Percent Finer	% PASSED	93.6	99	97.3	34.4	94.8	99.1
Sieve Size #100 - Percent Finer	% PASSED	90.3	98.7	96.6	32	93	98.8
Sieve Size #200 - Percent Finer	% PASSED	80	97.1	93.6	31.1	87.1	97.2
Hydrometer Reading 1 - Percent Finer	% PASSED	70.7	89.1	77.5	28.7	66.1	93.1
Hydrometer Reading 2 - Percent Finer	% PASSED	64.4	82.9	72.6	27.5	61.3	87.9
Hydrometer Reading 3 - Percent Finer	% PASSED	58.2	76.7	66.1	25	54.2	79.1
Hydrometer Reading 4 - Percent Finer	% PASSED	55	68.9	59.6	22.5	49.2	73.9
Hydrometer Reading 5 - Percent Finer	% PASSED	45.7	61.1	53.1	20.6	44.4	66.9
Hydrometer Reading 6 - Percent Finer	% PASSED	37.8	51.7	43.3	16.9	34.9	54.4
Hydrometer Reading 7 - Percent Finer	% PASSED	30	39.2	33.6	12.6	25.3	42.2
TOC							
TOC	mg/kg	35,800	24,400	23,900	7,180	27,700	27,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-08	LMR11-10	LMR11-10	LMR11-10	LMR11-11	LMR11-11
	Field Sample ID	LMR11-08-052	LMR11-10-006	LMR11-10-024	LMR11-10-045	LMR11-11-006	LMR11-11-024
	Sample Date	8/5/2011	8/4/2011	8/4/2011	8/4/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	24- 52	0- 6	6- 24	24- 45	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	4.1	0.6	NA	0
Sand	%	4	89.3	55	64.7	NA	68.5
Silt	%	25.8	4.6	16.6	17.2	NA	16.9
Clay	%	70.2	6.2	24.3	17.5	NA	14.6
Coarse Sand	%	0	0	1.1	1.2	NA	0.8
Medium Sand	%	0.2	3.3	7.9	16	NA	2.9
Fine Sand	%	3.8	86	46	47.5	NA	64.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	NA	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	NA	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	NA	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	NA	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	NA	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	95.9	100	NA	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	95.9	99.4	NA	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	94.8	98.2	NA	99.2
Sieve Size #20 - Percent Finer	% PASSED	99.9	99.3	92.7	94.2	NA	97.9
Sieve Size #40 - Percent Finer	% PASSED	99.8	96.7	86.9	82.2	NA	96.3
Sieve Size #60 - Percent Finer	% PASSED	99.4	84.5	74.3	64	NA	91.8
Sieve Size #80 - Percent Finer	% PASSED	98.4	63	63.4	53.9	NA	83
Sieve Size #100 - Percent Finer	% PASSED	98	44.6	55.7	48	NA	69.6
Sieve Size #200 - Percent Finer	% PASSED	96	10.7	40.9	34.7	NA	31.5
Hydrometer Reading 1 - Percent Finer	% PASSED	92.8	9	35	27.5	NA	22.3
Hydrometer Reading 2 - Percent Finer	% PASSED	87.1	8.5	33.2	24.9	NA	20.9
Hydrometer Reading 3 - Percent Finer	% PASSED	81.5	8	29.6	21.5	NA	18.8
Hydrometer Reading 4 - Percent Finer	% PASSED	75.9	7.6	26.9	18.8	NA	16.7
Hydrometer Reading 5 - Percent Finer	% PASSED	70.2	6.2	24.3	17.5	NA	14.6
Hydrometer Reading 6 - Percent Finer	% PASSED	56.7	5.1	20.7	14.2	NA	11
Hydrometer Reading 7 - Percent Finer	% PASSED	45.4	4.3	15.3	10.8	NA	8.2
TOC							
TOC	mg/kg	22,200	9,830	11,300	16,100	9,010	19,200

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-11	LMR11-12	LMR11-13	LMR11-13	LMR11-14	LMR11-14
	Field Sample ID	LMR11-11-037	LMR11-12-006	LMR11-13-006	LMR11-13-026	LMR11-14-006	LMR11-14-024
	Sample Date	8/5/2011	8/3/2011	8/3/2011	8/3/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	24- 37	0- 6	0- 6	6- 26	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0.7	0	0.9	0	0	0
Sand	%	81	27.6	14.8	26.3	78.7	40.4
Silt	%	11.2	33.6	43	36.3	17.2	32.3
Clay	%	7.1	38.8	41.3	37.4	4.1	27.3
Coarse Sand	%	1.1	1	0.1	0	0	0
Medium Sand	%	6.4	8.7	1.7	1.8	1	2.6
Fine Sand	%	73.5	17.9	13	24.5	77.7	37.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.3	100	99.1	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	98.2	99	99	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	95.8	96	98.5	99.6	99.7	99.3
Sieve Size #40 - Percent Finer	% PASSED	91.8	90.3	97.3	98.2	99	97.4
Sieve Size #60 - Percent Finer	% PASSED	80.5	84.8	94.6	94.6	97.2	90
Sieve Size #80 - Percent Finer	% PASSED	64.5	73.6	92.6	87.6	86.8	81
Sieve Size #100 - Percent Finer	% PASSED	47.7	73.1	91.2	84.8	67.1	74.4
Sieve Size #200 - Percent Finer	% PASSED	18.3	72.4	84.3	73.7	21.3	59.6
Hydrometer Reading 1 - Percent Finer	% PASSED	13.1	59.6	71.6	59.3	9.2	44.4
Hydrometer Reading 2 - Percent Finer	% PASSED	11.1	55	64.3	54.7	7.7	39.7
Hydrometer Reading 3 - Percent Finer	% PASSED	9.7	46.9	54.6	47.8	7	36.6
Hydrometer Reading 4 - Percent Finer	% PASSED	9.1	41.1	46.2	42	5.6	32
Hydrometer Reading 5 - Percent Finer	% PASSED	7.1	38.8	41.3	37.4	4.1	27.3
Hydrometer Reading 6 - Percent Finer	% PASSED	5.1	29.6	31.6	28.1	2.7	21.1
Hydrometer Reading 7 - Percent Finer	% PASSED	3.8	21.5	23.2	21.3	1.2	15
TOC							
TOC	mg/kg	13,800	34,400	24,200	19,400	11,400	18,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-14	LMR11-15	LMR11-15	LMR11-15	LMR11-15	LMR11-15
	Field Sample ID	LMR11-14-045	LMR11-15-006	LMR11-15-006-DP	LMR11-15-024	LMR11-15-024-DP	LMR11-15-048
	Sample Date	8/5/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
	Depth Interval (in bss)	24- 45	0- 6	0- 6	6- 24	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0.8	NA	0	NA	0
Sand	%	21.9	26.7	NA	25.1	NA	22.5
Silt	%	46.1	31.7	NA	21.4	NA	34.5
Clay	%	32	40.8	NA	53.5	NA	43
Coarse Sand	%	0	0.6	NA	1.1	NA	0
Medium Sand	%	2.2	3	NA	6.6	NA	2.6
Fine Sand	%	19.7	23.1	NA	17.4	NA	19.9
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size #4 - Percent Finer	% PASSED	100	99.2	NA	100	NA	100
Sieve Size #10 - Percent Finer	% PASSED	100	98.6	NA	98.9	NA	100
Sieve Size #20 - Percent Finer	% PASSED	99.6	98	NA	97.4	NA	99.4
Sieve Size #40 - Percent Finer	% PASSED	97.8	95.6	NA	92.3	NA	97.4
Sieve Size #60 - Percent Finer	% PASSED	95	91.2	NA	86.1	NA	93.1
Sieve Size #80 - Percent Finer	% PASSED	92.6	77.6	NA	77.2	NA	85.1
Sieve Size #100 - Percent Finer	% PASSED	89.9	75.5	NA	76.2	NA	83.3
Sieve Size #200 - Percent Finer	% PASSED	78.1	72.5	NA	74.9	NA	77.5
Hydrometer Reading 1 - Percent Finer	% PASSED	53.7	55.6	NA	74.5	NA	66.5
Hydrometer Reading 2 - Percent Finer	% PASSED	48.3	52.6	NA	71	NA	63.1
Hydrometer Reading 3 - Percent Finer	% PASSED	40.2	49.7	NA	65.8	NA	56.4
Hydrometer Reading 4 - Percent Finer	% PASSED	36.1	45.2	NA	60.5	NA	49.7
Hydrometer Reading 5 - Percent Finer	% PASSED	32	40.8	NA	53.5	NA	43
Hydrometer Reading 6 - Percent Finer	% PASSED	23.9	31.9	NA	44.8	NA	34.6
Hydrometer Reading 7 - Percent Finer	% PASSED	17.2	24.5	NA	36	NA	27.9
TOC							
TOC	mg/kg	25,800	15,000 J	32,500 J	24,600 J	14,200 J	26,000

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-15	LMR11-15	LMR11-15	LMR11-16	LMR11-16	LMR11-16
	Field Sample ID	LMR11-15-048-DP	LMR11-15-072	LMR11-15-104	LMR11-16-006	LMR11-16-024	LMR11-16-048
	Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
	Depth Interval (in bss)	24- 48	48- 72	72- 104	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	NA	0	0	0	0	0.1
Sand	%	NA	4.4	15.5	2.4	0.6	10.1
Silt	%	NA	59.8	46	32.8	30.6	33.2
Clay	%	NA	35.8	38.5	64.8	68.8	56.6
Coarse Sand	%	NA	0	0	0	0	0.4
Medium Sand	%	NA	0.1	0.3	0.5	0.1	1.3
Fine Sand	%	NA	4.3	15.2	1.9	0.5	8.4
Sieve Size 3 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	NA	100	100	100	100	99.9
Sieve Size #10 - Percent Finer	% PASSED	NA	100	100	100	100	99.5
Sieve Size #20 - Percent Finer	% PASSED	NA	100	99.9	99.7	99.9	99
Sieve Size #40 - Percent Finer	% PASSED	NA	99.9	99.7	99.5	99.9	98.2
Sieve Size #60 - Percent Finer	% PASSED	NA	99.7	99.5	99.4	99.9	97.2
Sieve Size #80 - Percent Finer	% PASSED	NA	99.2	98.5	99	99.9	94.4
Sieve Size #100 - Percent Finer	% PASSED	NA	99	97.4	98.7	99.8	92.9
Sieve Size #200 - Percent Finer	% PASSED	NA	95.6	84.5	97.6	99.4	89.8
Hydrometer Reading 1 - Percent Finer	% PASSED	NA	69	68.8	85.9	93.7	74.5
Hydrometer Reading 2 - Percent Finer	% PASSED	NA	61.1	59.7	83.6	91.2	72.7
Hydrometer Reading 3 - Percent Finer	% PASSED	NA	48.4	50.6	78.9	83.8	67.4
Hydrometer Reading 4 - Percent Finer	% PASSED	NA	40.5	44.5	71.8	76.3	60.2
Hydrometer Reading 5 - Percent Finer	% PASSED	NA	35.8	38.5	64.8	68.8	56.6
Hydrometer Reading 6 - Percent Finer	% PASSED	NA	26.3	29.3	53	56.3	47.7
Hydrometer Reading 7 - Percent Finer	% PASSED	NA	21.5	21.8	41.3	43.9	36.9
TOC							
TOC	mg/kg	22,600	27,300	44,200	27,800	28,400	21,900

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-16	LMR11-17	LMR11-17	LMR11-18	LMR11-18	LMR11-18
	Field Sample ID	LMR11-16-072	LMR11-17-006	LMR11-17-021	LMR11-18-006	LMR11-18-024	LMR11-18-048
	Sample Date	8/9/2011	8/4/2011	8/4/2011	8/3/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	48- 72	0- 6	6- 21	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	4.2	0.2	21.8	2	0	0
Sand	%	36.3	95	61.3	54.9	48.7	30.5
Silt	%	42.8	2.7	12.6	21.9	29.4	40.2
Clay	%	16.7	2.2	4.3	21.2	21.9	29.3
Coarse Sand	%	1.4	2.8	5.1	3.8	0	0
Medium Sand	%	5.2	32.8	21.6	0.6	1.9	1.5
Fine Sand	%	29.7	59.4	34.6	50.5	46.8	29
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	87.9	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	96.5	100	84	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	95.8	99.8	78.2	98	100	100
Sieve Size #10 - Percent Finer	% PASSED	94.4	97	73.1	94.2	100	100
Sieve Size #20 - Percent Finer	% PASSED	93.1	89.2	66.1	94	99.3	99.1
Sieve Size #40 - Percent Finer	% PASSED	89.2	64.2	51.5	93.6	98.1	98.5
Sieve Size #60 - Percent Finer	% PASSED	86.4	29.2	34.9	91.7	92.3	97
Sieve Size #80 - Percent Finer	% PASSED	79.7	6.9	22.6	83.3	81.5	91
Sieve Size #100 - Percent Finer	% PASSED	74.3	5.7	20.6	70.5	73.1	85.1
Sieve Size #200 - Percent Finer	% PASSED	59.5	4.9	16.9	43.1	51.3	69.5
Hydrometer Reading 1 - Percent Finer	% PASSED	33.9	2.9	7.8	29.6	33.4	49.9
Hydrometer Reading 2 - Percent Finer	% PASSED	30.9	2.9	7.1	27	30.5	44.3
Hydrometer Reading 3 - Percent Finer	% PASSED	22.8	2.9	6.4	24.5	26.7	38.7
Hydrometer Reading 4 - Percent Finer	% PASSED	19.8	2.9	5.7	22.9	23.8	33.1
Hydrometer Reading 5 - Percent Finer	% PASSED	16.7	2.2	4.3	21.2	21.9	29.3
Hydrometer Reading 6 - Percent Finer	% PASSED	13.7	1.7	3.6	16.9	17	21.8
Hydrometer Reading 7 - Percent Finer	% PASSED	11.7	1.7	2.9	14.4	12.2	18.1
TOC							
TOC	mg/kg	116,000	20,400	5,510	33,100	19,000	53,600 J

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-19	LMR11-19	LMR11-20	LMR11-20	LMR11-20	LMR11-20
	Field Sample ID	LMR11-19-006	LMR11-19-014	LMR11-20-006	LMR11-20-006FS	LMR11-20-024	LMR11-20-048
	Sample Date	8/3/2011	8/3/2011	8/2/2011	8/2/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	0- 6	6- 14	0- 6	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0.9	66.1	0	0	0	0
Sand	%	69.7	23.5	4.5	4.9	1.5	1.9
Silt	%	5.9	6.5	27.9	33.7	38.9	36.1
Clay	%	23.5	3.9	67.6	61.4	59.6	62
Coarse Sand	%	0.9	1.2	0	0	0	0
Medium Sand	%	13.2	3.4	0.4	0.6	0.2	0.4
Fine Sand	%	55.6	18.9	4.1	4.3	1.3	1.5
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	74.2	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	61.7	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	36.7	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.1	33.9	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	98.2	32.7	100	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	95	31.5	99.9	99.8	100	100
Sieve Size #40 - Percent Finer	% PASSED	85	29.3	99.6	99.4	99.8	99.6
Sieve Size #60 - Percent Finer	% PASSED	62.8	22.4	98	97.8	99.6	99.3
Sieve Size #80 - Percent Finer	% PASSED	31.5	17.4	97.1	96.8	99.4	99.1
Sieve Size #100 - Percent Finer	% PASSED	30.1	14.7	96.7	96.5	99.2	98.8
Sieve Size #200 - Percent Finer	% PASSED	29.4	10.4	95.5	95.1	98.5	98.1
Hydrometer Reading 1 - Percent Finer	% PASSED	33.5	5.9	95.1	88	84	85
Hydrometer Reading 2 - Percent Finer	% PASSED	32.6	5.9	89	82.7	80.2	80.9
Hydrometer Reading 3 - Percent Finer	% PASSED	29	4.9	79.8	73.3	72.7	74.6
Hydrometer Reading 4 - Percent Finer	% PASSED	25.3	4.2	73.7	66.7	65.2	66.2
Hydrometer Reading 5 - Percent Finer	% PASSED	23.5	3.9	67.6	61.4	59.6	62
Hydrometer Reading 6 - Percent Finer	% PASSED	19.8	2.9	53.8	50.7	48.3	49.5
Hydrometer Reading 7 - Percent Finer	% PASSED	14.3	2.2	40	36.1	33.2	34.9
TOC							
TOC	mg/kg	26,800	10,500	23,100	19,600	23,800	22,100

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-20	LMR11-21	LMR11-22	LMR11-23	LMR11-23	LMR11-23
	Field Sample ID	LMR11-20-060	LMR11-21-006	LMR11-22-006	LMR11-23-006	LMR11-23-024	LMR11-23-048
	Sample Date	8/5/2011	8/3/2011	8/4/2011	8/11/2011	8/11/2011	8/11/2011
	Depth Interval (in bss)	48- 60	0- 6	0- 6	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0.5	0.4	1	0	0	0
Sand	%	34.8	50.1	51.2	2.5	1	1.1
Silt	%	39.7	21.6	15.7	36.8	39.8	35.7
Clay	%	25	27.9	32.1	60.7	59.2	63.2
Coarse Sand	%	0	0.2	4	0	0	0
Medium Sand	%	2.4	1.5	16.1	0.3	0.1	0
Fine Sand	%	32.4	48.4	31.1	2.2	0.9	1.1
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.5	99.6	99	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.5	99.4	95	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	99	98.9	89.4	99.9	99.9	100
Sieve Size #40 - Percent Finer	% PASSED	97.1	97.9	78.9	99.7	99.9	100
Sieve Size #60 - Percent Finer	% PASSED	89.7	95.9	55.7	99.2	99.8	100
Sieve Size #80 - Percent Finer	% PASSED	82.8	73.7	49.9	99	99.8	100
Sieve Size #100 - Percent Finer	% PASSED	78.6	63.3	48.7	98.9	99.8	99.9
Sieve Size #200 - Percent Finer	% PASSED	64.7	49.5	47.8	97.5	99	98.9
Hydrometer Reading 1 - Percent Finer	% PASSED	47.4	42	47.3	92.7	89	91.9
Hydrometer Reading 2 - Percent Finer	% PASSED	41	39	44.1	85.9	82	87.5
Hydrometer Reading 3 - Percent Finer	% PASSED	34.6	33.9	39.4	76.8	73.2	78.7
Hydrometer Reading 4 - Percent Finer	% PASSED	29.8	30.9	35.2	69.8	66.2	69.9
Hydrometer Reading 5 - Percent Finer	% PASSED	25	27.9	32.1	60.7	59.2	63.2
Hydrometer Reading 6 - Percent Finer	% PASSED	18.6	23.8	26.4	49.3	48.6	52.2
Hydrometer Reading 7 - Percent Finer	% PASSED	12.2	17.8	20	37.9	36.3	39
TOC							
TOC	mg/kg	12,700	21,400	25,300	24,300	22,900	23,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-23	LMR11-23	LMR11-23	LMR11-24	LMR11-24	LMR11-24
	Field Sample ID	LMR11-23-072	LMR11-23-096	LMR11-23-115	LMR11-24-006	LMR11-24-024	LMR11-24-048
	Sample Date	8/11/2011	8/11/2011	8/11/2011	8/4/2011	8/11/2011	8/11/2011
	Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0.8	0.1	0	0
Sand	%	6.3	7.6	41.5	83.6	38	17.3
Silt	%	39.3	34.4	42.4	5.6	20.7	27
Clay	%	54.4	58	15.3	10.7	41.3	55.7
Coarse Sand	%	0	0	0.4	0.6	0.4	0.1
Medium Sand	%	0.2	0.4	5.2	7.9	2.1	0.5
Fine Sand	%	6.1	7.2	35.9	75.1	35.5	16.7
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	99.2	99.9	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	98.8	99.3	99.6	99.9
Sieve Size #20 - Percent Finer	% PASSED	99.9	99.9	97.7	97.9	99.1	99.8
Sieve Size #40 - Percent Finer	% PASSED	99.8	99.6	93.6	91.4	97.5	99.4
Sieve Size #60 - Percent Finer	% PASSED	99.7	97.4	86.4	52.4	87.6	95.5
Sieve Size #80 - Percent Finer	% PASSED	99.5	95	83.3	22.9	73.5	89.4
Sieve Size #100 - Percent Finer	% PASSED	99.1	94.5	80.5	18.2	68.1	86.6
Sieve Size #200 - Percent Finer	% PASSED	93.7	92.4	57.7	16.3	62	82.7
Hydrometer Reading 1 - Percent Finer	% PASSED	81.1	82	31.1	15.1	59.4	80.5
Hydrometer Reading 2 - Percent Finer	% PASSED	76.1	77.6	25.9	14.4	55.8	76.3
Hydrometer Reading 3 - Percent Finer	% PASSED	69.4	73.3	22.4	12.9	49.8	68.1
Hydrometer Reading 4 - Percent Finer	% PASSED	61.1	64.6	18.9	11.4	46.2	61.2
Hydrometer Reading 5 - Percent Finer	% PASSED	54.4	58	15.3	10.7	41.3	55.7
Hydrometer Reading 6 - Percent Finer	% PASSED	44.4	47.2	11.8	9.1	33.9	45.8
Hydrometer Reading 7 - Percent Finer	% PASSED	32.8	36.3	9.3	6.9	26.7	34.7
TOC							
TOC	mg/kg	24,800	18,300	13,400	16,200	14,100	22,600

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-24	LMR11-24	LMR11-25	LMR11-25	LMR11-25	LMR11-25
	Field Sample ID	LMR11-24-072	LMR11-24-096	LMR11-25-006	LMR11-25-024	LMR11-25-048	LMR11-25-072
	Sample Date	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
	Depth Interval (in bss)	48- 72	72- 96	0- 6	6- 24	24- 48	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0	0	0
Sand	%	10.2	3.1	2	0.3	4.8	5.4
Silt	%	38.9	37.3	26	31.5	31.8	34.5
Clay	%	50.9	59.6	72	68.2	63.4	60.1
Coarse Sand	%	0	0	0.2	0	0	0
Medium Sand	%	0.5	0.5	0.1	0	0	0.2
Fine Sand	%	9.7	2.6	1.7	0.3	4.8	5.2
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	99.8	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.9	99.9	99.8	100	100	99.9
Sieve Size #40 - Percent Finer	% PASSED	99.5	99.5	99.7	100	100	99.8
Sieve Size #60 - Percent Finer	% PASSED	98.8	99	99.5	100	100	99.5
Sieve Size #80 - Percent Finer	% PASSED	97.2	98.5	99.5	100	99.8	98.2
Sieve Size #100 - Percent Finer	% PASSED	95.9	98.3	99.4	100	99.3	97.1
Sieve Size #200 - Percent Finer	% PASSED	89.8	96.9	98	99.7	95.2	94.6
Hydrometer Reading 1 - Percent Finer	% PASSED	79	88.3	96.6	93.4	90.2	81
Hydrometer Reading 2 - Percent Finer	% PASSED	73.1	83.2	91.7	89.5	84.4	77.2
Hydrometer Reading 3 - Percent Finer	% PASSED	62.7	74.8	86.8	81.8	76.8	71.5
Hydrometer Reading 4 - Percent Finer	% PASSED	56.8	68	76.9	76	69.1	65.8
Hydrometer Reading 5 - Percent Finer	% PASSED	50.9	59.6	72	68.2	63.4	60.1
Hydrometer Reading 6 - Percent Finer	% PASSED	41.7	49.2	61.8	60.5	55.8	46.8
Hydrometer Reading 7 - Percent Finer	% PASSED	29.9	37.4	47.1	44.9	42.4	35.4
TOC							
TOC	mg/kg	31,100	27,100	23,100	21,300	22,800	19,800

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-25	LMR11-26	LMR11-26	LMR11-26	LMR11-26	LMR11-26
	Field Sample ID	LMR11-25-096	LMR11-26-006	LMR11-26-024	LMR11-26-048	LMR11-26-072	LMR11-26-096
	Sample Date	8/11/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
	Depth Interval (in bss)	72- 96	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0.3	0	0	0	0
Sand	%	20.7	19.7	5.2	2.7	3.3	28.1
Silt	%	44.2	34.1	38	29.9	38.8	38.2
Clay	%	35.1	45.9	56.8	67.4	57.9	33.7
Coarse Sand	%	0	0	0	0	0	0
Medium Sand	%	0.6	2.5	0.5	0.3	0.3	0.9
Fine Sand	%	20.1	17.2	4.7	2.4	3	27.2
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	99.7	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	99.7	100	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.6	98.7	99.8	99.9	99.9	99.6
Sieve Size #40 - Percent Finer	% PASSED	99.4	97.2	99.5	99.7	99.7	99.1
Sieve Size #60 - Percent Finer	% PASSED	98.9	93.7	99.1	99.3	99.5	98.1
Sieve Size #80 - Percent Finer	% PASSED	97.4	91.6	98.6	99	99.3	95.4
Sieve Size #100 - Percent Finer	% PASSED	95.4	89.7	98.1	98.8	99.2	91.6
Sieve Size #200 - Percent Finer	% PASSED	79.3	80	94.8	97.3	96.7	71.9
Hydrometer Reading 1 - Percent Finer	% PASSED	57.9	70.7	83.9	95.9	88.8	58.4
Hydrometer Reading 2 - Percent Finer	% PASSED	52.2	64.5	80.7	89.6	83.7	51.5
Hydrometer Reading 3 - Percent Finer	% PASSED	45.1	56.7	71.2	80.1	73.4	44.7
Hydrometer Reading 4 - Percent Finer	% PASSED	39.4	52.1	63.2	76.9	66.5	39.2
Hydrometer Reading 5 - Percent Finer	% PASSED	35.1	45.9	56.8	67.4	57.9	33.7
Hydrometer Reading 6 - Percent Finer	% PASSED	28	38.2	45.7	56.4	47.6	25.5
Hydrometer Reading 7 - Percent Finer	% PASSED	19.5	28.9	34.5	42.2	35.5	18.7
TOC							
TOC	mg/kg	28,100	23,300 J	22,800	23,300	23,100	24,100

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-26	LMR11-27	LMR11-27	LMR11-27	LMR11-27	LMR11-27
	Field Sample ID	LMR11-26-117	LMR11-27-006	LMR11-27-024	LMR11-27-048	LMR11-27-072	LMR11-27-096
	Sample Date	8/10/2011	8/4/2011	8/11/2011	8/11/2011	8/11/2011	8/11/2011
	Depth Interval (in bss)	96- 117	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0.2	0.7	0	0	0
Sand	%	47.5	67.5	17.6	25.8	28	42.9
Silt	%	33.4	14.5	27.7	29.8	21.5	29.6
Clay	%	19.1	17.8	54	44.4	50.5	27.5
Coarse Sand	%	0	1.2	1.1	0.2	0	0.1
Medium Sand	%	0.9	6.9	2.4	1.5	2.2	0.8
Fine Sand	%	46.6	59.4	14.1	24.1	25.8	42
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	99.8	99.3	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	98.6	98.2	99.8	100	99.9
Sieve Size #20 - Percent Finer	% PASSED	99.9	97	97.4	99.1	99.6	99.5
Sieve Size #40 - Percent Finer	% PASSED	99.1	91.7	95.8	98.3	97.8	99.1
Sieve Size #60 - Percent Finer	% PASSED	96.3	56.7	92.9	92.9	91.9	94
Sieve Size #80 - Percent Finer	% PASSED	89.9	35.4	84.8	84	79.3	82.6
Sieve Size #100 - Percent Finer	% PASSED	82.6	33.3	84.1	80.9	76.5	73.6
Sieve Size #200 - Percent Finer	% PASSED	52.5	32.3	81.7	74.2	72	57.1
Hydrometer Reading 1 - Percent Finer	% PASSED	35.4	26.5	75.4	64.9	71.2	42.1
Hydrometer Reading 2 - Percent Finer	% PASSED	31.1	24.6	70.8	60.8	66.4	39.5
Hydrometer Reading 3 - Percent Finer	% PASSED	25.6	22.2	64.6	55.3	61.6	35.5
Hydrometer Reading 4 - Percent Finer	% PASSED	22.3	19.7	58.6	48.5	56.8	32.9
Hydrometer Reading 5 - Percent Finer	% PASSED	19.1	17.8	54	44.4	50.5	27.5
Hydrometer Reading 6 - Percent Finer	% PASSED	13.6	15.8	41.8	34.8	40.8	22.1
Hydrometer Reading 7 - Percent Finer	% PASSED	9.4	11.6	31.2	25.3	29.6	15.4
TOC							
TOC	mg/kg	19,400	11,400	21,500	22,600	25,500	26,100

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-27	LMR11-28	LMR11-28	LMR11-29	LMR11-30	LMR11-31
	Field Sample ID	LMR11-27-115	LMR11-28-006	LMR11-28-034	LMR11-29-006	LMR11-30-006	LMR11-31-006
	Sample Date	8/11/2011	8/10/2011	8/10/2011	8/4/2011	8/4/2011	8/4/2011
	Depth Interval (in bss)	96- 115	0- 6	6- 34	0- 6	0- 6	0- 6
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0.2	3.2	0.2	0	1.1
Sand	%	37.6	16.3	89.1	40.3	27.3	11.8
Silt	%	36.4	45.2	4.8	29	27.4	39.7
Clay	%	26	38.3	2.8	30.5	45.3	47.4
Coarse Sand	%	0.2	0.9	6.3	0.3	0.3	0
Medium Sand	%	1.7	2.7	24.8	0.6	3.4	0.4
Fine Sand	%	35.7	12.7	58	39.4	23.6	11.4
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	99.8	96.8	99.8	100	98.9
Sieve Size #10 - Percent Finer	% PASSED	99.8	98.9	90.5	99.5	99.7	98.9
Sieve Size #20 - Percent Finer	% PASSED	99.1	97.7	78.2	99.4	98.9	98.8
Sieve Size #40 - Percent Finer	% PASSED	98.1	96.2	65.7	98.9	96.3	98.5
Sieve Size #60 - Percent Finer	% PASSED	97.3	93.9	36.4	96	84.6	97.2
Sieve Size #80 - Percent Finer	% PASSED	91.4	92.1	16	83.8	75.1	93.9
Sieve Size #100 - Percent Finer	% PASSED	86	90.9	10.8	73.9	74	92.2
Sieve Size #200 - Percent Finer	% PASSED	62.4	83.5	7.7	59.5	72.7	87.1
Hydrometer Reading 1 - Percent Finer	% PASSED	46.5	63.2	4	48.6	69.4	75.2
Hydrometer Reading 2 - Percent Finer	% PASSED	42	59.7	3.6	43.5	63.5	69
Hydrometer Reading 3 - Percent Finer	% PASSED	35.1	52.6	3.2	36.6	56.1	58.8
Hydrometer Reading 4 - Percent Finer	% PASSED	30.6	45.5	2.8	33.2	50.2	51.4
Hydrometer Reading 5 - Percent Finer	% PASSED	26	38.3	2.8	30.5	45.3	47.4
Hydrometer Reading 6 - Percent Finer	% PASSED	19	32.9	2.4	26.2	39.1	39.8
Hydrometer Reading 7 - Percent Finer	% PASSED	12.1	26	1.6	19.4	28.5	29.8
TOC							
TOC	mg/kg	28,400	20,000	4,270	19,700	22,200	27,900

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-32	LMR11-32	LMR11-32	LMR11-32	LMR11-32	LMR11-32
	Field Sample ID	LMR11-32-006	LMR11-32-024	LMR11-32-048	LMR11-32-072	LMR11-32-096	LMR11-32-116
	Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 72	72- 96	96- 116
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	7.2	8.2	0
Sand	%	23	20.5	24.6	62.7	64.1	53.6
Silt	%	37.9	36.9	34.7	16.5	12.3	22
Clay	%	39.1	42.6	40.7	13.6	15.4	24.4
Coarse Sand	%	0	0.3	1.2	5.3	2.6	0.4
Medium Sand	%	1.9	2.1	4.2	14.4	10.3	1.8
Fine Sand	%	21.1	18.1	19.2	43	51.2	51.4
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	96.3	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	92.8	91.8	100
Sieve Size #10 - Percent Finer	% PASSED	100	99.7	98.8	87.5	89.2	99.6
Sieve Size #20 - Percent Finer	% PASSED	99.8	99	97.3	82.8	86.5	99.2
Sieve Size #40 - Percent Finer	% PASSED	98.1	97.6	94.6	73.1	78.9	97.8
Sieve Size #60 - Percent Finer	% PASSED	94.5	94.5	90.5	53.6	61.6	84.4
Sieve Size #80 - Percent Finer	% PASSED	91.4	92.1	87	42.9	49.3	67.8
Sieve Size #100 - Percent Finer	% PASSED	88.9	90.2	84.6	38.4	41.9	59.1
Sieve Size #200 - Percent Finer	% PASSED	77	79.5	75.4	30.1	27.7	46.4
Hydrometer Reading 1 - Percent Finer	% PASSED	62.8	67.4	66.2	21.7	23.4	35.3
Hydrometer Reading 2 - Percent Finer	% PASSED	57.6	59.8	58.9	19.7	21.4	32.9
Hydrometer Reading 3 - Percent Finer	% PASSED	48.3	52.1	51.6	17.7	18.4	29.3
Hydrometer Reading 4 - Percent Finer	% PASSED	43	46.4	46.1	14.6	16.4	26.8
Hydrometer Reading 5 - Percent Finer	% PASSED	39.1	42.6	40.7	13.6	15.4	24.4
Hydrometer Reading 6 - Percent Finer	% PASSED	32.6	35	35.2	11.5	12.4	19.4
Hydrometer Reading 7 - Percent Finer	% PASSED	26	29.2	26.1	8.5	9.4	15.8
TOC							
TOC	mg/kg	29,600	33,500	22,900	21,400	66,200	17,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-33	LMR11-34	LMR11-35	LMR11-35	LMR11-35	LMR11-35
	Field Sample ID	LMR11-33-006	LMR11-34-006	LMR11-35-006	LMR11-35-024	LMR11-35-024FS	LMR11-35-048
	Sample Date	8/4/2011	8/4/2011	8/10/2011	8/10/2011	8/10/2011	8/10/2011
	Depth Interval (in bss)	0- 6	0- 6	0- 6	6- 24	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0.4	1.5	0	0	0	0
Sand	%	64.8	47.1	9.4	1.5	1	3.4
Silt	%	12.6	21	35	29.6	27.3	32.2
Clay	%	22.2	30.4	55.6	68.9	71.7	64.4
Coarse Sand	%	0.6	2.8	0	0	0	0
Medium Sand	%	1.5	7.9	0.1	0	0	0.1
Fine Sand	%	62.7	36.4	9.3	1.5	1	3.3
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.6	98.5	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	99	95.7	100	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	98.7	92.3	100	100	100	99.9
Sieve Size #40 - Percent Finer	% PASSED	97.5	87.8	99.9	100	100	99.9
Sieve Size #60 - Percent Finer	% PASSED	86.1	75.4	99.7	100	100	99.8
Sieve Size #80 - Percent Finer	% PASSED	54.9	57.3	98.4	100	99.9	99.6
Sieve Size #100 - Percent Finer	% PASSED	43.3	54	97.3	99.9	99.9	99.3
Sieve Size #200 - Percent Finer	% PASSED	34.8	51.4	90.6	98.5	99	96.6
Hydrometer Reading 1 - Percent Finer	% PASSED	32.9	45.8	81.2	96.6	98.6	93.1
Hydrometer Reading 2 - Percent Finer	% PASSED	31.8	41.7	76.1	92.9	94.8	88.3
Hydrometer Reading 3 - Percent Finer	% PASSED	28.6	36.6	68.4	85.5	87.1	78.8
Hydrometer Reading 4 - Percent Finer	% PASSED	26.4	34.5	63.3	80	81.3	70.8
Hydrometer Reading 5 - Percent Finer	% PASSED	22.2	30.4	55.6	68.9	71.7	64.4
Hydrometer Reading 6 - Percent Finer	% PASSED	18.9	25.4	45.3	57.8	58.3	53.2
Hydrometer Reading 7 - Percent Finer	% PASSED	14.6	19.1	35.1	43.1	44.8	40.4
TOC							
TOC	mg/kg	19,700	18,300	36,000	27,700	27,000	27,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-35	LMR11-35	LMR11-35	LMR11-36	LMR11-37	LMR11-37
	Field Sample ID	LMR11-35-072	LMR11-35-096	LMR11-35-116	LMR11-36-006	LMR11-37-006	LMR11-37-024
	Sample Date	8/10/2011	8/10/2011	8/10/2011	8/4/2011	8/10/2011	8/10/2011
	Depth Interval (in bss)	48- 72	72- 96	96- 116	0- 6	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0	0	0
Sand	%	1.1	0.4	36.9	73.9	3.7	2
Silt	%	28.2	25.3	31.4	8.2	32.3	26
Clay	%	70.7	74.3	31.7	17.9	64	72
Coarse Sand	%	0	0	0	0.4	0	0
Medium Sand	%	0.2	0.1	1.5	4.9	0.3	0.1
Fine Sand	%	0.9	0.3	35.4	68.6	3.4	1.9
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	100	99.6	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.9	99.9	99.7	98.8	99.8	100
Sieve Size #40 - Percent Finer	% PASSED	99.8	99.9	98.5	94.7	99.7	99.9
Sieve Size #60 - Percent Finer	% PASSED	99.8	99.9	93.2	69.5	99.5	99.7
Sieve Size #80 - Percent Finer	% PASSED	99.7	99.9	82.6	34.4	99.1	99.6
Sieve Size #100 - Percent Finer	% PASSED	99.7	99.9	77.5	28.1	98.8	99.6
Sieve Size #200 - Percent Finer	% PASSED	98.9	99.6	63.1	26.1	96.3	98
Hydrometer Reading 1 - Percent Finer	% PASSED	98.8	99.5	52.2	25.5	91	96.7
Hydrometer Reading 2 - Percent Finer	% PASSED	93.5	96.1	46.8	23.6	86.2	90.6
Hydrometer Reading 3 - Percent Finer	% PASSED	84.7	87.7	41.4	21.7	78.3	84.5
Hydrometer Reading 4 - Percent Finer	% PASSED	79.5	79.4	36	19.8	73.5	79.6
Hydrometer Reading 5 - Percent Finer	% PASSED	70.7	74.3	31.7	17.9	64	72
Hydrometer Reading 6 - Percent Finer	% PASSED	58.4	62.6	25.2	15	52.9	60
Hydrometer Reading 7 - Percent Finer	% PASSED	44.4	47.5	19.8	12.1	40.2	44.8
TOC							
TOC	mg/kg	22,100	25,400	26,700	20,100	22,400	22,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-37	LMR11-37	LMR11-37	LMR11-38	LMR11-38	LMR11-38
	Field Sample ID	LMR11-37-048	LMR11-37-048-DP	LMR11-37-072	LMR11-38-006	LMR11-38-024	LMR11-38-024-DP
	Sample Date	8/10/2011	8/10/2011	8/10/2011	8/9/2011	8/9/2011	8/9/2011
	Depth Interval (in bss)	24- 48	24- 48	48- 72	0- 6	6- 24	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	NA	1.7	0	0	NA
Sand	%	1.6	NA	15.9	13.5	25.4	NA
Silt	%	29.7	NA	24.1	35	23	NA
Clay	%	68.7	NA	58.3	51.5	51.6	NA
Coarse Sand	%	0	NA	0.7	0	0	NA
Medium Sand	%	0.1	NA	4	0.5	0.5	NA
Fine Sand	%	1.5	NA	11.2	13	24.9	NA
Sieve Size 3 inch - Percent Finer	% PASSED	100	NA	100	100	100	NA
Sieve Size 2 inch - Percent Finer	% PASSED	100	NA	100	100	100	NA
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	NA	100	100	100	NA
Sieve Size 1 inch - Percent Finer	% PASSED	100	NA	100	100	100	NA
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	NA	100	100	100	NA
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	NA	100	100	100	NA
Sieve Size #4 - Percent Finer	% PASSED	100	NA	98.3	100	100	NA
Sieve Size #10 - Percent Finer	% PASSED	100	NA	97.6	100	100	NA
Sieve Size #20 - Percent Finer	% PASSED	100	NA	96.6	99.7	99.7	NA
Sieve Size #40 - Percent Finer	% PASSED	99.9	NA	93.6	99.5	99.5	NA
Sieve Size #60 - Percent Finer	% PASSED	99.6	NA	88.6	99	99.2	NA
Sieve Size #80 - Percent Finer	% PASSED	99.4	NA	86.4	97.1	97.1	NA
Sieve Size #100 - Percent Finer	% PASSED	99.4	NA	85.4	94.9	90.1	NA
Sieve Size #200 - Percent Finer	% PASSED	98.4	NA	82.4	86.5	74.6	NA
Hydrometer Reading 1 - Percent Finer	% PASSED	96.4	NA	81.4	77.9	73.1	NA
Hydrometer Reading 2 - Percent Finer	% PASSED	92.5	NA	75.3	73.3	68.2	NA
Hydrometer Reading 3 - Percent Finer	% PASSED	84.7	NA	69.2	63.9	63.2	NA
Hydrometer Reading 4 - Percent Finer	% PASSED	76.5	NA	62.8	56.2	54.9	NA
Hydrometer Reading 5 - Percent Finer	% PASSED	68.7	NA	58.3	51.5	51.6	NA
Hydrometer Reading 6 - Percent Finer	% PASSED	57.3	NA	47.6	41.9	41.4	NA
Hydrometer Reading 7 - Percent Finer	% PASSED	45.6	NA	37.1	32.9	31.7	NA
TOC							
TOC	mg/kg	24,500	22,200	19,600	37,700	21,000	24,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-38	LMR11-39
	Field Sample ID	LMR11-38-024FS	LMR11-38-048	LMR11-38-048-DP	LMR11-38-072	LMR11-38-072-DP	LMR11-39-006
	Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/4/2011
	Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	48- 72	0- 6
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	NA	0	NA	0.7
Sand	%	43.6	8.9	NA	2.9	NA	78.6
Silt	%	21.5	35.4	NA	36.2	NA	5.2
Clay	%	34.9	55.7	NA	60.9	NA	15.5
Coarse Sand	%	0	0	NA	0	NA	1.3
Medium Sand	%	0.7	0.2	NA	0	NA	8.7
Fine Sand	%	42.9	8.7	NA	2.9	NA	68.6
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	NA	100	NA	99.3
Sieve Size #10 - Percent Finer	% PASSED	100	100	NA	100	NA	98
Sieve Size #20 - Percent Finer	% PASSED	99.6	99.9	NA	100	NA	96.2
Sieve Size #40 - Percent Finer	% PASSED	99.3	99.8	NA	100	NA	89.3
Sieve Size #60 - Percent Finer	% PASSED	98.6	99.8	NA	100	NA	58.3
Sieve Size #80 - Percent Finer	% PASSED	94.3	99.5	NA	99.7	NA	28.7
Sieve Size #100 - Percent Finer	% PASSED	83.6	98.4	NA	99.2	NA	22.8
Sieve Size #200 - Percent Finer	% PASSED	56.4	91.1	NA	97.1	NA	20.7
Hydrometer Reading 1 - Percent Finer	% PASSED	51.3	79.3	NA	86.8	NA	22.1
Hydrometer Reading 2 - Percent Finer	% PASSED	49	75.8	NA	82	NA	20.4
Hydrometer Reading 3 - Percent Finer	% PASSED	44.4	68.6	NA	74	NA	18.8
Hydrometer Reading 4 - Percent Finer	% PASSED	38.5	61.4	NA	69.2	NA	17.1
Hydrometer Reading 5 - Percent Finer	% PASSED	34.9	55.7	NA	60.9	NA	15.5
Hydrometer Reading 6 - Percent Finer	% PASSED	29.1	44.9	NA	49.7	NA	13
Hydrometer Reading 7 - Percent Finer	% PASSED	22.3	38	NA	40.3	NA	10.4
TOC							
TOC	mg/kg	18,500	25,700	35,500	26,900	27,000	13,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-40	LMR11-40	LMR11-40	LMR11-40	LMR11-41	LMR11-42
	Field Sample ID	LMR11-40-006	LMR11-40-024	LMR11-40-048	LMR11-40-084	LMR11-41-006	LMR11-42-006
	Sample Date	8/10/2011	8/10/2011	8/10/2011	8/10/2011	8/4/2011	8/9/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 84	0- 6	0- 6
Chemical Name	Unit						
Grain Size							
Gravel	%	2	0.2	0	0.5	3.6	28
Sand	%	66.1	59.9	32.6	66.6	51.1	22.3
Silt	%	16.5	24.8	44.7	22.5	20.5	28.3
Clay	%	15.4	15.1	22.7	10.4	24.8	21.4
Coarse Sand	%	1.7	0.5	0.1	2.1	1.5	1.3
Medium Sand	%	3.4	4.8	1.7	13.8	2.2	2.2
Fine Sand	%	61	54.6	30.8	50.7	47.4	18.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	75.4
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	97	74.8
Sieve Size #4 - Percent Finer	% PASSED	98	99.8	100	99.5	96.4	72
Sieve Size #10 - Percent Finer	% PASSED	96.3	99.3	99.9	97.4	94.9	70.7
Sieve Size #20 - Percent Finer	% PASSED	95.2	97.8	99.4	93.7	94.3	70
Sieve Size #40 - Percent Finer	% PASSED	92.9	94.5	98.2	83.6	92.7	68.5
Sieve Size #60 - Percent Finer	% PASSED	84.9	83.9	94.6	60.4	86.2	64.1
Sieve Size #80 - Percent Finer	% PASSED	61.1	72.5	87.8	48.3	67.9	59.3
Sieve Size #100 - Percent Finer	% PASSED	48.3	62	83.3	44.2	57.7	56.6
Sieve Size #200 - Percent Finer	% PASSED	31.9	39.9	67.4	32.9	45.3	49.7
Hydrometer Reading 1 - Percent Finer	% PASSED	24.8	28.8	46.4	21.6	36.4	34
Hydrometer Reading 2 - Percent Finer	% PASSED	22	24.6	40.5	17.5	33.5	30.8
Hydrometer Reading 3 - Percent Finer	% PASSED	20.1	20.3	31.6	15.5	30.6	26.9
Hydrometer Reading 4 - Percent Finer	% PASSED	16.3	17.2	25.7	12.4	26.8	23.7
Hydrometer Reading 5 - Percent Finer	% PASSED	15.4	15.1	22.7	10.4	24.8	21.4
Hydrometer Reading 6 - Percent Finer	% PASSED	12.4	11.8	18	9.4	20	16.7
Hydrometer Reading 7 - Percent Finer	% PASSED	9.6	9.8	13.8	6.3	15.1	13.5
TOC							
TOC	mg/kg	12,100	5,150	14,100	21,800	25,500	47,600

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-42	LMR11-42
	Field Sample ID	LMR11-42-024	LMR11-42-048	LMR11-42-048FS	LMR11-42-072	LMR11-42-096	LMR11-42-129
	Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
	Depth Interval (in bss)	6- 24	24- 48	24- 48	48- 72	72- 96	96- 129
Chemical Name	Unit						
Grain Size							
Gravel	%	3.8	1	13.7	32.5	0.3	1.2
Sand	%	48	25.9	27.5	46.7	65.2	63.8
Silt	%	24.1	32.7	23.5	8.1	19.7	18.5
Clay	%	24.1	40.4	35.3	12.7	14.8	16.5
Coarse Sand	%	2.1	1.3	1.5	4.6	1	5.1
Medium Sand	%	6.2	5.8	6.2	14.2	6.3	27.7
Fine Sand	%	39.7	18.8	19.8	27.9	57.9	31
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	81.2	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	81.2	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	98.8	100	94.5	72.5	100	100
Sieve Size #4 - Percent Finer	% PASSED	96.2	99	86.3	67.5	99.7	98.8
Sieve Size #10 - Percent Finer	% PASSED	94.1	97.7	84.8	62.9	98.7	93.7
Sieve Size #20 - Percent Finer	% PASSED	92.5	95.6	82.7	57	96.9	82.7
Sieve Size #40 - Percent Finer	% PASSED	87.9	91.9	78.6	48.7	92.4	66
Sieve Size #60 - Percent Finer	% PASSED	81.3	87.8	74	41.4	83.8	54.8
Sieve Size #80 - Percent Finer	% PASSED	65.5	80.9	66.8	30.6	63.5	45.6
Sieve Size #100 - Percent Finer	% PASSED	59.9	78.8	64.6	27.3	55.2	43
Sieve Size #200 - Percent Finer	% PASSED	48.2	73.1	58.8	20.8	34.5	35
Hydrometer Reading 1 - Percent Finer	% PASSED	39.1	65.7	58.8	20.4	24.6	28.3
Hydrometer Reading 2 - Percent Finer	% PASSED	35.6	60.9	54.7	18.4	22.8	24.8
Hydrometer Reading 3 - Percent Finer	% PASSED	31.2	51.3	46.6	16.5	19.3	24.1
Hydrometer Reading 4 - Percent Finer	% PASSED	27.7	46.5	41.5	15.1	17.5	19.3
Hydrometer Reading 5 - Percent Finer	% PASSED	24.1	40.4	35.3	12.7	14.8	16.5
Hydrometer Reading 6 - Percent Finer	% PASSED	19.1	32	27.2	9.8	12.1	13
Hydrometer Reading 7 - Percent Finer	% PASSED	14.8	22.4	19	7.9	9.4	10.2
TOC							
TOC	mg/kg	14,700	37,400	29,900	16,800	38,600	11,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-43	LMR11-44	LMR11-44	LMR11-44	LMR11-44	LMR11-44
	Field Sample ID	LMR11-43-030	LMR11-44-006	LMR11-44-024	LMR11-44-024FS	LMR11-44-048	LMR11-44-072
	Sample Date	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011	8/9/2011
	Depth Interval (in bss)	24- 30	0- 6	6- 24	6- 24	24- 48	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	37.7	1.3	0	0	0.4	6.3
Sand	%	52.5	14.2	4.9	5	31.8	66.1
Silt	%	7.1	31.7	34.9	35	16.1	10.2
Clay	%	2.7	52.8	60.2	60	51.7	17.4
Coarse Sand	%	7.4	1	0	0	1.1	5.1
Medium Sand	%	16.5	2.8	0.6	0.6	7.4	21.2
Fine Sand	%	28.6	10.4	4.3	4.4	23.3	39.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	76.6	100	100	100	100	96.9
Sieve Size #4 - Percent Finer	% PASSED	62.3	98.7	100	100	99.6	93.7
Sieve Size #10 - Percent Finer	% PASSED	54.9	97.7	100	100	98.5	88.6
Sieve Size #20 - Percent Finer	% PASSED	48.4	96.7	99.7	99.6	96.3	82.3
Sieve Size #40 - Percent Finer	% PASSED	38.4	94.9	99.4	99.4	91.1	67.4
Sieve Size #60 - Percent Finer	% PASSED	30	93	99.3	99.2	84.1	48.4
Sieve Size #80 - Percent Finer	% PASSED	19.9	88.3	98.5	98.4	74	34.5
Sieve Size #100 - Percent Finer	% PASSED	16.6	87.1	98.2	98.1	71.1	30.8
Sieve Size #200 - Percent Finer	% PASSED	9.8	84.5	95.1	95	67.8	27.6
Hydrometer Reading 1 - Percent Finer	% PASSED	4.4	76	87.1	86.2	67.8	25.5
Hydrometer Reading 2 - Percent Finer	% PASSED	4.4	72.4	81.4	82.9	65.1	23.7
Hydrometer Reading 3 - Percent Finer	% PASSED	3.8	65.3	72.9	73.1	61.1	21.5
Hydrometer Reading 4 - Percent Finer	% PASSED	3.2	58.1	67.3	66.5	57.1	19.2
Hydrometer Reading 5 - Percent Finer	% PASSED	2.7	52.8	60.2	60	51.7	17.4
Hydrometer Reading 6 - Percent Finer	% PASSED	2.1	42.1	48.9	48.5	42.3	13.8
Hydrometer Reading 7 - Percent Finer	% PASSED	2.1	33	37.6	38.6	33	10.2
TOC							
TOC	mg/kg	24,800	24,000	35,400	27,600	27,100	26,200

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-44	LMR11-45	LMR11-45	LMR11-45	LMR11-45	LMR11-45
	Field Sample ID	LMR11-44-096	LMR11-45-006	LMR11-45-024	LMR11-45-048	LMR11-45-048FS	LMR11-45-072
	Sample Date	8/9/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	72- 96	0- 6	6- 24	24- 48	24- 48	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	6.8	0	0	0
Sand	%	28.7	8.3	2	0.4	0.4	1
Silt	%	34.4	35.9	32.7	30.9	34.3	30.6
Clay	%	36.9	55.8	58.5	68.7	65.3	68.4
Coarse Sand	%	0.8	0	0.1	0	0	0
Medium Sand	%	3.4	0.9	0.2	0.1	0	0
Fine Sand	%	24.5	7.4	1.7	0.3	0.4	1
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	93.2	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	93.2	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.2	100	93.1	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	98.3	99.6	93	100	100	100
Sieve Size #40 - Percent Finer	% PASSED	95.8	99.1	92.9	99.9	100	100
Sieve Size #60 - Percent Finer	% PASSED	92.5	98.5	92.7	99.8	100	99.9
Sieve Size #80 - Percent Finer	% PASSED	82.3	97.5	92.6	99.8	100	99.9
Sieve Size #100 - Percent Finer	% PASSED	79	96.4	92.4	99.8	99.9	99.9
Sieve Size #200 - Percent Finer	% PASSED	71.3	91.7	91.2	99.6	99.6	99
Hydrometer Reading 1 - Percent Finer	% PASSED	56.4	81.7	79.9	92.2	84.6	91.7
Hydrometer Reading 2 - Percent Finer	% PASSED	51.5	78	76	88.2	82.1	89.9
Hydrometer Reading 3 - Percent Finer	% PASSED	48.3	68.8	68.2	80.4	74.9	82.8
Hydrometer Reading 4 - Percent Finer	% PASSED	41.8	61.4	62.4	74.6	70.1	73.8
Hydrometer Reading 5 - Percent Finer	% PASSED	36.9	55.8	58.5	68.7	65.3	68.4
Hydrometer Reading 6 - Percent Finer	% PASSED	28.7	46.3	48.5	58.6	55.7	57.7
Hydrometer Reading 7 - Percent Finer	% PASSED	22.2	35.2	36.9	45.3	41.3	45.1
TOC							
TOC	mg/kg	19,500	26,900	23,500	33,800	26,500	33,100

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-45	LMR11-46	LMR11-46	LMR11-46	LMR11-46	LMR11-46
	Field Sample ID	LMR11-45-096	LMR11-46-006	LMR11-46-024	LMR11-46-024FS	LMR11-46-048	LMR11-46-072
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	72- 96	0- 6	6- 24	6- 24	24- 48	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	0	1.5	0	0	0	0
Sand	%	1.8	16.6	11.7	14.1	40.5	91.8
Silt	%	28.7	31.4	36.5	34.2	32.5	5.3
Clay	%	69.5	50.5	51.8	51.7	27	2.8
Coarse Sand	%	0	0.7	0.3	0.5	0.1	0.4
Medium Sand	%	0.4	2	1.2	1.5	1.5	6.4
Fine Sand	%	1.4	13.9	10.2	12.1	38.9	85
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	98.5	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	97.8	99.7	99.5	99.9	99.6
Sieve Size #20 - Percent Finer	% PASSED	99.9	97.2	99.3	99	99.7	98.9
Sieve Size #40 - Percent Finer	% PASSED	99.6	95.8	98.5	98	98.4	93.2
Sieve Size #60 - Percent Finer	% PASSED	99.1	93	97	96.1	92.1	71
Sieve Size #80 - Percent Finer	% PASSED	98.9	88.1	94.2	92.4	83.6	47.9
Sieve Size #100 - Percent Finer	% PASSED	98.8	85.9	92.7	90.7	76.7	33.9
Sieve Size #200 - Percent Finer	% PASSED	98.2	81.9	88.3	85.9	59.5	8.2
Hydrometer Reading 1 - Percent Finer	% PASSED	91.8	77.1	79.1	78.3	43.6	4.8
Hydrometer Reading 2 - Percent Finer	% PASSED	89.8	72.2	72.7	72.2	39.9	4
Hydrometer Reading 3 - Percent Finer	% PASSED	83.7	63.9	64.6	63.9	35.3	3.6
Hydrometer Reading 4 - Percent Finer	% PASSED	77.6	58.9	59.8	56.5	31.6	3.3
Hydrometer Reading 5 - Percent Finer	% PASSED	69.5	50.5	51.8	51.7	27	2.9
Hydrometer Reading 6 - Percent Finer	% PASSED	59.3	42.4	42.1	41.7	21.4	2.5
Hydrometer Reading 7 - Percent Finer	% PASSED	47.1	30.8	32.5	30.7	16.8	2.1
TOC							
TOC	mg/kg	34,300	43,300	19,700	24,900	28,300	20,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-46	LMR11-47	LMR11-47	LMR11-47	LMR11-47	LMR11-47
	Field Sample ID	LMR11-46-093	LMR11-47-006	LMR11-47-024	LMR11-47-048	LMR11-47-072	LMR11-47-096
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	72- 93	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	Unit						
Grain Size							
Gravel	%	3.5	0.9	1.6	1.2	0	0
Sand	%	39.8	14.1	6.2	35.2	18.8	3.4
Silt	%	29.1	33.2	33.2	24	32.7	32.3
Clay	%	27.6	51.8	59	39.6	48.5	64.3
Coarse Sand	%	0.7	0	0.4	0.9	0	0
Medium Sand	%	1.7	0.9	0.4	12.3	2.5	0.5
Fine Sand	%	37.4	13.2	5.4	22	16.3	2.9
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	98.4	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	96.5	99.1	98.4	98.8	100	100
Sieve Size #10 - Percent Finer	% PASSED	95.8	99.1	98	97.9	100	100
Sieve Size #20 - Percent Finer	% PASSED	95.4	98.7	97.9	96.4	99.4	99.9
Sieve Size #40 - Percent Finer	% PASSED	94.1	98.2	97.6	85.6	97.5	99.5
Sieve Size #60 - Percent Finer	% PASSED	89.6	96.3	96.8	71	93.6	99.1
Sieve Size #80 - Percent Finer	% PASSED	82.2	93.1	95.7	68.5	89.4	98.9
Sieve Size #100 - Percent Finer	% PASSED	75.1	91.1	95	67.2	87.3	98.5
Sieve Size #200 - Percent Finer	% PASSED	56.7	85	92.2	63.6	81.2	96.6
Hydrometer Reading 1 - Percent Finer	% PASSED	47.4	77.9	85.6	60.6	75.7	94.2
Hydrometer Reading 2 - Percent Finer	% PASSED	42.5	70.4	80.6	54.6	68.9	88.9
Hydrometer Reading 3 - Percent Finer	% PASSED	36.3	63	70.7	48.6	62.1	80.1
Hydrometer Reading 4 - Percent Finer	% PASSED	31.3	58	64	44.6	53.6	73.1
Hydrometer Reading 5 - Percent Finer	% PASSED	27.6	51.8	59	39.6	48.5	64.3
Hydrometer Reading 6 - Percent Finer	% PASSED	22.6	41.8	49.1	32.6	38.3	53.7
Hydrometer Reading 7 - Percent Finer	% PASSED	16.4	33.1	37.5	24.6	29.9	41.4
TOC							
TOC	mg/kg	29,600	26,000	22,600	17,300	28,000	29,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-47	LMR11-47	LMR11-48	LMR11-48	LMR11-48	LMR11-48
	Field Sample ID	LMR11-47-120	LMR11-47-144	LMR11-48-006	LMR11-48-024	LMR11-48-024FS	LMR11-48-048
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	96- 120	120- 144	0- 6	6- 24	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0.7	0	0
Sand	%	25.8	7.5	2.8	5.6	7.6	4.8
Silt	%	31.8	48.7	40	36	38.1	33.5
Clay	%	42.4	43.8	57.2	57.7	54.3	61.7
Coarse Sand	%	0.2	0	0.1	0.1	0	0
Medium Sand	%	1.6	0.4	0.6	0.6	0.9	0.4
Fine Sand	%	24	7.1	2.1	4.9	6.7	4.4
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	99.3	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.8	100	99.9	99.2	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.4	99.9	99.5	98.9	99.7	99.8
Sieve Size #40 - Percent Finer	% PASSED	98.2	99.6	99.3	98.6	99.1	99.6
Sieve Size #60 - Percent Finer	% PASSED	95.8	99.2	99.2	98.2	98.6	99.6
Sieve Size #80 - Percent Finer	% PASSED	86.7	98.2	98.5	96.6	96	98.9
Sieve Size #100 - Percent Finer	% PASSED	78.9	97.2	98.1	96	94.9	98.3
Sieve Size #200 - Percent Finer	% PASSED	74.2	92.5	97.2	93.7	92.4	95.2
Hydrometer Reading 1 - Percent Finer	% PASSED	66	76.7	88.5	84.9	79.8	89.1
Hydrometer Reading 2 - Percent Finer	% PASSED	60.4	69.8	79.6	81.1	75.6	81.2
Hydrometer Reading 3 - Percent Finer	% PASSED	53.5	59.5	70.6	73.3	65	73.4
Hydrometer Reading 4 - Percent Finer	% PASSED	48	52.6	66.2	65.5	58.6	65.6
Hydrometer Reading 5 - Percent Finer	% PASSED	42.4	43.8	57.2	57.7	54.3	61.7
Hydrometer Reading 6 - Percent Finer	% PASSED	34.1	35.4	48.3	49.9	45.9	50
Hydrometer Reading 7 - Percent Finer	% PASSED	25.8	25.1	39.3	38.2	37.4	38.3
TOC							
TOC	mg/kg	31,000	37,800	30,000	39,400	26,600	26,400

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-48	LMR11-49	LMR11-49	LMR11-49	LMR11-49	LMR11-49
	Field Sample ID	LMR11-48-061	LMR11-49-006	LMR11-49-024	LMR11-49-048	LMR11-49-072	LMR11-49-096
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	48- 61	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0	0	0.4
Sand	%	4.8	8.4	5.1	6.3	30.7	70
Silt	%	30.8	31.4	31.9	39.3	42.7	20.1
Clay	%	64.4	60.2	63	54.4	26.6	9.5
Coarse Sand	%	0	0.6	0.6	0	0.1	1.6
Medium Sand	%	1.5	0.4	0.3	0.1	0.4	2.5
Fine Sand	%	3.3	7.4	4.2	6.2	30.2	65.9
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	100	100	99.6
Sieve Size #10 - Percent Finer	% PASSED	100	99.4	99.4	100	99.9	98
Sieve Size #20 - Percent Finer	% PASSED	99.4	99.4	99.4	100	99.8	97.7
Sieve Size #40 - Percent Finer	% PASSED	98.5	99	99.1	99.9	99.5	95.5
Sieve Size #60 - Percent Finer	% PASSED	98	97.6	97.9	99.6	97.6	85.7
Sieve Size #80 - Percent Finer	% PASSED	97.2	95.2	96.4	99.2	93.3	71.9
Sieve Size #100 - Percent Finer	% PASSED	96.9	93.8	95.9	98.9	88.7	58.1
Sieve Size #200 - Percent Finer	% PASSED	95.2	91.6	94.9	93.7	69.3	29.6
Hydrometer Reading 1 - Percent Finer	% PASSED	90.5	83.1	89.3	83.8	49.3	16.4
Hydrometer Reading 2 - Percent Finer	% PASSED	86.1	79.3	85.5	76.4	42.8	14.8
Hydrometer Reading 3 - Percent Finer	% PASSED	77.4	71.7	78	67.2	36.3	12.6
Hydrometer Reading 4 - Percent Finer	% PASSED	73.1	64.1	68.6	59.9	30.9	10.3
Hydrometer Reading 5 - Percent Finer	% PASSED	64.4	60.2	63	54.4	26.6	9.5
Hydrometer Reading 6 - Percent Finer	% PASSED	55.7	48.6	51.6	43.2	21.1	8
Hydrometer Reading 7 - Percent Finer	% PASSED	42.6	37.4	40.5	32.3	15.8	5.7
TOC							
TOC	mg/kg	30,300	23,800	21,000	26,500	29,600	19,600

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-49	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
	Field Sample ID	LMR11-49-115	LMR11-50-006	LMR11-50-006-DP	LMR11-50-024	LMR11-50-024-DP	LMR11-50-048
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	96- 115	0- 6	0- 6	6- 24	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	2.6	4.3	NA	0.4	NA	5.6
Sand	%	51.4	17.5	NA	22.4	NA	57.2
Silt	%	24	31	NA	27.6	NA	12.6
Clay	%	22	47.2	NA	49.6	NA	24.6
Coarse Sand	%	1.7	1.7	NA	0.8	NA	3.5
Medium Sand	%	3.2	3.5	NA	4	NA	10.9
Fine Sand	%	46.5	12.3	NA	17.6	NA	42.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	NA	100	NA	96.3
Sieve Size #4 - Percent Finer	% PASSED	97.4	95.7	NA	99.6	NA	94.4
Sieve Size #10 - Percent Finer	% PASSED	95.7	94	NA	98.8	NA	90.9
Sieve Size #20 - Percent Finer	% PASSED	95.2	92.5	NA	97.3	NA	87.1
Sieve Size #40 - Percent Finer	% PASSED	92.5	90.5	NA	94.8	NA	80
Sieve Size #60 - Percent Finer	% PASSED	81.8	87.6	NA	90.1	NA	65
Sieve Size #80 - Percent Finer	% PASSED	70.5	85.4	NA	86.5	NA	54.3
Sieve Size #100 - Percent Finer	% PASSED	62.7	84	NA	84.3	NA	48.6
Sieve Size #200 - Percent Finer	% PASSED	46	78.2	NA	77.2	NA	37.2
Hydrometer Reading 1 - Percent Finer	% PASSED	34.5	71.5	NA	72.8	NA	32.5
Hydrometer Reading 2 - Percent Finer	% PASSED	32.3	67.4	NA	67	NA	30.5
Hydrometer Reading 3 - Percent Finer	% PASSED	27.8	59.3	NA	59.8	NA	28.6
Hydrometer Reading 4 - Percent Finer	% PASSED	24.4	53.3	NA	54	NA	26.6
Hydrometer Reading 5 - Percent Finer	% PASSED	22	47.2	NA	49.6	NA	24.6
Hydrometer Reading 6 - Percent Finer	% PASSED	17.5	38.8	NA	42.4	NA	19.7
Hydrometer Reading 7 - Percent Finer	% PASSED	13.1	30.7	NA	33.6	NA	15.8
TOC							
TOC	mg/kg	26,900 J	34,800	37,400	33,700	28,700	25,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50	LMR11-50
	Field Sample ID	LMR11-50-048-DP	LMR11-50-072	LMR11-50-096	LMR11-50-120	LMR11-50-144	LMR11-50-175
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	24- 48	48- 72	72- 96	96- 120	120- 144	144- 175
Chemical Name	Unit						
Grain Size							
Gravel	%	NA	8.2	4.9	0.6	1.8	9
Sand	%	NA	57.4	35	16.4	30.4	17.4
Silt	%	NA	14.7	23.4	40.3	29.4	32.5
Clay	%	NA	19.7	36.7	42.7	38.4	41.1
Coarse Sand	%	NA	4.8	4.5	0.5	2.1	1.9
Medium Sand	%	NA	13.9	10.2	2.2	9.6	4.6
Fine Sand	%	NA	38.7	20.3	13.7	18.7	10.9
Sieve Size 3 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	NA	96.5	100	100	100	92.5
Sieve Size #4 - Percent Finer	% PASSED	NA	91.8	95.1	99.4	98.2	91
Sieve Size #10 - Percent Finer	% PASSED	NA	87	90.6	98.9	96.1	89.1
Sieve Size #20 - Percent Finer	% PASSED	NA	81.7	85.5	98.3	91.8	87.1
Sieve Size #40 - Percent Finer	% PASSED	NA	73.1	80.4	96.7	86.5	84.5
Sieve Size #60 - Percent Finer	% PASSED	NA	58.1	74	94.6	81	81.3
Sieve Size #80 - Percent Finer	% PASSED	NA	48.8	69.4	92.7	77.5	79.1
Sieve Size #100 - Percent Finer	% PASSED	NA	44.1	67	91.4	75.3	77.8
Sieve Size #200 - Percent Finer	% PASSED	NA	34.4	60.1	83	67.8	73.6
Hydrometer Reading 1 - Percent Finer	% PASSED	NA	28.3	55.5	65.8	59	61.1
Hydrometer Reading 2 - Percent Finer	% PASSED	NA	26.2	51.7	60.1	55.6	56.5
Hydrometer Reading 3 - Percent Finer	% PASSED	NA	23.3	44.2	54.3	48.7	50.3
Hydrometer Reading 4 - Percent Finer	% PASSED	NA	21.1	40.4	47.1	44.1	45.7
Hydrometer Reading 5 - Percent Finer	% PASSED	NA	19.7	36.7	42.7	38.4	41.1
Hydrometer Reading 6 - Percent Finer	% PASSED	NA	16	30.4	34.1	29.3	31.8
Hydrometer Reading 7 - Percent Finer	% PASSED	NA	12.4	22.8	24	21.3	22.5
TOC							
TOC	mg/kg	17,000	36,200	48,500	32,200	54,500	39,900

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-51	LMR11-51	LMR11-51	LMR11-51	LMR11-52	LMR11-52
	Field Sample ID	LMR11-51-006	LMR11-51-024	LMR11-51-048	LMR11-51-075	LMR11-52-006	LMR11-52-024
	Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 48	48- 75	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	2.9	0	0
Sand	%	31.4	9.8	10.1	1.3	15.5	9.7
Silt	%	28	37.1	34.6	37.6	28.7	35
Clay	%	40.6	53.1	55.3	58.2	55.8	55.3
Coarse Sand	%	0.9	0.6	0	0.1	0	0
Medium Sand	%	1.1	0.6	0.3	0	1.1	0.2
Fine Sand	%	29.4	8.6	9.8	1.2	14.4	9.5
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	97.1	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.1	99.4	100	97	100	100
Sieve Size #20 - Percent Finer	% PASSED	98.8	99.2	99.9	97	99.3	100
Sieve Size #40 - Percent Finer	% PASSED	98	98.8	99.7	97	98.9	99.8
Sieve Size #60 - Percent Finer	% PASSED	93.9	97.9	99.1	97	97.5	99.1
Sieve Size #80 - Percent Finer	% PASSED	80	95.6	97.3	96.9	94.6	97.8
Sieve Size #100 - Percent Finer	% PASSED	73.8	94	95.7	96.8	91.8	96.4
Sieve Size #200 - Percent Finer	% PASSED	68.6	90.2	89.9	95.8	84.5	90.3
Hydrometer Reading 1 - Percent Finer	% PASSED	63.8	77.9	81.4	80.9	81.1	83.6
Hydrometer Reading 2 - Percent Finer	% PASSED	60.2	74.1	76.2	76.3	76	76.9
Hydrometer Reading 3 - Percent Finer	% PASSED	53.1	66.4	69.2	71.8	67.6	68.6
Hydrometer Reading 4 - Percent Finer	% PASSED	46	60.7	60.5	65	60.9	60.3
Hydrometer Reading 5 - Percent Finer	% PASSED	40.6	53.1	55.3	58.2	55.8	55.3
Hydrometer Reading 6 - Percent Finer	% PASSED	33.3	45.3	46.5	44.5	45.7	45
Hydrometer Reading 7 - Percent Finer	% PASSED	26	33.6	35.9	35.3	35.6	33.3
TOC							
TOC	mg/kg	21,400	19,400	21,100	18,200	18,300	27,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-52	LMR11-52	LMR11-52	LMR11-53	LMR11-53	LMR11-53
	Field Sample ID	LMR11-52-048	LMR11-52-048FS	LMR11-52-072	LMR11-53-006	LMR11-53-024	LMR11-53-048
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/7/2011	8/7/2011	8/7/2011
	Depth Interval (in bss)	24- 48	24- 48	48- 72	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0	17	0
Sand	%	9.5	7.2	8.8	12.7	37.2	27
Silt	%	38.5	34.2	49	29.5	13.5	18.2
Clay	%	52	58.6	42.2	57.8	32.3	54.8
Coarse Sand	%	0	0	0	0	7.2	2.2
Medium Sand	%	0.3	0.2	0.1	1.6	15.9	9.5
Fine Sand	%	9.2	7	8.7	11.1	14.1	15.3
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	95.3	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	100	83	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	100	100	75.8	97.8
Sieve Size #20 - Percent Finer	% PASSED	99.9	100	100	99.5	67.8	94.8
Sieve Size #40 - Percent Finer	% PASSED	99.7	99.8	99.9	98.4	59.9	88.3
Sieve Size #60 - Percent Finer	% PASSED	98.4	98.8	99.6	96.6	54.4	80.1
Sieve Size #80 - Percent Finer	% PASSED	96.6	97.6	99.1	93.8	51.5	76.4
Sieve Size #100 - Percent Finer	% PASSED	95.2	96.6	98.6	92	49.8	75
Sieve Size #200 - Percent Finer	% PASSED	90.5	92.8	91.2	87.3	45.8	73
Hydrometer Reading 1 - Percent Finer	% PASSED	78	86.8	75	81.9	43.9	72.3
Hydrometer Reading 2 - Percent Finer	% PASSED	73.6	81.2	64	75.5	41.8	70.6
Hydrometer Reading 3 - Percent Finer	% PASSED	63.6	71.8	53.1	69.1	37.5	63.6
Hydrometer Reading 4 - Percent Finer	% PASSED	56.4	62.4	45.8	62.6	34.3	60
Hydrometer Reading 5 - Percent Finer	% PASSED	52	58.6	42.2	57.8	32.3	54.8
Hydrometer Reading 6 - Percent Finer	% PASSED	42	47	32.8	49.8	26.8	45.7
Hydrometer Reading 7 - Percent Finer	% PASSED	33.3	36	24	36.9	21.4	35.1
TOC							
TOC	mg/kg	22,900	22,500	20,800	34,900	28,200	23,400

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-53	LMR11-54	LMR11-54	LMR11-54	LMR11-54	LMR11-54
	Field Sample ID	LMR11-53-073	LMR11-54-006	LMR11-54-006-DP	LMR11-54-024	LMR11-54-024-DP	LMR11-54-048
	Sample Date	8/7/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	48- 73	0- 6	0- 6	6- 24	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0.5	6.4	NA	6.6	NA	2.2
Sand	%	66.1	50.5	NA	49.7	NA	81.8
Silt	%	16	14.6	NA	14.2	NA	8.3
Clay	%	17.4	28.5	NA	29.5	NA	7.7
Coarse Sand	%	3.9	2	NA	3	NA	3.7
Medium Sand	%	21	4.3	NA	7.5	NA	13.6
Fine Sand	%	41.2	44.2	NA	39.2	NA	64.5
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	NA	100	NA	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	97.3	NA	96.4	NA	100
Sieve Size #4 - Percent Finer	% PASSED	99.5	93.6	NA	93.4	NA	97.8
Sieve Size #10 - Percent Finer	% PASSED	95.6	91.6	NA	90.4	NA	94.1
Sieve Size #20 - Percent Finer	% PASSED	88.2	90.2	NA	87.6	NA	88.9
Sieve Size #40 - Percent Finer	% PASSED	74.6	87.3	NA	82.9	NA	80.5
Sieve Size #60 - Percent Finer	% PASSED	56.2	78.3	NA	72.8	NA	66.5
Sieve Size #80 - Percent Finer	% PASSED	47.3	60.5	NA	58.2	NA	49.5
Sieve Size #100 - Percent Finer	% PASSED	42.7	51.2	NA	51.4	NA	36.2
Sieve Size #200 - Percent Finer	% PASSED	33.4	43.1	NA	43.7	NA	16
Hydrometer Reading 1 - Percent Finer	% PASSED	25.6	40.3	NA	41.4	NA	11.4
Hydrometer Reading 2 - Percent Finer	% PASSED	23.9	38.3	NA	39.2	NA	11.4
Hydrometer Reading 3 - Percent Finer	% PASSED	20.7	34.4	NA	36	NA	10.2
Hydrometer Reading 4 - Percent Finer	% PASSED	19	31.5	NA	32.7	NA	9
Hydrometer Reading 5 - Percent Finer	% PASSED	17.4	28.5	NA	29.5	NA	7.7
Hydrometer Reading 6 - Percent Finer	% PASSED	14	24.5	NA	24.1	NA	6.2
Hydrometer Reading 7 - Percent Finer	% PASSED	10.7	18.7	NA	18.6	NA	5
TOC							
TOC	mg/kg	19,800	16,600	22,400	17,500 J	33,400 J	18,100

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-54	LMR11-54	LMR11-54	LMR11-55	LMR11-55	LMR11-55
	Field Sample ID	LMR11-54-048-DP	LMR11-54-072	LMR11-54-086	LMR11-55-006	LMR11-55-006-DP	LMR11-55-030
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/7/2011	8/7/2011	8/7/2011
	Depth Interval (in bss)	24- 48	48- 72	72- 86	0- 6	0- 6	6- 30
Chemical Name	Unit						
Grain Size							
Gravel	%	NA	9.5	0	7.8	NA	16.4
Sand	%	NA	25.2	22.5	34.1	NA	37.6
Silt	%	NA	24.8	31.5	17.8	NA	25.7
Clay	%	NA	40.5	46	40.3	NA	20.3
Coarse Sand	%	NA	1	0	2.6	NA	5.6
Medium Sand	%	NA	2.6	0.5	4.5	NA	10.1
Fine Sand	%	NA	21.6	22	27	NA	21.9
Sieve Size 3 inch - Percent Finer	% PASSED	NA	100	100	100	NA	100
Sieve Size 2 inch - Percent Finer	% PASSED	NA	100	100	100	NA	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	NA	100	100	100	NA	100
Sieve Size 1 inch - Percent Finer	% PASSED	NA	100	100	100	NA	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	NA	100	100	100	NA	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	NA	94	100	96.9	NA	96.3
Sieve Size #4 - Percent Finer	% PASSED	NA	90.5	100	92.2	NA	83.6
Sieve Size #10 - Percent Finer	% PASSED	NA	89.5	100	89.6	NA	78
Sieve Size #20 - Percent Finer	% PASSED	NA	88.6	99.9	87.6	NA	73.2
Sieve Size #40 - Percent Finer	% PASSED	NA	86.9	99.5	85.1	NA	67.9
Sieve Size #60 - Percent Finer	% PASSED	NA	83.2	97.9	79.8	NA	60.9
Sieve Size #80 - Percent Finer	% PASSED	NA	79.8	91.3	70	NA	54.3
Sieve Size #100 - Percent Finer	% PASSED	NA	77.1	85.1	64.3	NA	51.1
Sieve Size #200 - Percent Finer	% PASSED	NA	65.3	77.5	58.1	NA	46
Hydrometer Reading 1 - Percent Finer	% PASSED	NA	55.7	69.7	56.6	NA	28
Hydrometer Reading 2 - Percent Finer	% PASSED	NA	51.2	64.7	53.9	NA	26.3
Hydrometer Reading 3 - Percent Finer	% PASSED	NA	48.2	59.6	48.4	NA	24.5
Hydrometer Reading 4 - Percent Finer	% PASSED	NA	43.7	52.8	43	NA	22.8
Hydrometer Reading 5 - Percent Finer	% PASSED	NA	40.5	46	40.3	NA	20.3
Hydrometer Reading 6 - Percent Finer	% PASSED	NA	34.5	39	33.5	NA	16
Hydrometer Reading 7 - Percent Finer	% PASSED	NA	25.5	28.8	25.3	NA	12.5
TOC							
TOC	mg/kg	20,800	30,700	28,600	26,700	26,200	20,600

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-55	LMR11-56	LMR11-56	LMR11-56	LMR11-57	LMR11-57
	Field Sample ID	LMR11-55-030-DP	LMR11-56-006	LMR11-56-024	LMR11-56-036	LMR11-57-006	LMR11-57-024
	Sample Date	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	6- 30	0- 6	6- 24	24- 36	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	NA	1.9	3.3	8.3	0.7	0
Sand	%	NA	20.6	25.5	28.5	42.1	94.5
Silt	%	NA	30.4	20.6	28.8	19.4	2.2
Clay	%	NA	47.1	50.6	34.4	37.8	3.2
Coarse Sand	%	NA	1.8	1.8	3.1	0.2	0.1
Medium Sand	%	NA	3.7	3.1	6.4	2.4	2.1
Fine Sand	%	NA	15.1	20.6	19	39.5	92.3
Sieve Size 3 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	NA	99	97.8	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	NA	98.1	96.7	91.7	99.3	100
Sieve Size #10 - Percent Finer	% PASSED	NA	96.3	94.9	88.6	99.1	99.9
Sieve Size #20 - Percent Finer	% PASSED	NA	94.9	93.6	85.5	98.6	99.7
Sieve Size #40 - Percent Finer	% PASSED	NA	92.6	91.8	82.2	96.7	97.8
Sieve Size #60 - Percent Finer	% PASSED	NA	89.1	88	77.4	84.9	51.5
Sieve Size #80 - Percent Finer	% PASSED	NA	86.4	83.3	73.8	66.3	9.1
Sieve Size #100 - Percent Finer	% PASSED	NA	84.3	79.6	71.4	63.2	6.9
Sieve Size #200 - Percent Finer	% PASSED	NA	77.5	71.2	63.2	57.2	5.5
Hydrometer Reading 1 - Percent Finer	% PASSED	NA	62.5	67.2	53.9	55.3	5
Hydrometer Reading 2 - Percent Finer	% PASSED	NA	59.9	64.2	50	52	4.5
Hydrometer Reading 3 - Percent Finer	% PASSED	NA	54.8	59.6	43.5	46.5	3.7
Hydrometer Reading 4 - Percent Finer	% PASSED	NA	49.7	55.1	39.6	42.2	3.7
Hydrometer Reading 5 - Percent Finer	% PASSED	NA	47.1	50.6	34.4	37.8	3.2
Hydrometer Reading 6 - Percent Finer	% PASSED	NA	38.1	43.1	26.7	31.2	2.8
Hydrometer Reading 7 - Percent Finer	% PASSED	NA	29.1	32.5	20.2	22.5	2
TOC							
TOC	mg/kg	23,200	21,700	19,700	23,200	29,200	6,000

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-57	LMR11-57	LMR11-58	LMR11-59	LMR11-59	LMR11-59
	Field Sample ID	LMR11-57-048	LMR11-57-062	LMR11-58-010	LMR11-59-006	LMR11-59-024	LMR11-59-048
	Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	24- 48	48- 62	0- 10	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0	0	0
Sand	%	65.6	89.1	18.2	24.1	7.2	8.4
Silt	%	13.9	6.2	29.4	31.1	31.6	35.3
Clay	%	20.5	4.7	52.4	44.8	61.2	56.3
Coarse Sand	%	0	0	2	0	0	0
Medium Sand	%	1.4	0.6	4.6	0.6	0	0.4
Fine Sand	%	64.2	88.5	11.6	23.5	7.2	8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	98	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.7	99.8	95.8	99.6	100	99.9
Sieve Size #40 - Percent Finer	% PASSED	98.6	99.4	93.4	99.4	100	99.6
Sieve Size #60 - Percent Finer	% PASSED	67	81.7	90.5	98.7	99.9	99.2
Sieve Size #80 - Percent Finer	% PASSED	45	49.4	88.3	96.5	99.4	98.1
Sieve Size #100 - Percent Finer	% PASSED	40.2	31.5	86.9	92.7	98.5	97.3
Sieve Size #200 - Percent Finer	% PASSED	34.4	10.9	81.8	75.9	92.8	91.6
Hydrometer Reading 1 - Percent Finer	% PASSED	33.9	10.3	73.1	69.5	88.2	82.5
Hydrometer Reading 2 - Percent Finer	% PASSED	29.1	8.5	69.4	63	82.3	77.1
Hydrometer Reading 3 - Percent Finer	% PASSED	26.2	7.2	63.8	57.8	74.9	68.9
Hydrometer Reading 4 - Percent Finer	% PASSED	22.4	6	58	51.3	68.7	63.2
Hydrometer Reading 5 - Percent Finer	% PASSED	20.5	4.7	52.4	44.8	61.2	56.3
Hydrometer Reading 6 - Percent Finer	% PASSED	16.3	3.5	41	36.9	50.8	46.7
Hydrometer Reading 7 - Percent Finer	% PASSED	13.4	2.2	28.1	27.8	38.9	35.8
TOC							
TOC	mg/kg	23,300 J	25,900	26,300	27,900 J	22,000	31,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-59	LMR11-59	LMR11-59	LMR11-60	LMR11-60	LMR11-60
	Field Sample ID	LMR11-59-072	LMR11-59-096	LMR11-59-116	LMR11-60-006	LMR11-60-024	LMR11-60-048
	Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	48- 72	72- 96	96- 116	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0.9	6.1	0.9	0	0
Sand	%	16	41.3	75.2	10.9	5.1	2.7
Silt	%	27.2	21.1	4.6	40.7	37.4	37.4
Clay	%	56.8	36.7	14.1	47.5	57.5	59.9
Coarse Sand	%	0.4	0.2	0.4	0.9	0	0
Medium Sand	%	2.2	9	20.5	0.2	0	0.3
Fine Sand	%	13.4	32.1	54.3	9.8	5.1	2.4
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	99.1	95.1	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	99.1	93.9	99.1	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.6	98.9	93.5	98.2	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.2	98.2	92.5	98.1	100	99.8
Sieve Size #40 - Percent Finer	% PASSED	97.4	89.9	73	98	100	99.7
Sieve Size #60 - Percent Finer	% PASSED	95.1	81	40	97.9	99.9	99.6
Sieve Size #80 - Percent Finer	% PASSED	92.9	69	26.4	97	99.8	99.5
Sieve Size #100 - Percent Finer	% PASSED	91	65.1	22.4	96.5	99.5	99.3
Sieve Size #200 - Percent Finer	% PASSED	84	57.8	18.7	88.2	94.9	97.3
Hydrometer Reading 1 - Percent Finer	% PASSED	79.1	53.2	21.3	69.6	83.8	85.3
Hydrometer Reading 2 - Percent Finer	% PASSED	75	49.3	20	65.4	78.2	79.6
Hydrometer Reading 3 - Percent Finer	% PASSED	67.8	45.4	18.1	57.2	70.7	71.2
Hydrometer Reading 4 - Percent Finer	% PASSED	62.3	40.6	16.1	53.1	63.2	65.5
Hydrometer Reading 5 - Percent Finer	% PASSED	56.8	36.7	14.1	47.5	57.5	59.9
Hydrometer Reading 6 - Percent Finer	% PASSED	45.8	30.7	12.1	39.2	48	50
Hydrometer Reading 7 - Percent Finer	% PASSED	34.7	23	8.2	29.6	34.9	38.6
TOC							
TOC	mg/kg	20,600	22,100	18,600	18,400	28,100	31,400

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-60	LMR11-60	LMR11-60	LMR11-61	LMR11-61	LMR11-62
	Field Sample ID	LMR11-60-048FS	LMR11-60-072	LMR11-60-092	LMR11-61-006	LMR11-61-030	LMR11-62-006
	Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	24- 48	48- 72	72- 92	0- 6	6- 30	0- 6
Chemical Name	Unit						
Grain Size							
Gravel	%	0	1.3	0	26.3	5	0
Sand	%	6	36	13.9	46	25	11.7
Silt	%	37.1	28.7	45	13.4	25.8	35.9
Clay	%	56.9	34	41.1	14.3	44.2	52.4
Coarse Sand	%	0	1.1	0	9.5	4.3	0
Medium Sand	%	0.2	6.6	0.9	16	6.6	0.2
Fine Sand	%	5.8	28.3	13	20.5	14.1	11.5
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	93.2	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	84	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	98.7	100	73.7	95	100
Sieve Size #10 - Percent Finer	% PASSED	100	97.6	100	64.2	90.7	100
Sieve Size #20 - Percent Finer	% PASSED	99.9	96.2	99.9	56.5	87.5	99.9
Sieve Size #40 - Percent Finer	% PASSED	99.8	91	99.1	48.2	84.1	99.8
Sieve Size #60 - Percent Finer	% PASSED	99.8	82.7	96.2	38.6	79.7	99.8
Sieve Size #80 - Percent Finer	% PASSED	99.5	72.5	94.5	33.1	76.7	99.3
Sieve Size #100 - Percent Finer	% PASSED	99.2	70.5	93.4	31.1	75.1	98.9
Sieve Size #200 - Percent Finer	% PASSED	94	62.7	86.1	27.7	70	88.3
Hydrometer Reading 1 - Percent Finer	% PASSED	79.5	52	63.3	20.5	67.1	74.2
Hydrometer Reading 2 - Percent Finer	% PASSED	76.7	48.4	58.4	19.3	60.6	71.1
Hydrometer Reading 3 - Percent Finer	% PASSED	68.2	43.6	51	18.1	55.7	63.3
Hydrometer Reading 4 - Percent Finer	% PASSED	61.2	38.8	44.8	16.1	52.2	57.1
Hydrometer Reading 5 - Percent Finer	% PASSED	56.9	34	41.1	14.3	44.2	52.4
Hydrometer Reading 6 - Percent Finer	% PASSED	45.6	28	32.3	11.7	37.4	42.9
Hydrometer Reading 7 - Percent Finer	% PASSED	35.8	20.8	23.8	8.7	27.7	32
TOC							
TOC	mg/kg	23,100	19,500	24,900	27,400	24,500	27,100

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-62	LMR11-62	LMR11-62	LMR11-62	LMR11-62	LMR11-62
	Field Sample ID	LMR11-62-024	LMR11-62-024DP	LMR11-62-048	LMR11-62-072	LMR11-62-096	LMR11-62-108
	Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	6- 24	6- 24	24- 48	48- 72	72- 96	96- 108
Chemical Name	Unit						
Grain Size							
Gravel	%	0	NA	0.1	0	0	0.2
Sand	%	11.9	NA	60	90.2	53.2	71.3
Silt	%	27.1	NA	19.6	5.7	29.5	13.4
Clay	%	61	NA	20.3	4.1	17.3	15.1
Coarse Sand	%	0.1	NA	0.2	0	0	0.2
Medium Sand	%	0.7	NA	9.7	2.5	2.4	11.8
Fine Sand	%	11.1	NA	50.1	87.7	50.8	59.3
Sieve Size 3 inch - Percent Finer	% PASSED	100	NA	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	NA	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	NA	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	NA	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	NA	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	NA	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	NA	99.9	100	100	99.8
Sieve Size #10 - Percent Finer	% PASSED	99.9	NA	99.7	100	100	99.6
Sieve Size #20 - Percent Finer	% PASSED	99.8	NA	98.5	99.9	99.7	98.8
Sieve Size #40 - Percent Finer	% PASSED	99.2	NA	90	97.5	97.6	87.8
Sieve Size #60 - Percent Finer	% PASSED	98.2	NA	71.3	61.4	80.3	43.2
Sieve Size #80 - Percent Finer	% PASSED	95.7	NA	50.2	20.5	71	33.5
Sieve Size #100 - Percent Finer	% PASSED	94.6	NA	46.4	14.9	65.2	31.6
Sieve Size #200 - Percent Finer	% PASSED	88.1	NA	39.9	9.8	46.8	28.5
Hydrometer Reading 1 - Percent Finer	% PASSED	82.2	NA	31.7	8.3	35.2	25.8
Hydrometer Reading 2 - Percent Finer	% PASSED	78.3	NA	29.6	6.8	31.1	23.3
Hydrometer Reading 3 - Percent Finer	% PASSED	72.5	NA	24.6	6	25.6	20.9
Hydrometer Reading 4 - Percent Finer	% PASSED	66.8	NA	22.4	4.9	21.4	18.5
Hydrometer Reading 5 - Percent Finer	% PASSED	61	NA	20.3	4.1	17.3	15.1
Hydrometer Reading 6 - Percent Finer	% PASSED	53.1	NA	15.3	2.9	13.2	11.1
Hydrometer Reading 7 - Percent Finer	% PASSED	39.6	NA	11.8	2.2	9.1	7.8
TOC							
TOC	mg/kg	19,700	22,400	21,900	6,430	26,900	14,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-63	LMR11-63	LMR11-63	LMR11-63	LMR11-63	LMR11-63
	Field Sample ID	LMR11-63-006	LMR11-63-024	LMR11-63-048	LMR11-63-048FS	LMR11-63-072	LMR11-63-096
	Sample Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 48	24- 48	48- 72	72- 96
Chemical Name	Unit						
Grain Size							
Gravel	%	0	11.8	0.4	3.3	0	0
Sand	%	11.2	27.3	26.5	23.9	8.6	15.4
Silt	%	35.4	20.4	28.6	27.7	31.2	35.1
Clay	%	53.4	40.5	44.5	45.1	60.2	49.5
Coarse Sand	%	0.1	1.3	0.5	1	0	0
Medium Sand	%	0.4	2.8	2.7	2.6	0.8	0.6
Fine Sand	%	10.7	23.2	23.3	20.3	7.8	14.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	90.5	100	97.2	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	88.2	99.6	96.7	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.9	86.9	99.1	95.7	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.7	85.8	98.4	95	99.6	99.8
Sieve Size #40 - Percent Finer	% PASSED	99.5	84.1	96.4	93.1	99.2	99.4
Sieve Size #60 - Percent Finer	% PASSED	99.1	79.8	87.3	85.1	96.7	95.6
Sieve Size #80 - Percent Finer	% PASSED	98.4	76.8	82.5	81.2	95.6	90.5
Sieve Size #100 - Percent Finer	% PASSED	97.5	74.5	80.2	79.3	94.9	89.1
Sieve Size #200 - Percent Finer	% PASSED	88.8	60.9	73.1	72.8	91.4	84.6
Hydrometer Reading 1 - Percent Finer	% PASSED	77.8	58	66.1	67.5	85.9	75.9
Hydrometer Reading 2 - Percent Finer	% PASSED	73.5	53.9	61	62.2	79	70.1
Hydrometer Reading 3 - Percent Finer	% PASSED	64.9	47.2	53.4	55.6	72.2	61.4
Hydrometer Reading 4 - Percent Finer	% PASSED	62	44.5	48.3	51.6	65.3	53.9
Hydrometer Reading 5 - Percent Finer	% PASSED	53.4	40.5	44.5	45.1	60.2	49.5
Hydrometer Reading 6 - Percent Finer	% PASSED	46	32.5	35.7	35.8	49.9	39.4
Hydrometer Reading 7 - Percent Finer	% PASSED	33.2	25.7	25.5	26.6	36.2	29.2
TOC							
TOC	mg/kg	26,800	40,800	31,800	36,400	46,700 J	36,800

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-63	LMR11-64	LMR11-64	LMR11-64	LMR11-64	LMR11-64
	Field Sample ID	LMR11-63-115	LMR11-88-006	LMR11-88-024	LMR11-88-048	LMR11-88-072	LMR11-88-088
	Sample Date	8/8/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
	Depth Interval (in bss)	96- 115	0- 6	6- 24	24- 48	48- 72	72- 88
Chemical Name	Unit						
Grain Size							
Gravel	%	0	12.4	0	13	0.7	7.3
Sand	%	68.1	33.6	12.1	35.4	14	46.1
Silt	%	19.2	22.2	39.4	14.7	32.8	19.2
Clay	%	12.7	31.8	48.5	36.9	52.5	27.4
Coarse Sand	%	0.3	4.5	2	5	0.1	5.3
Medium Sand	%	1	12.7	3.4	11.8	3.1	15.4
Fine Sand	%	66.8	16.4	6.7	18.6	10.8	25.4
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	95.9	100	94	100	98.9
Sieve Size #4 - Percent Finer	% PASSED	100	87.6	100	87	99.3	92.7
Sieve Size #10 - Percent Finer	% PASSED	99.7	83.1	98	82	99.2	87.4
Sieve Size #20 - Percent Finer	% PASSED	99.5	77.5	96.3	78	98.1	81.9
Sieve Size #40 - Percent Finer	% PASSED	98.7	70.4	94.6	70.2	96.1	72
Sieve Size #60 - Percent Finer	% PASSED	92.4	62.4	92.4	58.5	92.5	56.9
Sieve Size #80 - Percent Finer	% PASSED	52.8	59	91.3	55.4	91	52.5
Sieve Size #100 - Percent Finer	% PASSED	46.1	57.5	90.7	54.2	90	50.5
Sieve Size #200 - Percent Finer	% PASSED	31.9	54	87.9	51.6	85.3	46.6
Hydrometer Reading 1 - Percent Finer	% PASSED	22	47.9	74.1	50.2	81.1	37.5
Hydrometer Reading 2 - Percent Finer	% PASSED	20.7	44.2	70.4	47.5	73.4	36.3
Hydrometer Reading 3 - Percent Finer	% PASSED	18.1	39.2	63.1	43.5	65.8	33.8
Hydrometer Reading 4 - Percent Finer	% PASSED	15.4	36.7	55.8	40.9	60.1	31.3
Hydrometer Reading 5 - Percent Finer	% PASSED	12.7	31.8	48.5	36.9	52.5	27.4
Hydrometer Reading 6 - Percent Finer	% PASSED	10.1	25.5	39.4	30.2	42.9	22.5
Hydrometer Reading 7 - Percent Finer	% PASSED	7.4	19.3	30.3	22.2	33.4	16.3
TOC							
TOC	mg/kg	26,700	24,100	25,400	25,200	30,600	20,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-65	LMR11-65	LMR11-66	LMR11-66	LMR11-66	LMR11-66
	Field Sample ID	LMR11-65-006	LMR11-65-024	LMR11-66-006	LMR11-66-024	LMR11-66-048	LMR11-66-048FS
	Sample Date	8/6/2011	8/6/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
	Depth Interval (in bss)	0- 6	6- 24	0- 6	6- 24	24- 48	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0.2	7.1	0	0	0	0
Sand	%	12.4	41.2	11.4	6.7	15.9	9.7
Silt	%	27.8	18.4	38	39.5	37	40.8
Clay	%	59.6	33.3	50.6	53.8	47.1	49.5
Coarse Sand	%	0.5	4.6	1	0	0	0
Medium Sand	%	2.9	12.9	0.8	0.5	0.1	0.1
Fine Sand	%	9	23.7	9.6	6.2	15.8	9.6
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	96.7	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.8	92.9	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	99.3	88.3	99	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	98.6	83.3	98.6	99.9	100	100
Sieve Size #40 - Percent Finer	% PASSED	96.4	75.4	98.2	99.5	99.9	99.9
Sieve Size #60 - Percent Finer	% PASSED	92.7	62.9	97.8	99.2	99.7	99.8
Sieve Size #80 - Percent Finer	% PASSED	91	57.9	97.4	98.8	98.9	99.5
Sieve Size #100 - Percent Finer	% PASSED	90.1	55.9	96.7	98.2	97	98.8
Sieve Size #200 - Percent Finer	% PASSED	87.4	51.7	88.6	93.3	84.1	90.3
Hydrometer Reading 1 - Percent Finer	% PASSED	84.3	48.7	75.9	85.2	69.9	72.5
Hydrometer Reading 2 - Percent Finer	% PASSED	79.7	45.7	72	78.5	65.7	68.3
Hydrometer Reading 3 - Percent Finer	% PASSED	70.4	40.6	64.4	67.5	59.5	62.1
Hydrometer Reading 4 - Percent Finer	% PASSED	64.2	37	56.7	60.5	53.3	57.9
Hydrometer Reading 5 - Percent Finer	% PASSED	59.6	33.3	50.6	53.8	47.1	49.5
Hydrometer Reading 6 - Percent Finer	% PASSED	48.8	26	41	45	36.6	41
Hydrometer Reading 7 - Percent Finer	% PASSED	36.4	19.4	33	35.8	30.2	30.4
TOC							
TOC	mg/kg	17,700	22,000	28,000	26,500	23,800 J	24,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-66	LMR11-66	LMR11-66	LMR11-67	LMR11-67	LMR11-67
	Field Sample ID	LMR11-66-072	LMR11-66-096	LMR11-66-117	LMR11-67-006	LMR11-67-024	LMR11-67-048
	Sample Date	8/7/2011	8/7/2011	8/7/2011	8/6/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	48- 72	72- 96	96- 117	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0.3	0	1.3
Sand	%	4.1	30.8	13.5	24.3	8.9	11
Silt	%	43.7	32.8	40.7	44.5	39.7	31.3
Clay	%	52.2	36.4	45.8	30.9	51.4	56.4
Coarse Sand	%	0	0.2	0.2	0	0	0.5
Medium Sand	%	0	0.7	0.5	1.4	0.8	1.3
Fine Sand	%	4.1	29.9	12.8	22.9	8.1	9.2
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	99.7	100	98.7
Sieve Size #10 - Percent Finer	% PASSED	100	99.8	99.8	99.7	100	98.2
Sieve Size #20 - Percent Finer	% PASSED	100	99.7	99.6	99.1	99.6	97.9
Sieve Size #40 - Percent Finer	% PASSED	100	99.1	99.3	98.3	99.2	96.9
Sieve Size #60 - Percent Finer	% PASSED	99.9	95.3	98.6	95.7	97.5	93.6
Sieve Size #80 - Percent Finer	% PASSED	99.7	86.5	97.6	92.9	96.2	91.6
Sieve Size #100 - Percent Finer	% PASSED	99.4	80.2	96.2	90.2	95.4	90.7
Sieve Size #200 - Percent Finer	% PASSED	95.9	69.2	86.5	75.4	91.1	87.7
Hydrometer Reading 1 - Percent Finer	% PASSED	74.7	54.1	69.7	55.3	78	80.9
Hydrometer Reading 2 - Percent Finer	% PASSED	70.6	50	66.5	47.5	72.2	75.8
Hydrometer Reading 3 - Percent Finer	% PASSED	66.6	45.9	58.5	39.7	64	69.3
Hydrometer Reading 4 - Percent Finer	% PASSED	60.5	41.8	52.2	34.8	58.3	62.8
Hydrometer Reading 5 - Percent Finer	% PASSED	52.2	36.4	45.8	30.9	51.4	56.4
Hydrometer Reading 6 - Percent Finer	% PASSED	44	29.4	37.7	25	42.1	47.3
Hydrometer Reading 7 - Percent Finer	% PASSED	35.7	22.6	29.7	18.1	29.5	33.1
TOC							
TOC	mg/kg	25,600	24,500	34,900	24,400	27,300	29,400

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-67	LMR11-68	LMR11-68	LMR11-68	LMR11-68	LMR11-68
	Field Sample ID	LMR11-67-077	LMR11-68-006	LMR11-68-024	LMR11-68-048	LMR11-68-072	LMR11-68-096
	Sample Date	8/6/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
	Depth Interval (in bss)	48- 77	0- 6	6- 24	24- 48	48- 72	72- 96
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	0	0	0
Sand	%	27.5	9.4	3.3	2.7	5.1	2.8
Silt	%	32.7	40.7	40.6	31.7	32.3	31.8
Clay	%	39.8	49.9	56.1	65.6	62.6	65.4
Coarse Sand	%	0	0	0	0	0	0
Medium Sand	%	3	0.4	0.1	0.3	0.5	0.5
Fine Sand	%	24.5	9	3.2	2.4	4.6	2.3
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.3	99.7	99.9	99.8	99.8	99.8
Sieve Size #40 - Percent Finer	% PASSED	97	99.6	99.9	99.7	99.5	99.5
Sieve Size #60 - Percent Finer	% PASSED	88.8	99.3	99.9	99.6	99.3	99.2
Sieve Size #80 - Percent Finer	% PASSED	82.7	97.8	99.9	99.4	99.1	98.9
Sieve Size #100 - Percent Finer	% PASSED	79.7	96.4	99.7	99.1	98.6	98.7
Sieve Size #200 - Percent Finer	% PASSED	72.5	90.6	96.7	97.3	94.9	97.2
Hydrometer Reading 1 - Percent Finer	% PASSED	61	77.1	84.4	94	87.5	88.1
Hydrometer Reading 2 - Percent Finer	% PASSED	56.6	71.3	78.7	87.9	83.3	84
Hydrometer Reading 3 - Percent Finer	% PASSED	49.9	63.5	71.2	81.9	79.2	77.8
Hydrometer Reading 4 - Percent Finer	% PASSED	44.3	57.7	63.6	73.6	72.9	71.6
Hydrometer Reading 5 - Percent Finer	% PASSED	39.8	49.9	56.1	65.6	62.6	65.4
Hydrometer Reading 6 - Percent Finer	% PASSED	33.1	42	46.4	53.5	50.3	55
Hydrometer Reading 7 - Percent Finer	% PASSED	23	32.2	35.1	27.2	38	42.6
TOC							
TOC	mg/kg	32,800	27,000	23,600	23,800	22,400	23,000

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-69	LMR11-70	LMR11-70	LMR11-70	LMR11-70	LMR11-70
	Field Sample ID	LMR11-69-006	LMR11-70-006	LMR11-70-024	LMR11-70-048	LMR11-70-072	LMR11-70-072FS
	Sample Date	8/6/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011	8/7/2011
	Depth Interval (in bss)	0- 6	0- 6	6- 24	24- 48	48- 72	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	18	0	0	0	0	3
Sand	%	76.6	1.7	0.3	4.9	13.2	16.2
Silt	%	4.1	30.4	28.5	34	27.8	31.6
Clay	%	1.3	67.9	71.2	61.1	59	49.2
Coarse Sand	%	15	0	0	0	0	4
Medium Sand	%	40.5	0.7	0.1	0.4	3	1.2
Fine Sand	%	21.1	1	0.2	4.5	10.2	11
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	95.5	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	82	100	100	100	100	97
Sieve Size #10 - Percent Finer	% PASSED	67	100	100	100	100	93
Sieve Size #20 - Percent Finer	% PASSED	45.1	99.5	100	99.9	98.8	92.7
Sieve Size #40 - Percent Finer	% PASSED	26.5	99.3	99.9	99.6	97	91.8
Sieve Size #60 - Percent Finer	% PASSED	10.9	99.2	99.9	98.7	95.4	90.1
Sieve Size #80 - Percent Finer	% PASSED	7.1	99	99.9	97.3	93.7	88.6
Sieve Size #100 - Percent Finer	% PASSED	6.4	99	99.9	96.6	92.7	87.4
Sieve Size #200 - Percent Finer	% PASSED	5.4	98.3	99.7	95.1	86.8	80.8
Hydrometer Reading 1 - Percent Finer	% PASSED	2.8	91.4	95.1	94.5	84	72.4
Hydrometer Reading 2 - Percent Finer	% PASSED	2.3	87.5	91.4	87.2	82.1	68.1
Hydrometer Reading 3 - Percent Finer	% PASSED	2.3	79.8	82.4	76.1	72.6	60.7
Hydrometer Reading 4 - Percent Finer	% PASSED	1.8	75.9	76.9	70.6	66.6	55
Hydrometer Reading 5 - Percent Finer	% PASSED	1.3	67.9	71.2	61.1	59	49.2
Hydrometer Reading 6 - Percent Finer	% PASSED	0.8	58.2	58.4	51.9	49.6	39
Hydrometer Reading 7 - Percent Finer	% PASSED	0.3	46.7	45.7	39	38.2	28.9
TOC							
TOC	mg/kg	45,400	23,600	25,500	29,000	37,000	35,800

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-70	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-71
	Field Sample ID	LMR11-70-085	LMR11-71-006	LMR11-71-024	LMR11-71-024FS	LMR11-71-048	LMR11-71-072
	Sample Date	8/7/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/6/2011
	Depth Interval (in bss)	72- 85	0- 6	6- 24	6- 24	24- 48	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	0.2	0	0	0	0	0
Sand	%	7.2	3.3	0.9	1.1	0.5	3.2
Silt	%	28.9	40.8	39	37.3	39.7	35.5
Clay	%	63.7	55.9	60.1	61.6	59.8	61.3
Coarse Sand	%	1.1	0	0	0	0	0
Medium Sand	%	0.7	0.5	0.1	0.2	0	0
Fine Sand	%	5.4	2.8	0.8	0.9	0.5	3.2
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	99.8	100	100	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	98.7	100	100	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	98.5	99.9	100	99.9	100	100
Sieve Size #40 - Percent Finer	% PASSED	98	99.5	99.9	99.8	100	100
Sieve Size #60 - Percent Finer	% PASSED	97	99.2	99.9	99.7	100	99.8
Sieve Size #80 - Percent Finer	% PASSED	95.7	99	99.8	99.6	100	99.5
Sieve Size #100 - Percent Finer	% PASSED	94.9	98.8	99.6	99.4	99.9	99.1
Sieve Size #200 - Percent Finer	% PASSED	92.6	96.7	99.1	98.9	99.5	96.8
Hydrometer Reading 1 - Percent Finer	% PASSED	87.3	88.9	91.9	90.1	90.2	88.4
Hydrometer Reading 2 - Percent Finer	% PASSED	82.9	81.6	86	84.8	84.5	83.6
Hydrometer Reading 3 - Percent Finer	% PASSED	75.5	72.4	76.8	75.8	73.1	75.7
Hydrometer Reading 4 - Percent Finer	% PASSED	68.1	65.1	65.7	68.7	65.5	67.7
Hydrometer Reading 5 - Percent Finer	% PASSED	63.7	55.9	60.1	61.6	59.8	61.3
Hydrometer Reading 6 - Percent Finer	% PASSED	53.2	44.6	48.7	50.6	48.1	49.9
Hydrometer Reading 7 - Percent Finer	% PASSED	41.4	33.6	35.8	38.1	36.7	40.4
TOC							
TOC	mg/kg	29,000	27,700	21,600	19,800	20,200	23,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-71	LMR11-71	LMR11-71	LMR11-71	LMR11-72	LMR11-72
	Field Sample ID	LMR11-71-096	LMR11-71-120	LMR11-71-144	LMR11-71-161	LMR11-72-006	LMR11-72-024
	Sample Date	8/6/2011	8/6/2011	8/6/2011	8/6/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	72- 96	96- 120	120- 144	144- 161	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0.2	1.3	2.4	0	0.6	21.4
Sand	%	6.6	26.8	20.9	9.6	26	62.9
Silt	%	42.5	29.7	28.9	35.5	39.2	13.3
Clay	%	50.7	42.2	47.8	54.9	34.2	2.4
Coarse Sand	%	0.1	4.9	2	0.5	1.1	7.5
Medium Sand	%	0.6	10.2	5.9	2.8	3	15.7
Fine Sand	%	5.9	11.7	13	6.3	21.9	39.7
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	98.4	100	100	87.9
Sieve Size #4 - Percent Finer	% PASSED	99.8	98.7	97.6	100	99.4	78.6
Sieve Size #10 - Percent Finer	% PASSED	99.7	93.8	95.6	99.5	98.3	71.1
Sieve Size #20 - Percent Finer	% PASSED	99.5	89.4	93.7	98.4	97.5	65.9
Sieve Size #40 - Percent Finer	% PASSED	99.1	83.6	89.7	96.7	95.3	55.4
Sieve Size #60 - Percent Finer	% PASSED	98.5	78.6	84.7	94.4	89.4	38.7
Sieve Size #80 - Percent Finer	% PASSED	97.9	76.5	81.9	93.2	84.1	27.2
Sieve Size #100 - Percent Finer	% PASSED	97.3	75.4	80.3	92.5	81.4	22.4
Sieve Size #200 - Percent Finer	% PASSED	93.2	71.9	76.7	90.4	73.4	15.7
Hydrometer Reading 1 - Percent Finer	% PASSED	79.8	65.9	72.9	85.4	57.7	7.3
Hydrometer Reading 2 - Percent Finer	% PASSED	73.8	61.5	68.2	80.3	51.1	6.2
Hydrometer Reading 3 - Percent Finer	% PASSED	63.1	54.1	62	70.2	44.4	4.1
Hydrometer Reading 4 - Percent Finer	% PASSED	57	46.7	54.1	63.4	37.7	2.9
Hydrometer Reading 5 - Percent Finer	% PASSED	50.7	42.2	47.8	54.9	34.2	2.4
Hydrometer Reading 6 - Percent Finer	% PASSED	40.1	34.6	38.2	44.5	24.3	0.8
Hydrometer Reading 7 - Percent Finer	% PASSED	30.9	27.2	30.3	34.1	14.3	-0.2
TOC							
TOC	mg/kg	27,800	24,400	29,200	21,100	61,100	21,600

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-72	LMR11-73	LMR11-73	LMR11-73	LMR11-74	LMR11-74
	Field Sample ID	LMR11-72-035	LMR11-73-006	LMR11-73-024	LMR11-73-042	LMR11-74-006	LMR11-74-024
	Sample Date	8/5/2011	8/7/2011	8/7/2011	8/7/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	24- 35	0- 6	6- 24	24- 42	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	1.1	0	0	7.1	0	0.4
Sand	%	67.7	42.2	19.1	55.4	14.9	13.9
Silt	%	26.3	25.2	34.6	10.6	26.3	29.8
Clay	%	4.9	32.6	46.3	26.9	58.8	55.9
Coarse Sand	%	1.6	1	0.9	6.8	0	0.4
Medium Sand	%	7.5	3.6	2.6	16.4	3	1
Fine Sand	%	58.6	37.6	15.6	32.2	11.9	12.5
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	98.3	100	100
Sieve Size #4 - Percent Finer	% PASSED	98.9	100	100	92.9	100	99.6
Sieve Size #10 - Percent Finer	% PASSED	97.3	99	99.1	86.1	100	99.2
Sieve Size #20 - Percent Finer	% PASSED	94.6	97.8	98.1	79.1	98.9	98.9
Sieve Size #40 - Percent Finer	% PASSED	89.8	95.4	96.5	69.7	97	98.2
Sieve Size #60 - Percent Finer	% PASSED	76.2	91.3	94	57.3	91.4	96.2
Sieve Size #80 - Percent Finer	% PASSED	61.9	83.9	91.6	49.2	87.7	92.3
Sieve Size #100 - Percent Finer	% PASSED	49.9	77.2	89.5	44.9	86.8	90.1
Sieve Size #200 - Percent Finer	% PASSED	31.2	57.8	80.9	37.5	85.1	85.7
Hydrometer Reading 1 - Percent Finer	% PASSED	16.7	48.2	66.2	37.5	85.1	80.8
Hydrometer Reading 2 - Percent Finer	% PASSED	13	45.4	63	36.3	79.5	75.5
Hydrometer Reading 3 - Percent Finer	% PASSED	9.3	41.2	58.1	32.9	73.8	70.2
Hydrometer Reading 4 - Percent Finer	% PASSED	7.1	37	51.2	30.6	66.3	63.1
Hydrometer Reading 5 - Percent Finer	% PASSED	4.9	32.6	46.3	26.9	58.8	55.9
Hydrometer Reading 6 - Percent Finer	% PASSED	2.7	26.8	39.5	22.1	47.7	47
Hydrometer Reading 7 - Percent Finer	% PASSED	1.2	21.2	31.3	15.2	36.5	34.6
TOC							
TOC	mg/kg	12,800	21,000	19,600	13,300	22,200	31,500

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-74	LMR11-74	LMR11-74	LMR11-74	LMR11-75	LMR11-75
	Field Sample ID	LMR11-74-048	LMR11-74-048FS	LMR11-74-072	LMR11-74-085	LMR11-75-006	LMR11-75-024
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	24- 48	24- 48	48- 72	72- 85	0- 6	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	0	14.9	25.9	0
Sand	%	2.6	0.7	0.9	73.6	11.3	14.5
Silt	%	32.7	29.8	27	6.1	23.4	39.3
Clay	%	64.7	69.5	72.1	5.4	39.4	46.2
Coarse Sand	%	0	0	0	20.4	1.1	0
Medium Sand	%	0.5	0	0.2	31.9	1.3	0.5
Fine Sand	%	2.1	0.7	0.7	21.3	8.9	14
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	94.1	84.5	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	100	85.1	74.1	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	100	64.7	73	100
Sieve Size #20 - Percent Finer	% PASSED	99.7	100	99.9	48.3	72.3	99.7
Sieve Size #40 - Percent Finer	% PASSED	99.5	100	99.8	32.8	71.7	99.5
Sieve Size #60 - Percent Finer	% PASSED	99.1	99.8	99.6	18	69.7	98.9
Sieve Size #80 - Percent Finer	% PASSED	98.4	99.5	99.4	14	66.9	98.2
Sieve Size #100 - Percent Finer	% PASSED	98.1	99.4	99.3	12.7	65.7	97.1
Sieve Size #200 - Percent Finer	% PASSED	97.4	99.3	99.1	11.5	62.8	85.5
Hydrometer Reading 1 - Percent Finer	% PASSED	92.8	96.8	99.3	8.1	57.4	72.6
Hydrometer Reading 2 - Percent Finer	% PASSED	89.1	92.9	93.9	7.8	51.9	66.9
Hydrometer Reading 3 - Percent Finer	% PASSED	79.7	85.1	86.6	6.8	47.7	57.5
Hydrometer Reading 4 - Percent Finer	% PASSED	74.1	77.3	77.5	6.1	43.6	50
Hydrometer Reading 5 - Percent Finer	% PASSED	64.7	69.5	72.1	5.4	39.4	46.2
Hydrometer Reading 6 - Percent Finer	% PASSED	51.6	57.8	57.5	4	31	34.8
Hydrometer Reading 7 - Percent Finer	% PASSED	38.5	42.1	41	3	28.4	23.7
TOC							
TOC	mg/kg	21,800	29,800	25,200	10,800	29,700	41,700

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-75	LMR11-75	LMR11-75	LMR11-76	LMR11-76	LMR11-76
	Field Sample ID	LMR11-75-048	LMR11-75-048FS	LMR11-75-080	LMR11-76-006	LMR11-76-024	LMR11-76-048
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	24- 48	24- 48	48- 80	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	12	0.6	0.5	0
Sand	%	3.5	3.8	5.6	11.4	30.1	10.5
Silt	%	32.3	30.9	31	28.9	23.6	30.3
Clay	%	64.2	65.3	51.4	59.1	45.8	59.2
Coarse Sand	%	0	0	1	1.4	1.4	0.4
Medium Sand	%	0.3	0.3	1.1	4.2	9.4	2.4
Fine Sand	%	3.2	3.5	3.5	5.8	19.3	7.7
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	89.9	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	88	99.4	99.5	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	87	98	98.1	99.6
Sieve Size #20 - Percent Finer	% PASSED	99.9	99.9	86.5	96.7	96	99.2
Sieve Size #40 - Percent Finer	% PASSED	99.7	99.7	85.9	93.8	88.7	97.2
Sieve Size #60 - Percent Finer	% PASSED	99.2	99.1	84.9	91.3	78.3	94.9
Sieve Size #80 - Percent Finer	% PASSED	98.8	98.6	84.4	89.9	76	94
Sieve Size #100 - Percent Finer	% PASSED	98.4	98.2	84.1	89.7	75.1	93.3
Sieve Size #200 - Percent Finer	% PASSED	96.5	96.2	82.4	88	69.4	89.5
Hydrometer Reading 1 - Percent Finer	% PASSED	94.9	93.8	78.3	86.8	66.2	83.5
Hydrometer Reading 2 - Percent Finer	% PASSED	87.7	88.5	73.2	81.3	62.8	78.7
Hydrometer Reading 3 - Percent Finer	% PASSED	78.6	79.6	64.8	70.2	57.1	72.2
Hydrometer Reading 4 - Percent Finer	% PASSED	71.4	72.4	58.1	64.6	50.4	64.1
Hydrometer Reading 5 - Percent Finer	% PASSED	64.2	65.3	51.4	59.1	45.8	59.2
Hydrometer Reading 6 - Percent Finer	% PASSED	49.6	50.9	42.8	47.8	36.8	46.3
Hydrometer Reading 7 - Percent Finer	% PASSED	37.1	40.3	31.2	35.5	27.8	34.9
TOC							
TOC	mg/kg	33,600	26,400	24,200	29,100	13,900	23,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-76	LMR11-76	LMR11-76	LMR11-77	LMR11-77	LMR11-77
	Field Sample ID	LMR11-76-072	LMR11-76-096	LMR11-76-120	LMR11-77-006	LMR11-77-024	LMR11-77-048
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	48- 72	72- 96	96- 120	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	1.2	NA	33.3	0
Sand	%	4.4	0.6	9.9	NA	15.3	13.5
Silt	%	25.4	26.5	25	NA	15	32.6
Clay	%	70.2	72.9	63.9	NA	36.4	53.9
Coarse Sand	%	0	0	0.5	NA	1.5	0.7
Medium Sand	%	0.8	0.1	1.5	NA	4.2	2.9
Fine Sand	%	3.6	0.5	7.9	NA	9.6	9.9
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	NA	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	NA	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	NA	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	NA	67.2	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	NA	67.2	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	NA	67.2	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	98.8	NA	66.7	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	98.3	NA	65.2	99.3
Sieve Size #20 - Percent Finer	% PASSED	99.9	100	98.1	NA	63.6	98.2
Sieve Size #40 - Percent Finer	% PASSED	99.2	99.9	96.8	NA	61	96.4
Sieve Size #60 - Percent Finer	% PASSED	98.4	99.7	94.2	NA	57.5	93.7
Sieve Size #80 - Percent Finer	% PASSED	98.2	99.7	92.6	NA	55.5	92.2
Sieve Size #100 - Percent Finer	% PASSED	97.9	99.7	91.6	NA	54.5	91.1
Sieve Size #200 - Percent Finer	% PASSED	95.6	99.4	88.9	NA	51.4	86.5
Hydrometer Reading 1 - Percent Finer	% PASSED	94.5	99.2	88.3	NA	50.3	79.1
Hydrometer Reading 2 - Percent Finer	% PASSED	91	95.7	84.8	NA	47.2	72.4
Hydrometer Reading 3 - Percent Finer	% PASSED	84.1	85.2	74.3	NA	42.6	65.7
Hydrometer Reading 4 - Percent Finer	% PASSED	77.2	81.7	70.8	NA	40.3	59
Hydrometer Reading 5 - Percent Finer	% PASSED	70.2	72.9	63.9	NA	36.4	53.9
Hydrometer Reading 6 - Percent Finer	% PASSED	58.1	58.9	51.6	NA	30.2	43.9
Hydrometer Reading 7 - Percent Finer	% PASSED	44.3	44.9	39.4	NA	24.8	35.5
TOC							
TOC	mg/kg	23,600	22,400	24,000	24,800	30,200	31,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-77	LMR11-77	LMR11-78	LMR11-79	LMR11-79	LMR11-79
	Field Sample ID	LMR11-77-072	LMR11-77-120	LMR11-78-014	LMR11-79-006	LMR11-79-024	LMR11-79-024FS
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/4/2011	8/4/2011	8/4/2011
	Depth Interval (in bss)	48- 72	72- 120	0- 14	0- 6	6- 24	6- 24
Chemical Name	Unit						
Grain Size							
Gravel	%	0	0	29.8	0	0	0
Sand	%	3.8	1.6	56	4.6	2.6	7.3
Silt	%	25.4	27.5	5.7	28.6	29	29.4
Clay	%	70.8	70.9	8.5	66.8	68.4	63.3
Coarse Sand	%	0	0	5.4	0	0	0
Medium Sand	%	0.7	0.5	11.3	0.3	0.4	1.2
Fine Sand	%	3.1	1.1	39.3	4.3	2.2	6.1
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	88.9	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	73.1	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	72.3	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	100	100	70.2	100	100	100
Sieve Size #10 - Percent Finer	% PASSED	100	100	64.8	100	100	100
Sieve Size #20 - Percent Finer	% PASSED	99.7	99.7	57.9	99.9	99.7	99.5
Sieve Size #40 - Percent Finer	% PASSED	99.3	99.5	53.5	99.7	99.6	98.8
Sieve Size #60 - Percent Finer	% PASSED	98.9	99.4	46.7	99.2	99.4	97.3
Sieve Size #80 - Percent Finer	% PASSED	98.6	99.3	27.6	98.6	99.1	96
Sieve Size #100 - Percent Finer	% PASSED	98.3	99.1	22.6	98.1	98.8	95.2
Sieve Size #200 - Percent Finer	% PASSED	96.2	98.4	14.2	95.4	97.4	92.7
Hydrometer Reading 1 - Percent Finer	% PASSED	93	95.1	17.3	89.5	97.2	92.4
Hydrometer Reading 2 - Percent Finer	% PASSED	89.6	91.4	14.4	85.2	89.6	85.9
Hydrometer Reading 3 - Percent Finer	% PASSED	82.9	84	12	79.5	82.1	79.4
Hydrometer Reading 4 - Percent Finer	% PASSED	77.8	78.4	10.3	73.9	74.5	71.4
Hydrometer Reading 5 - Percent Finer	% PASSED	70.8	70.9	8.5	66.8	68.4	63.3
Hydrometer Reading 6 - Percent Finer	% PASSED	60.8	59.8	6.2	55.5	56.3	50.1
Hydrometer Reading 7 - Percent Finer	% PASSED	49	46.8	4.4	41.3	41.2	37.4
TOC							
TOC	mg/kg	41,500	35,400	14,700	29,400	27,700	34,300

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-79	LMR11-80	LMR11-80	LMR11-80	LMR11-81	LMR11-81
	Field Sample ID	LMR11-79-054	LMR11-80-006	LMR11-80-024	LMR11-80-056	LMR11-81-006	LMR11-81-019
	Sample Date	8/4/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	24- 54	0- 6	6- 24	24- 56	0- 6	6- 19
Chemical Name	Unit						
Grain Size							
Gravel	%	0.6	1.4	0	6.9	5.2	21.8
Sand	%	5.2	37.5	6.9	47.4	59.9	68.3
Silt	%	33.8	23.3	29.7	13.4	20.9	6
Clay	%	60.4	37.8	63.4	32.3	14	4
Coarse Sand	%	0.4	1.4	0	1.7	2	5.3
Medium Sand	%	1.6	4	0.6	15	15.6	26.2
Fine Sand	%	3.2	32.1	6.3	30.7	42.3	36.8
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100	100	100	95.8	98.9	89.4
Sieve Size #4 - Percent Finer	% PASSED	99.4	98.6	100	93.1	94.8	78.2
Sieve Size #10 - Percent Finer	% PASSED	99	97.2	100	91.4	92.8	72.9
Sieve Size #20 - Percent Finer	% PASSED	98.3	95.2	99.8	87.3	88.9	65.2
Sieve Size #40 - Percent Finer	% PASSED	97.4	93.2	99.4	76.4	77.2	46.7
Sieve Size #60 - Percent Finer	% PASSED	96.7	91.7	99	62.8	67.8	30.4
Sieve Size #80 - Percent Finer	% PASSED	96.2	83.9	98	56.5	54.6	17.4
Sieve Size #100 - Percent Finer	% PASSED	95.8	78.3	96.8	53.3	48.2	13.9
Sieve Size #200 - Percent Finer	% PASSED	94.2	61.1	93.1	45.7	34.9	9.9
Hydrometer Reading 1 - Percent Finer	% PASSED	83.3	55.2	89.2	44.2	26.3	6.9
Hydrometer Reading 2 - Percent Finer	% PASSED	80.4	51.2	82.8	40.6	23.5	6.2
Hydrometer Reading 3 - Percent Finer	% PASSED	71.8	44.5	74.7	37.1	20.1	5.8
Hydrometer Reading 4 - Percent Finer	% PASSED	66.1	41.8	69.9	35.9	16.7	4.7
Hydrometer Reading 5 - Percent Finer	% PASSED	60.4	37.8	63.4	32.3	14	4
Hydrometer Reading 6 - Percent Finer	% PASSED	47.2	32.4	51.9	25	11.3	3.2
Hydrometer Reading 7 - Percent Finer	% PASSED	36	25.7	42.2	20.3	8.6	2.5
TOC							
TOC	mg/kg	25,500	32,400	24,600	11,700	19,400	10,800

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-82	LMR11-82	LMR11-82	LMR11-83	LMR11-83	LMR11-83
	Field Sample ID	LMR11-82-006	LMR11-82-024	LMR11-82-055	LMR11-83-006	LMR11-83-024	LMR11-83-048
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	0- 6	6- 24	24- 55	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	0.7	0	0.5	11.2	4.3	5.8
Sand	%	56.2	66.9	78.3	18.8	20.6	43.4
Silt	%	16.2	13.9	14.7	28.5	25.9	21.5
Clay	%	26.9	19.2	6.5	41.5	49.2	29.3
Coarse Sand	%	0.5	0.8	1.9	1.6	1.4	2.8
Medium Sand	%	2.1	7.8	19	4	4.2	12.5
Fine Sand	%	53.6	58.3	57.4	13.2	15	28.1
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	99.3	100	100	92.2	100	98.4
Sieve Size #4 - Percent Finer	% PASSED	99.3	100	99.5	88.8	95.7	94.2
Sieve Size #10 - Percent Finer	% PASSED	98.8	99.2	97.6	87.2	94.3	91.4
Sieve Size #20 - Percent Finer	% PASSED	98.3	96.8	91.4	85.9	92.8	87.5
Sieve Size #40 - Percent Finer	% PASSED	96.7	91.4	78.6	83.2	90.1	78.9
Sieve Size #60 - Percent Finer	% PASSED	69.6	65.2	49.9	78.5	85.3	68.2
Sieve Size #80 - Percent Finer	% PASSED	50.1	50.2	36.4	74.7	80.3	60.7
Sieve Size #100 - Percent Finer	% PASSED	47.6	44.9	31.2	73.3	78.1	57.6
Sieve Size #200 - Percent Finer	% PASSED	43.1	33.1	21.2	70	75.1	50.8
Hydrometer Reading 1 - Percent Finer	% PASSED	38	31.9	13.7	61	69.6	42.2
Hydrometer Reading 2 - Percent Finer	% PASSED	36.3	29.6	11.5	56.1	65.2	39.1
Hydrometer Reading 3 - Percent Finer	% PASSED	32.9	26.1	9.3	51.2	59.4	35.4
Hydrometer Reading 4 - Percent Finer	% PASSED	29.5	22.6	8.1	47.3	55	31.6
Hydrometer Reading 5 - Percent Finer	% PASSED	26.9	19.2	6.5	41.5	49.2	29.3
Hydrometer Reading 6 - Percent Finer	% PASSED	22.6	14.4	4.7	32.7	38.9	24
Hydrometer Reading 7 - Percent Finer	% PASSED	17.5	9.9	3.7	24	28.6	17.1
TOC							
TOC	mg/kg	16,200	21,700	27,800	22,700	24,800	38,000

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-83	LMR11-83	LMR11-84	LMR11-84	LMR11-84	LMR11-84
	Field Sample ID	LMR11-83-072	LMR11-83-087	LMR11-84-006	LMR11-84-024	LMR11-84-048	LMR11-84-072
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	48- 72	72- 87	0- 6	6- 24	24- 48	48- 72
Chemical Name	Unit						
Grain Size							
Gravel	%	5.8	24.1	0	4.1	0.5	0.2
Sand	%	49.1	64.5	12	17.3	69.7	37.8
Silt	%	17.8	6.4	36.7	24.3	12.7	29
Clay	%	27.3	5	51.3	54.3	17.1	33
Coarse Sand	%	0.7	7.6	0	0.7	1.9	1
Medium Sand	%	6.9	18.2	0.9	4	16.8	10.2
Fine Sand	%	41.5	38.7	11.1	12.6	51	26.6
Sieve Size 3 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100	86.6	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	95.2	80.6	100	96.5	100	100
Sieve Size #4 - Percent Finer	% PASSED	94.2	75.9	100	95.9	99.5	99.8
Sieve Size #10 - Percent Finer	% PASSED	93.5	68.3	100	95.2	97.6	98.8
Sieve Size #20 - Percent Finer	% PASSED	91.9	60.2	99.6	94	92.9	96.2
Sieve Size #40 - Percent Finer	% PASSED	86.6	50.1	99.1	91.2	80.8	88.6
Sieve Size #60 - Percent Finer	% PASSED	71.2	31	98.3	86.4	58.7	77.6
Sieve Size #80 - Percent Finer	% PASSED	60.5	20.4	97.6	84	47	72.9
Sieve Size #100 - Percent Finer	% PASSED	55.7	16.7	96.8	82.7	40.8	70.4
Sieve Size #200 - Percent Finer	% PASSED	45.1	11.4	88	78.6	29.8	62
Hydrometer Reading 1 - Percent Finer	% PASSED	41.8	10.4	72.2	74.4	25.3	49.7
Hydrometer Reading 2 - Percent Finer	% PASSED	39.1	8.8	67	70.7	23.4	45.8
Hydrometer Reading 3 - Percent Finer	% PASSED	33.8	7.3	61.8	63.2	20.3	42
Hydrometer Reading 4 - Percent Finer	% PASSED	29.9	5.7	55.3	59.4	18.4	38.1
Hydrometer Reading 5 - Percent Finer	% PASSED	27.3	5	51.3	54.3	17.1	33
Hydrometer Reading 6 - Percent Finer	% PASSED	22	3.5	40.9	45.6	14.6	26.4
Hydrometer Reading 7 - Percent Finer	% PASSED	15.3	2.7	31.9	34.4	11.6	18.6
TOC							
TOC	mg/kg	18,500	9,430 J	23,900	34,100	21,600	26,900 J

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-84	LMR11-84	LMR11-84	LMR11-85	LMR11-85	LMR11-85
	Field Sample ID	LMR11-84-072DP	LMR11-84-096	LMR11-84-115	LMR11-85-006	LMR11-85-024	LMR11-85-048
	Sample Date	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011	8/5/2011
	Depth Interval (in bss)	48- 72	72- 96	96- 115	0- 6	6- 24	24- 48
Chemical Name	Unit						
Grain Size							
Gravel	%	NA	7	0.2	1.5	0	0
Sand	%	NA	53.7	44.3	40	28.4	6
Silt	%	NA	18.4	28	22	23.3	39.4
Clay	%	NA	20.9	27.5	36.5	48.3	54.6
Coarse Sand	%	NA	3.2	0.9	0.5	0	0
Medium Sand	%	NA	16.4	8.3	5.8	3.6	0.7
Fine Sand	%	NA	34.1	35.1	33.7	24.8	5.3
Sieve Size 3 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	NA	100	100	100	100	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	NA	96	100	100	100	100
Sieve Size #4 - Percent Finer	% PASSED	NA	93	99.8	98.5	100	100
Sieve Size #10 - Percent Finer	% PASSED	NA	89.8	98.9	98	100	100
Sieve Size #20 - Percent Finer	% PASSED	NA	85.2	97	96.5	98.6	99.8
Sieve Size #40 - Percent Finer	% PASSED	NA	73.4	90.6	92.2	96.4	99.3
Sieve Size #60 - Percent Finer	% PASSED	NA	55.6	76.8	83	92	98.3
Sieve Size #80 - Percent Finer	% PASSED	NA	49.6	71.1	70.5	81.9	96.2
Sieve Size #100 - Percent Finer	% PASSED	NA	46.8	68.3	67.2	78.5	95.7
Sieve Size #200 - Percent Finer	% PASSED	NA	39.3	55.5	58.5	71.6	94
Hydrometer Reading 1 - Percent Finer	% PASSED	NA	31.8	45.3	54.1	70.1	91.1
Hydrometer Reading 2 - Percent Finer	% PASSED	NA	29	39	50.2	65.7	81.6
Hydrometer Reading 3 - Percent Finer	% PASSED	NA	26.3	37.7	44.4	59.2	70.8
Hydrometer Reading 4 - Percent Finer	% PASSED	NA	22.9	32.6	39.5	52.7	62.7
Hydrometer Reading 5 - Percent Finer	% PASSED	NA	20.9	27.5	36.5	48.3	54.6
Hydrometer Reading 6 - Percent Finer	% PASSED	NA	16	21.1	29.7	38.5	42.4
Hydrometer Reading 7 - Percent Finer	% PASSED	NA	12.6	16	21.9	28.8	31.7
TOC							
TOC	mg/kg	169,000 J	74,000	52,700	20,400	17,000	39,900

Table B-5
Sediment Sample Analytical Results - Physical Properties
Lower Maumee River -Maumee River AOC
Toledo, Lucas County, Ohio

	Location ID	LMR11-85
	Field Sample ID	LMR11-85-074
	Sample Date	8/5/2011
	Depth Interval (in bss)	48- 74
Chemical Name	Unit	
Grain Size		
Gravel	%	0.7
Sand	%	41.3
Silt	%	27.5
Clay	%	30.5
Coarse Sand	%	0.9
Medium Sand	%	14.2
Fine Sand	%	26.2
Sieve Size 3 inch - Percent Finer	% PASSED	100
Sieve Size 2 inch - Percent Finer	% PASSED	100
Sieve Size 1.5 inch - Percent Finer	% PASSED	100
Sieve Size 1 inch - Percent Finer	% PASSED	100
Sieve Size 0.75 inch - Percent Finer	% PASSED	100
Sieve Size 0.375 inch - Percent Finer	% PASSED	100
Sieve Size #4 - Percent Finer	% PASSED	99.3
Sieve Size #10 - Percent Finer	% PASSED	98.4
Sieve Size #20 - Percent Finer	% PASSED	95.4
Sieve Size #40 - Percent Finer	% PASSED	84.2
Sieve Size #60 - Percent Finer	% PASSED	76.1
Sieve Size #80 - Percent Finer	% PASSED	68.5
Sieve Size #100 - Percent Finer	% PASSED	65.5
Sieve Size #200 - Percent Finer	% PASSED	58
Hydrometer Reading 1 - Percent Finer	% PASSED	51.8
Hydrometer Reading 2 - Percent Finer	% PASSED	47
Hydrometer Reading 3 - Percent Finer	% PASSED	40.2
Hydrometer Reading 4 - Percent Finer	% PASSED	34.4
Hydrometer Reading 5 - Percent Finer	% PASSED	30.5
Hydrometer Reading 6 - Percent Finer	% PASSED	24.7
Hydrometer Reading 7 - Percent Finer	% PASSED	18.9
TOC		
TOC	mg/kg	22,900

Notes:

% - Percent
DP - Duplicate
FS - Field Split
ID - Identification
in bss - Inches below sediment surface
J - Concentration estimated
mg/kg - Milligram per kilogram
NA - Not Analyzed
TOC - Total Organic Carbon

**APPENDIX C
PHOTOGRAPHIC LOG**



Site: Lower Maumee River

Photograph No.: 1

Direction: Northeast

Subject: Recovery of core at sampling location LMR11-74

Date: 08/05/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 2

Direction: West

Subject: Recovery of core from sampling location LMR11-59

Date: 08/06/11

Photographer: Mark Loomis



Site: Lower Maumee River
Photograph No.: 3
Direction: West
Subject: Set-up at sampling location LMR11-69

Date: 08/06/11
Photographer: Mark Loomis



Site: Lower Maumee River
Photograph No.: 4
Direction: East
Subject: Collection of core at LMR11-69 near mouth of Swan Creek; poor sediment recovery at this location

Date: 08/06/11
Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 5

Direction: Southeast

Subject: CSO on north side of grain elevators near sampling location LMR11-73

Date: 08/07/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 6

Direction: Southeast

Subject: CSO on east bank of river south of grain elevators

Date: 08/08/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 7

Direction: South

Subject: CSO on south bank near sampling location LMR11-50

Date: 08/08/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 8

Direction: South

Subject: Core collected from LMR11-50 near CSO; odor and sheen observed

Date: 08/08/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 9

Direction: East

Subject: Opened core from location LMR11-50

Date: 08/08/11

Photographer: Jonathan Colomb



Site: Lower Maumee River

Photograph No.: 10

Direction: South

Subject: Libbey Owens Ford glassmaking company from sampling location LMR11-15

Date: 08/09/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 11

Direction: South

Subject: CSO on south bank near sampling location LMR11-16

Date: 08/09/11

Photographer: Mark Loomis



Site: Lower Maumee River

Photograph No.: 12

Direction: Not applicable

Subject: Sediment core being opened prior to sampling

Date: 08/09/11

Photographer: Mark Loomis