Center for Geospatial Data Analysis
Indiana University
Indiana Geological Survey
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Final Report for

Data Compilation and Analysis for the Coastal Nonpoint Source Management Plan

Section 319 Grant Program

ARN: A305-4-59

Report Period: June 3, 2004 – August 2, 2005

Report Completed by: Sally L. Letsinger and
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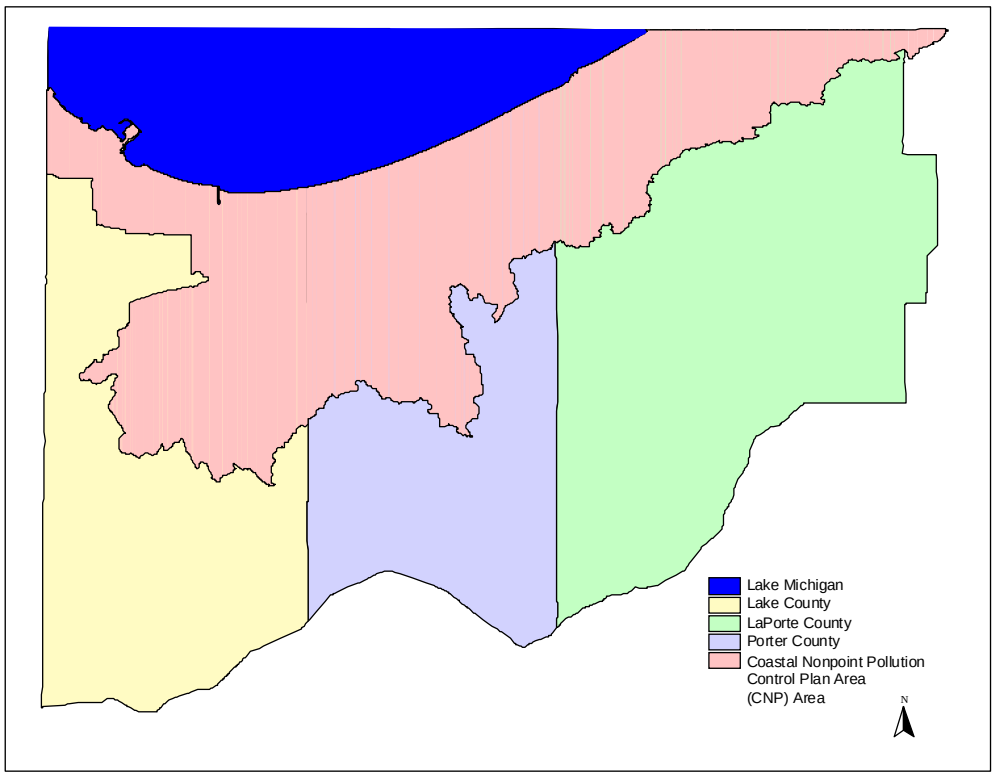

Project tasks outlined in contract ARN: A305-4-59

DUTY A

The Contractor shall compile and analyze existing water quality data in the area designated for the Indiana Lake Michigan Coastal Program (Coastal Zone Area), that is 10 years or less in age. This shall include developing decision criteria to determine if the data are still useful. Results from this task will be used to develop a monitoring plan for Indiana's Coastal Nonpoint Source Management Plan (Task B). The data must comply with the quality assurance/quality control requirements of the Indiana Department of Environmental Management's (IDEM's) Surface Water Quality Assurance Project Plan. Data sources shall include, but not be limited to, the State's Fixed Station data, *E-coli* monitoring data, Pesticide Monitoring data, Indiana Department of Natural Resources (IDNR) fisheries data, U.S. Geological Survey data, *E-coli* Task Force data, and data from external parties that have been reviewed. The Contractor shall coordinate with IDNR's Coastal Program Manager, the State's TMDL Program staff, Watershed Management Section staff and Assessment Branch staff in assessing the correct data to review and in developing the monitoring plan. The Contractor shall submit to the State two (2) hard copies and one (1) electronic copy of a report detailing the results of the data analysis, including the decision criteria to determine if data are still useful.

DUTY B

The Contractor shall develop a plan for future trend monitoring in the Coastal Zone Area based on existing monitoring sites and an analysis of probable point and nonpoint sources and data gaps identified. The Contractor shall insure that the plan satisfies the requirements of the EPA Guidance Specifying Management Measures for Sources of NPS Pollution in Coastal Waters, specifically Chapter 8 which includes assessing changes in pollution loads and water quality over time. The plan shall be written with the State's financial constraints and the Lake Michigan Coastal Program budget in mind. The Contractor shall submit to the State ten (10) hard copies and one (1) electronic copy of the monitoring plan.

DUTY C

The Contractor shall develop Geographical Information System (GIS) ESRI-format shapefiles with metadata for the sampling locations of existing data. The shapefiles shall be used in the review and analysis of the water quality sampling results and in identifying data gaps that exist in the future plan for trend monitoring developed in Task B. All GIS data created or modified by the Contractor for delivery to the State shall meet the Indiana State Agencies Arc/Info Data Collection Standards except for metadata. Metadata shall meet the Federal Geographic Data Committee (FGDC) standard called the Content Standard for Digital Geospatial Metadata. Any deviation from either standard must have prior approval from the State. The Contractor shall provide two (2) copies of all coverages developed to the State on compact disk.

DUTY D

The Contractor shall prepare and submit written reports to the State with each invoice, on at least a quarterly basis. A total of no less than four (4) written quarterly progress reports shall be prepared and submitted by the Contractor to the State (see Section 31). The Contractor shall prepare and submit two (2) hard copies and an electronic copy of a final written summary project report to the State by the close of this project.

Acronyms and Abbreviations

Acronym or Abbreviation	Definition
AIMS	Assessment Information Management System (IDEM water quality database)
cfu/100mL	colony forming units per 100 milliliters (measurement for bacteria)
CNPCPA	Coastal Nonpoint Pollution Control Plan Area
E. coli	*Escherichia coli*
ECTF	Interagency Task Force on *E. coli* (*E. coli* Task Force)
GIS	Geographic Information Systems
HUC	Hydrologic unit code
HUC11	11-digit (subwatershed) hydrologic unit code
HUC14	14-digit (subwatershed) hydrologic unit code
IDEM	Indiana Department of Environmental Management
IDNR	Indiana Department of Natural Resources
ISDH	Indiana State Department of Health
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
WQ	water quality

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I. Executive Summary

According to the Lake Michigan Lakewide Management Plan (USEPA, 2002), although 20 years of regulation brought an overall reduction in pollutant loads to the Lake Michigan basin, data indicate pollutants still negatively impact the chemical, physical and biological components of the Lake Michigan ecosystem. The rivers and tributaries flowing into Lake Michigan convey the contaminants from their source areas to the Lake, and this report attempts to describe the monitoring efforts that have sought to characterize the quality of surface water in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA).

For this project, all water-quality data available from the following sources were assembled into a database:

- IDEM (AIMS) laboratory analyses
- IDEM (AIMS) field monitoring results
- USGS monitoring data
- ECTF (*E. coli*) monitoring data
- IDNR monitoring data

In an effort to determine if, and how many, trends are evident in the data base, we subjected all data sets with more than 20 samples (conventional minimum for statistical analysis) to multiple regression analysis. Of the 1,079 water quality attributes that were analyzed for trend, 536 (50%) exhibited a statistically significant time trend. Of those, 278 (52%) were positive trends (*declining water quality*) and 258 (48%) were negative trends (*improving water quality*).

To aid the process of prioritizing additional reaches for water-quality trend monitoring, a decision tree (Figure 26) was developed. The decision tree can be used to aid in the selection of new monitoring sites as well as to identify sites that represent an opportunity for reduction in sampling efforts (either dismantling a site, reducing sampling frequency, or removing particular parameters from the analysis suite) when funding resources are limited.

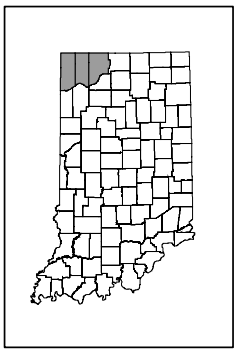
The current monitoring network used by IDEM and supplemented by the ECTF has been successfully used to for identify water-quality trends in the three main rivers in the CNPCPA: Grand Calumet River, Little Calumet River, and Trail Creek. Source areas of the contaminants, however, are still poorly understood in much of the CNPCPA and many of the upstream stations monitored by the ECTF have been disbanded. Therefore, it is recommended that the next step in water-quality monitoring would be to expand the network up drainage, possibly by dismissing redundant stations and reallocating those resources to new stations. Of particular concern is the need for fixed stations in the headwater tributary basins where potential source areas of nonpoint pollution are known to exist. The decision tree developed for this project should provide the basis for selection of new trend monitoring stations. Additional specific recommendations can be found in the full report; however, the key recommendations are:

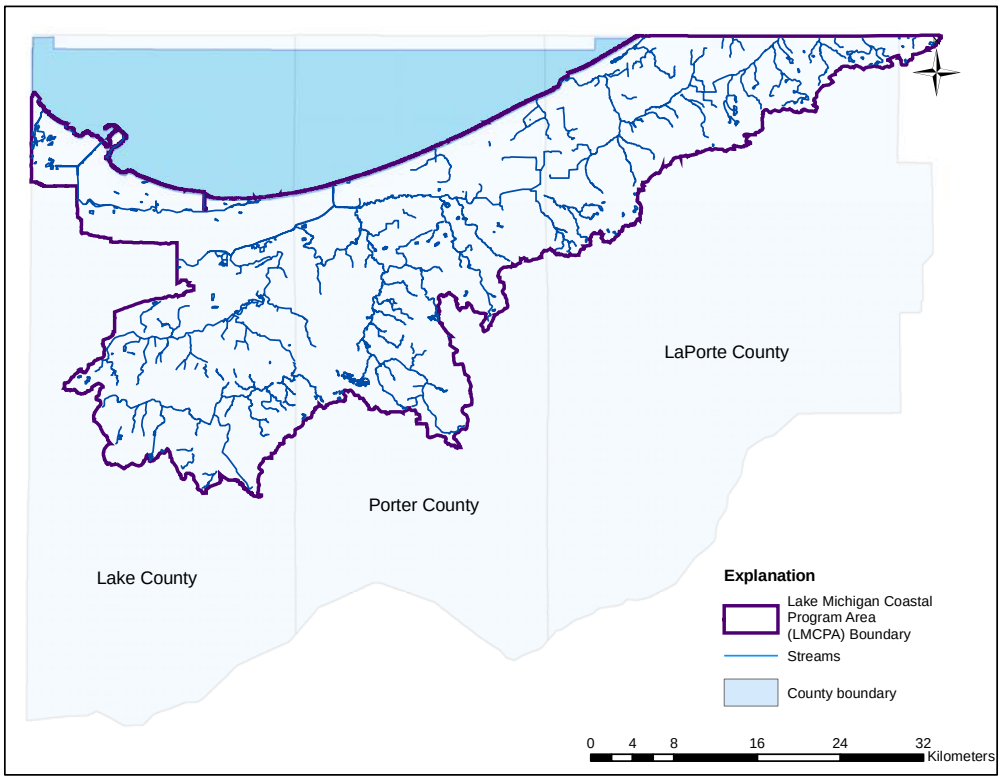
- Partner with other organizations to share long-term water-quality data sets so that trend analyses can incorporate all available data. This type of partnering will benefit all of the agencies that have jurisdiction in the CNPCPA.
- Make use of IDEM investments by requiring IDEM-funded (and/or U.S. EPA) water-quality analyses to adhere to specific quality standards; provide the funded entity with a formatted template (database or spreadsheet) into which their water-quality analyses should be entered; require that the database be submitted to IDEM in digital form along with the GPS locations of the monitoring locations. Incorporate the monitoring locations and water quality analyses into the IDEM (AIMS) database.
- Hydrological modeling can provide insights into process and mechanisms driving some of the observed trends. The data generated by calibrated models allow trends to be identified that are not revealed in field measurements; especially in cases with multiple sources or complex hydrology. Therefore, plans for watershed model development should be part of the IDEM long-term water-quality planning effort.

II. Introduction

According to the Lake Michigan Lakewide Management Plan (USEPA, 2002), although 20 years of regulation brought an overall reduction in pollutant loads to the Lake Michigan basin, data indicate pollutants still negatively impact the chemical, physical and biological components of the Lake Michigan ecosystem. The rivers and tributaries flowing into Lake Michigan convey the contaminants from their source areas to the Lake, and this report attempts to describe the monitoring efforts that have sought to characterize the quality of surface water in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Figure 1 shows the CNPCPA in Indiana, located in the northwestern corner of the state in Lake, Porter, and LaPorte Counties. Figure 2 shows the details of the streams that flow towards Lake Michigan in Indiana as derived from USGS stream data layer shown on 1:24000 topographic maps.

Figure 1. Location of the Coastal Nonpoint Pollution Control Plan Area (CNPCPA) in northwestern Indiana.





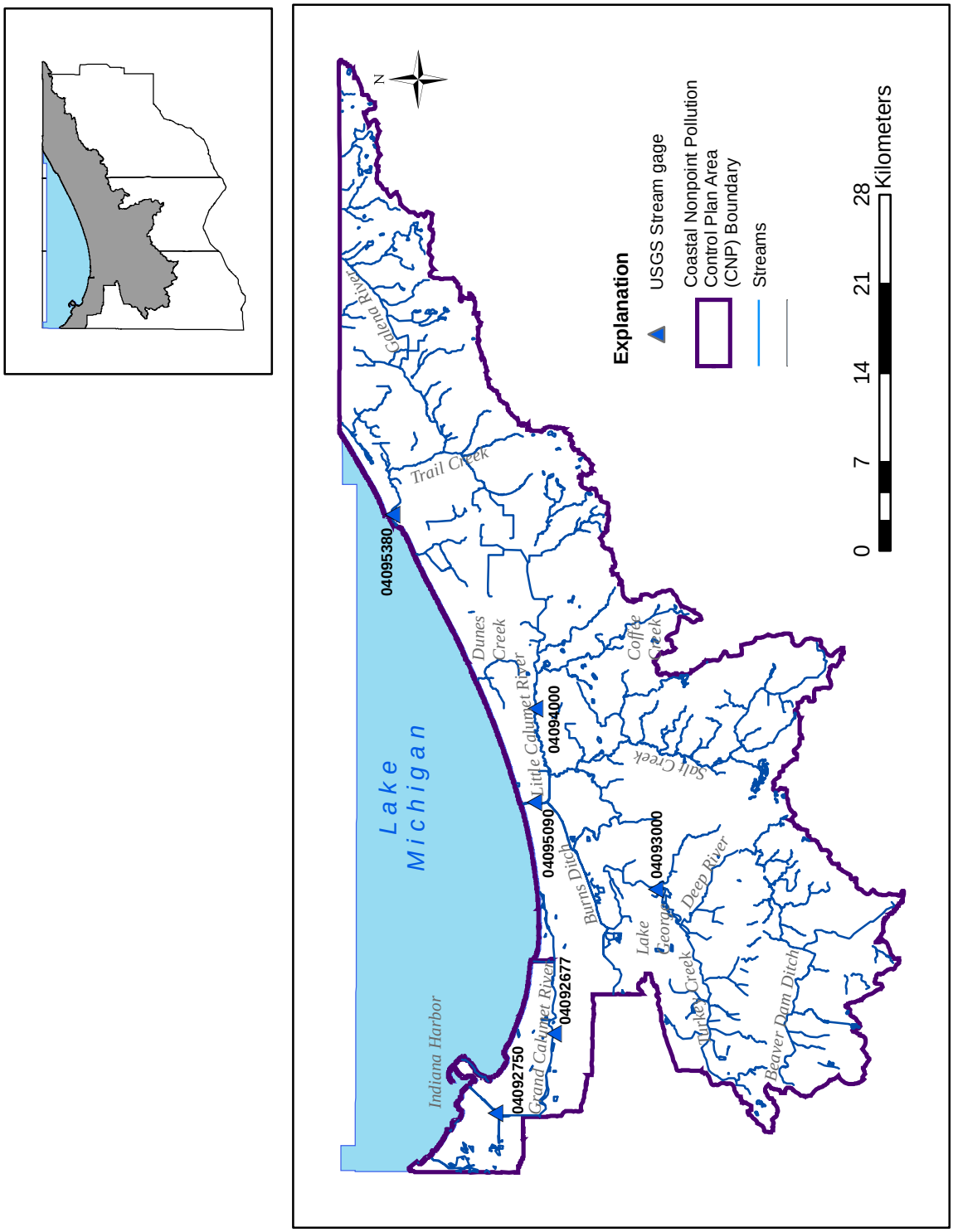


Figure 2. Map showing the Coastal Nonpoint Pollution Control Plan Area, major streams, and active U.S. Geological stream gage locations.

III. Purpose and Scope

This report is an assessment of surface-water quality data in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA) and also includes a trend-monitoring plan developed from the data analysis. The trend-monitoring plan was developed as part of Indiana's Coastal Nonpoint Source Management Plan. The goal of the monitoring plan is to ensure that nonpoint pollution sources are being adequately monitored by the network of monitoring points throughout the CNPCPA.

The data in this report have been collected by the Indiana Department of Environmental Management (IDEM), the United States Geological Survey (USGS), the Interagency Task Force on *E. coli* (ECTF), and the Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR).

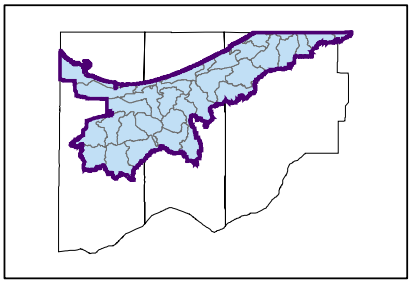
Most of the data available for surface water-quality trend monitoring are from the Indiana Department of Environmental Management's Fixed Station Monitoring Program. The objective of this program is to provide basic long-term time series data sufficient to reveal water-quality trends and provide early detection of potential problems. The program was developed to describe chemical, physical, bacteriological, and biological characteristics of Indiana water over time. The fixed-station monitoring program is operated by the Survey Section of the Indiana Department of Environmental Management's Office of Water Quality (OWQ) in the Assessment Branch. Laboratory analyses for the program are performed at the Indiana State Department of Health (ISDH) Laboratory.

The balance of the data available for development of the water-quality trend monitoring plan for the CNPCPA is from the USGS, ECTF, IDNR, and IDEM field monitoring points. These data sets are from targeted monitoring programs that allow specific areas within the basin to be examined more closely. These data represent samples taken from known locations, but do not necessarily represent a fixed or long-term station; often water samples are simply taken from the edge of the water body. The data from these targeted monitoring programs are discontinuous in time and space. However, the additional historical information can be useful for monitoring or confirming long-term trends that might have existed before the fixed station data were collected, or can be useful for a particular goal. Such is the case with the data collected by the Interagency Task Force on *E. coli*. This group collects data from several beaches on an almost-daily basis during the swimming season (May through September) in order to identify potentially harmful levels of bacterial contamination that should warrant closures of swimming beaches to protect human health. Owing to funding cut-backs, this group currently monitors a suite of locations near the Lake Michigan shore, whereas in the past, they were able to monitor stream tributaries further inland. It was hoped that the historical spatial coverage of *E. coli* sampling results could be used to determine inland source areas for bacterial contamination; however, the period of record of most of the inland stations was insufficient for a trend analysis. Specifics of the trend analysis techniques follow later in this report.

IV. Description of the Coastal Nonpoint Pollution Control Plan Area (CNPCPA)

This report documents the surface-water quality monitoring efforts that have occurred (or are occurring) in the subwatersheds of the CNPCPA. There are nine (9) subwatersheds described by 11-digit hydrologic unit codes (HUC11), and thirty-five (35) subwatersheds described by 14-digit hydrologic unit codes (HUC14) within the CNPCPA. Figure 3 shows these subwatersheds. The average HUC14 subwatershed is 40 km² (15 mi²), and the entire CNPCPA is about 1400 km² (540 mi²). Table 1 describes the area, listing the HUC11 and HUC14 codes, watershed name, and the size. Some subwatersheds straddle the Indiana/Illinois or Indiana/Michigan state line, and are only partial drainage basins on the Indiana side. Figure 4 shows the distribution of the watersheds in the CNPCPA by area.

Figure 3. Location of the 11- and 14-digit hydrologic units located within the Coastal Nonpoint Pollution Control Plan Area (CNPCPA).



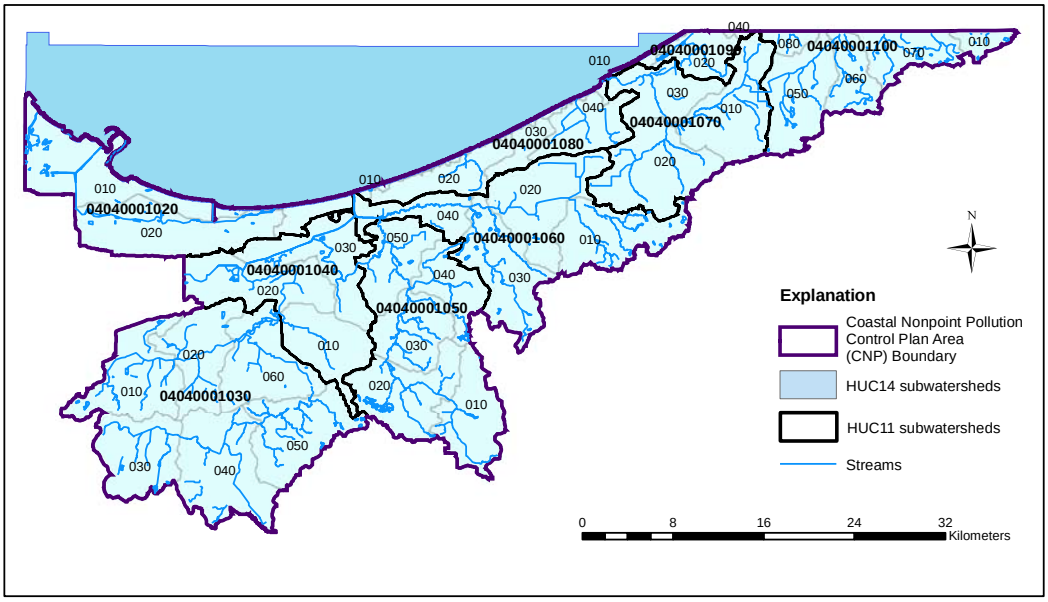


Table 1. HUC11 and HUC14 subwatershed codes, names, and sizes for the CNPCPA.

HUC11	HUC14	HUC14 Name	Acres	Area (Km^2)	Area (Mi^2)
04040001020	04040001020010	Lake Michigan Shoreline-Ind Harbor Canal	19786.9	80.1	30.9
	04040001020020	Grand Calumet River-Gary	16199.8	65.6	25.3
04040001030	04040001030010	Turkey Creek-Headwaters (Lake)	13535.9	54.8	21.1
	04040001030020	Turkey Creek-Merrillville	10900.8	44.1	17.0
	04040001030030	Main Beaver Dam Ditch-Headwaters	11668.1	47.2	18.2
	04040001030040	Main Beaver Dam Ditch-Niles Ditch	16802.2	68.0	26.3
	04040001030050	Deep River-Deer Creek	13647.6	55.2	21.3
	04040001030060	Deep River-Lake George Dam	12879.1	52.1	20.1
04040001040	04040001040010	Duck Creek (Lake)	10085.8	40.8	15.8
	04040001040020	Deep River-Little Calumet River	12536.3	50.7	19.6
	04040001040030	Burns Ditch-Willow Creek	12519.8	50.7	19.6
04040001050	04040001050010	Salt Creek-Sagers Lake/Valparaiso	10556.0	42.7	16.5
	04040001050020	Salt Creek-Clark Ditch	12739.2	51.6	19.9
	04040001050030	Salt Creek-Pepper Creek	9291.7	37.6	14.5
	04040001050040	Damon Run	7646.0	30.9	11.9
	04040001050050	Salt Creek-Squirrel Creek	9337.3	37.8	14.6
04040001060	04040001060010	Little Calumet River-Reynolds Creek	12771.2	51.7	20.0
	04040001060020	Little Calumet River-Kemper Ditch	14444.8	58.5	22.6
	04040001060030	Little Calumet River-Sand/Coffee Creeks	13792.2	55.8	21.6
	04040001060040	Little Calumet River-Burns Ditch Outlet	6853.5	27.7	10.7
04040001070	04040001070010	East Branch Trail Creek	13950.1	56.5	21.8
	04040001070020	West Branch Trail Creek	15349.2	62.1	24.0
	04040001070030	Trail Creek-Otter Creek	8599.2	34.8	13.4
04040001080	04040001080010	Lake Michigan Shoreline-Dunes	2160.9	8.7	3.4
	04040001080020	Dunes Creek	7407.1	30.0	11.6
	04040001080030	Beverly Shores Tributary	3091.8	12.5	4.8
	04040001080040	Kintzele Ditch	8118.1	32.9	12.7
04040001090	04040001090010	Lake Michigan Shoreline-LaPorte	930.0	3.8	1.5
	04040001090020	White Ditch	5548.9	22.5	8.7
	04040001090040	New Buffalo Tributary (Michigan)	345.8	1.4	0.5
04040001100	04040001100010	Dowling Creek	2340.0	9.5	3.7
	04040001100050	Galena River-Headwaters	11749.9	47.6	18.4
	04040001100060	Galena River-Hog Lake Trib	6136.2	24.8	9.6
	04040001100070	Spring Creek (LaPorte)	7498.0	30.4	11.7
	04040001100080	South Branch Galien River-Blood Run	1888.0	7.6	2.9
			TOTAL	1388.5	536.1
			AVERAGE	39.7	15.3

HUC11	HUC11 Name	Acres	Area (Km^2)	Area (Mi^2)
04040001020	Grand Calumet River	35971.3	145.63	56.23
04040001030	Deep River	79399.9	321.46	124.11
04040001040	Burns Ditch	35127.0	142.21	54.91
04040001050	Salt Creek	49549.1	200.60	77.45
04040001060	Little Calumet River	47841.3	193.69	74.78
04040001070	Trail Creek	37882.4	153.37	59.22
04040001080	Dunes Creek	20769.1	84.09	32.47
04040001090	Lake Michigan Shoreline	6821.9	27.62	10.66
04040001100	Galena River	29602.9	119.85	46.27
		TOTAL	1388.5	536.1
		AVERAGE	154.3	59.6

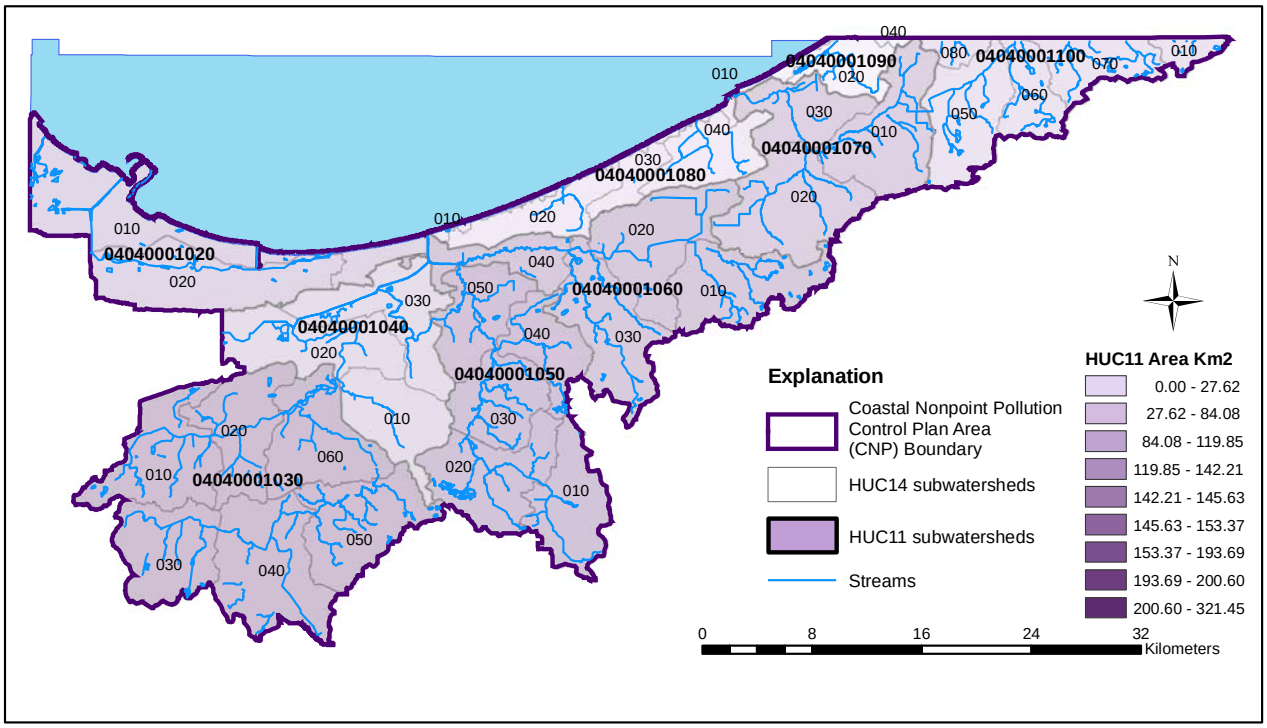


Figure 4. This figure shows the spatial distribution of HUC11 subwatersheds by area. Some of the largest drainage basins are on the southern part of the basin, in the headwater tributaries of the larger streams.

The major waterbodies in the basin are described in Table 2. A map illustrating the sampling sites in the CNPCPA is provided in Figure 5. Water quality data for the 2004 sites are provided in the Appendices. Data are listed by data-collection agency, and sorted for each stream name and site location. Each agency analyzes for different constituents, which are listed in each table. The data are listed in the following order:

- IDEM (AIMS) laboratory analyses
- IDEM (AIMS) field monitoring results
- USGS monitoring data
- ECTF (*E. coli*) monitoring data
- IDNR monitoring data

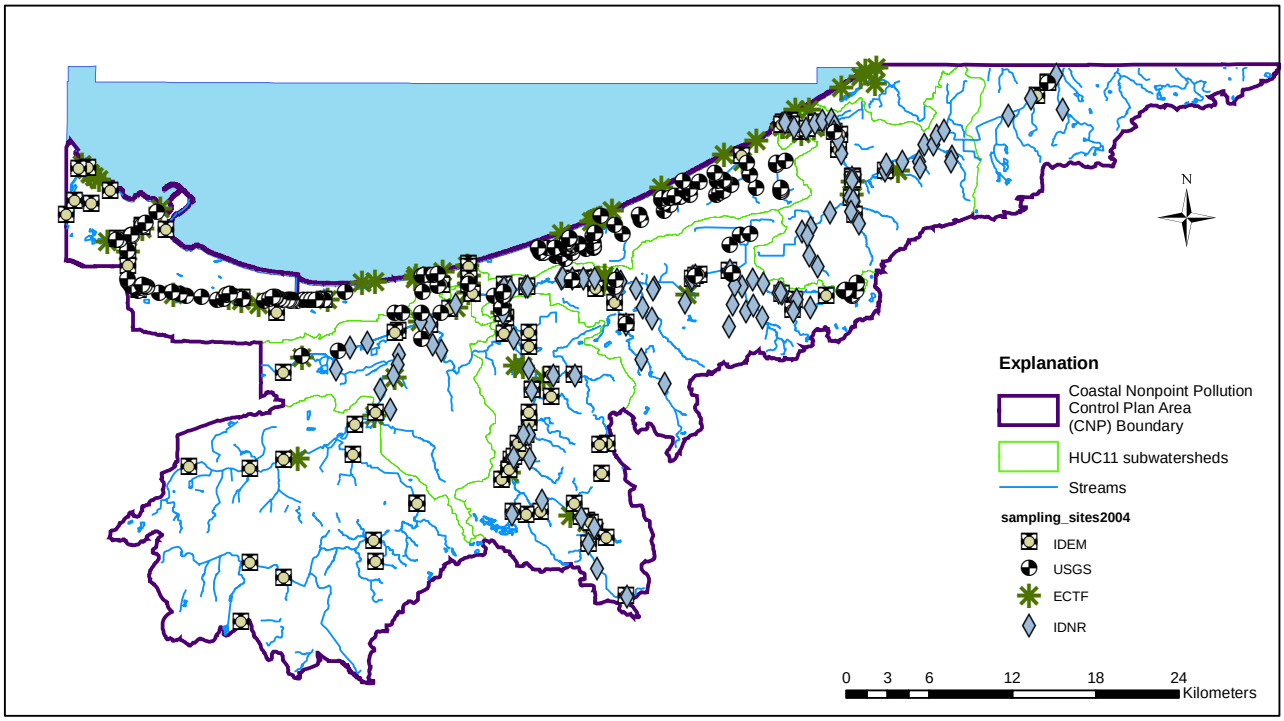
Table 2. Name and length of large and small streams (including many unnamed tributaries) in the CNPCPA, sorted by HUC14 subwatershed. HUC11 code is noted in bold type within the HUC14 code.

HUC14 Code	HUC Name	Stream name	Stream length (Km)
04040001020010	Lake Michigan Shoreline-Ind Harbor Canal	Indiana Harbor Canal	2.33
		Indiana Harbor Slip	1.09
		Lake Michigan	0.22
		Unnamed Water Features	58.57
04040001020020	Grand Calumet River-Gary	Calumet Lagoon	4.31
		Grand Calumet River	20.95
		Unnamed Water Features	8.83
04040001030010	Turkey Creek-Headwaters (Lake)	Bingo Lake	0.85
		Golf Lake	2.21
		Kaiser Ditch	1.29
		Turkey Creek	11.19
		Turkey Creek Branch	1.58
		Turkey Creek Stream	1.88
		Unnamed Water Features	16.99
04040001030020	Turkey Creek-Merrillville	Deep River	1.89
		Deep River Branch	0.68
		Turkey Creek	9.70
		Turkey Creek Branch	7.87
		Unnamed Water Features	8.13
04040001030030	Main Beaver Dam Ditch-Headwaters	Fancher Lake	0.71
		Hermits Lake	2.30
		Lake Seven	0.98
		Main Beaver Dam Ditch	11.11
		Unnamed Water Features	17.52
04040001030040	Main Beaver Dam Ditch-Niles Ditch	Miles Ditch	5.42
		Niles Ditch	4.50
		Unnamed Water Features	13.70
04040001030050	Deep River-Deer Creek	Deep River	4.30
		Deer Creek	5.84
		Unnamed Water Features	28.82
04040001030060	Deep River-Lake George Dam	Deep River	36.93
		Lake George	15.29
		Turkey Creek	0.59
		Unnamed Water Features	3.88
04040001040010	Duck Creek (Lake)	Duck Creek	6.38
		Peregrine Ditch	2.82
		Unnamed Water Features	0.37
04040001040020	Deep River-Little Calumet River	Burns Ditch	9.01
		Deep Creek	3.51
		Little Calumet River	13.62
		Unnamed Water Features	9.51
04040001040030	Burns Ditch-Willow Creek	Burns Ditch	0.27
		Lake Minnehaha	1.23
		Little Calumet River	2.90
		Unnamed Water Features	13.98
		Willow Creek	12.37

HUC14 Code	HUC Name	Stream name	Stream length (Km)
04040001050010	Salt Creek-Sagers Lake/Valparaiso	Block Ditch	1.67
		Bulls-Eye Lake	0.39
		Sagers Lake	2.32
		Unnamed Water Features	3.53
04040001050020	Salt Creek-Clark Ditch	Beauty Creek	1.47
		Clark Ditch	4.69
		Salt Creek	0.85
		Unnamed Water Features	29.06
04040001050030	Salt Creek-Pepper Creek	Butternut Spring	1.36
		Pepper Creek	1.34
		Salt Creek	37.79
		Unnamed Water Features	21.73
04040001050040	Damon Run	Damon Run	6.79
		Lamporte Ditch	2.83
		Loomis Lake	3.64
		Spectacle Lake	0.99
		Swanson Ditch	3.55
		Unnamed Water Features	6.78
04040001050050	Salt Creek-Squirrel Creek	Squirrel Creek	1.61
		Unnamed Water Features	12.54
		Willow Creek	0.83
04040001060010	Little Calumet River-Reynolds Creek	Little Calumet River	12.82
		Reynolds Creek	14.03
		Unnamed Water Features	11.61
04040001060020	Little Calumet River-Kemper Ditch	Carver Ditch	5.05
		Kemper Ditch	5.05
		Rice Lake	1.93
		Stream	0.04
		Unnamed Water Features	3.66
04040001060030	Little Calumet River-Sand/Coffee Creeks	Billington Lake	0.99
		Carlson Pond	1.52
		Chestnut Lakes	1.01
		Coffee Creek	16.64
		Johnson Ditch	1.56
		Long Pond	0.70
		Morgan Lake	0.91
		O Conner Ditch	2.37
		Sand Creek	9.97
		Schneider Lake	2.05
		Shooter Ditch	1.98
		Unnamed Water Features	5.78
04040001060040	Little Calumet River-Burns Ditch Outlet	Burns Ditch	7.87
		Little Calumet River	28.65
		Unnamed Water Features	3.07

HUC14 Code	HUC Name	Stream name	Stream length (Km)
04040001070010	East Branch Trail Creek	Bosserman Creek	3.55
		Branch Brown Ditch	2.94
		Bull Ditch	3.13
		Dingler Lake	1.10
		East Branch	6.28
		Gropp Ditch	1.16
		Moon Ditch	4.38
		Stream	2.06
		Trail Creek E Branch	2.90
		Unnamed Water Features	9.42
		West Arm	1.72
04040001070020	West Branch Trail Creek	Branch Trail Creek	3.51
		Keiffer Ditch	3.03
		Lake	0.59
		Norris Ditch	5.38
		Stream	0.28
		Trail Creek W Branch	1.25
		Unnamed Water Features	1.09
		Waterford Creek	5.81
		West Branch Trail Creek	3.80
		Wolf Run	4.85
04040001070030	Trail Creek-Otter Creek	Beck Ditch	2.20
		Beck Ditch North Arm	0.60
		Beck Ditch South Arm	0.74
		Otter Creek	3.05
		South	0.52
		Trail Creek	8.79
		Unnamed Water Features	2.63
04040001080010	Lake Michigan Shoreline-Dunes	Lake Michigan	1.10
		Unnamed Water Features	16.17
04040001080020	Dunes Creek	Dunes Creek	5.26
04040001080030	Beverly Shores Tributary	Unnamed Water Features	2.87
04040001080040	Kintzele Ditch	Brown Ditch	3.84
		Kintzele Ditch	9.46
		South Lake	0.61
		Streeble Arm	0.62
		Unnamed Water Features	3.07
04040001090010	Lake Michigan Shoreline-LaPorte	Lake Michigan	5.86
04040001090020	White Ditch	Bock Arm	0.67
		Brown Ditch	0.92
		Kimball Ditch	0.97
		Lubke Arm	4.65
		Unnamed Water Features	6.36
		White Arm	1.39
		White Creek	1.71
		White Ditch	3.83

HUC14 Code	HUC Name	Stream name	Stream length (Km)
04040001100010	Dowling Creek	Dowling Creek	1.19
04040001100050	Galena River-Headwaters	Galena River	6.94
04040001100060	Galena River-Hog Lake Trib	Unnamed Water Features	51.28
		Wilhelm Road	0.90
04040001100070	Spring Creek (LaPorte)	Spring Creek	1.53
04040001100080	South Branch Galien River-Blood Run	Unnamed Water Features	33.43



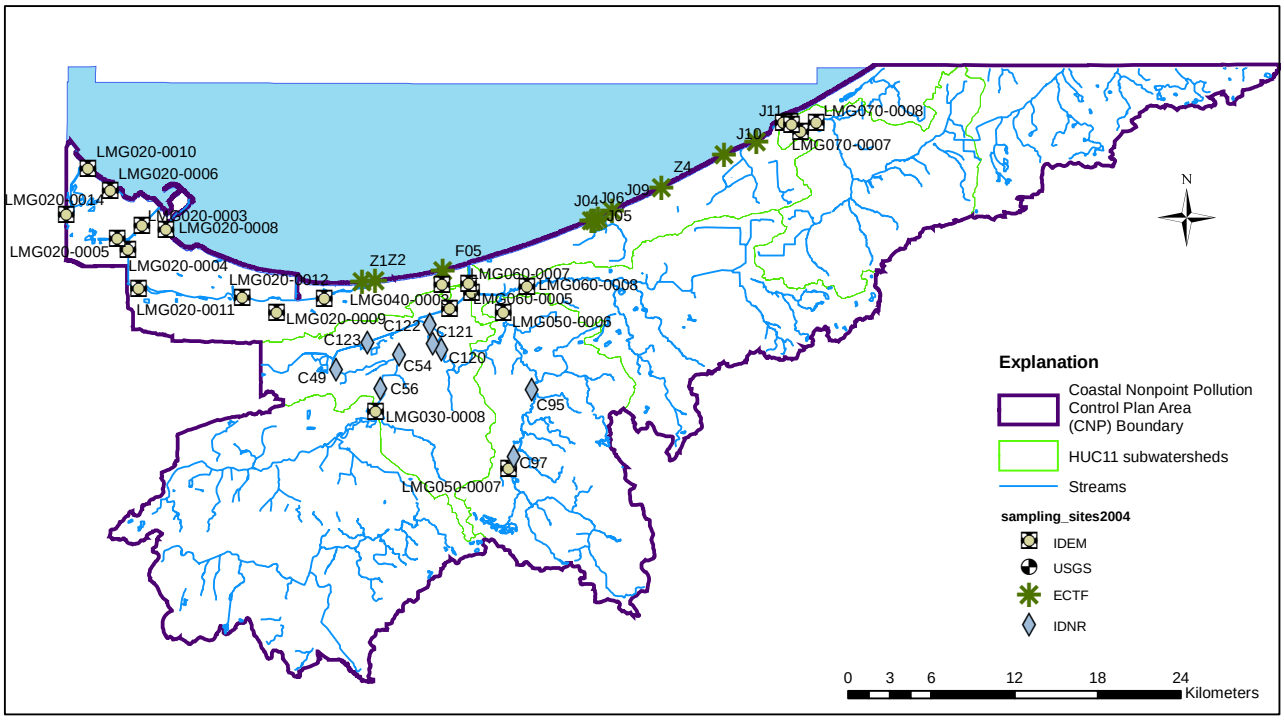


Figure 5. The top map shows all sites from IDEM, USGS, ECTF, and IDNR with recent or historical surface-water quality monitoring data for the CNPCPA. The bottom map shows the sites active in 2004.

For the entire period of record, there are 456 data-collection sites in the CNPCPA with tabulated data for surface-water quality analyses. There were forty-three (43) sites where data were collected in 2004. Most of the data in the basin were collected by IDEM at 24 sites, with the other agencies (except USGS) monitoring a similar number of sites: the ECTF (10 sites), and IDNR (9 sites).

Data gaps in headwater tributary streams

Historically, there have been no samples collected at five of the HUC14 watersheds in the basin. One of the watersheds is intact (does not straddle a political boundary and lies fully within Indiana) and quite large; HUC14 04040001030010 is the 55 km^2 headwaters drainage for Turkey Creek. A lack of monitoring in these areas indicates a gap in our understanding of the hydrologic system in this region.

Table 3. This table lists the HUC14 subwatersheds in the CNPCPA that have had no historical surface-water monitoring activities by the agencies studied for this report.

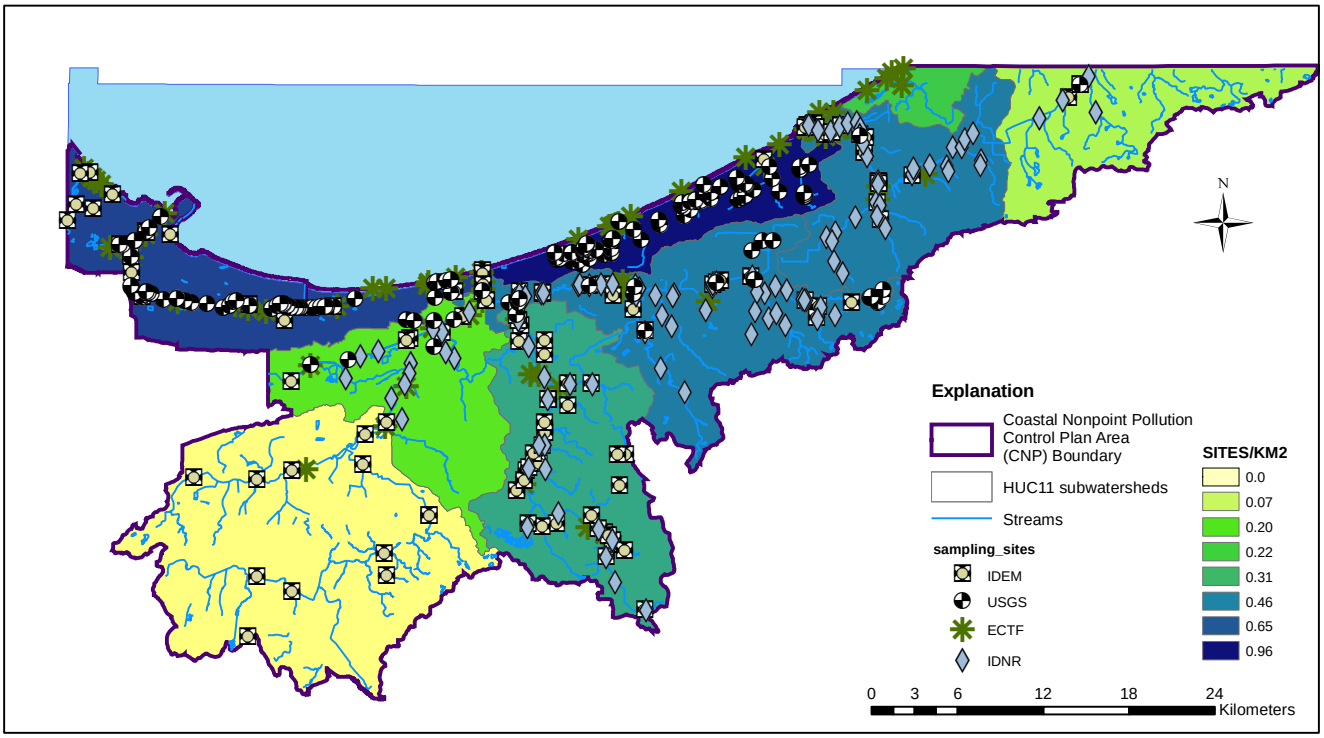
HUC14 Code	HUC14 Subwatershed Name
04040001030010	Turkey Creek-Headwaters (Lake)
04040001090010	Lake Michigan Shoreline (LaPorte)
04040001100010	Dowling Creek
04040001100070	Spring Creek (LaPorte)
04040001100080	South Branch Galien River-Blood Run

Table 4 shows that the Dunes Creek (04040001080), Grand Calumet (04040001020), and Trail Creek 9 (04040001070) subwatersheds have historically undergone the most monitoring, whereas the Deep River ((04040001030) and Galena River (04040001100) subwatersheds have historically had very few monitoring sites per river mile in the study area. Maps showing density of monitoring stations per area (Figure 6, top) and per stream mile (Figure 6, bottom) demonstrate the variability in monitoring throughout the Great Lakes watersheds. Many of the monitoring sites in the upper reaches of the subwatersheds are actually IDEM field sites (Figure 7) that do not have long-term water-quality data available for trend analyses.

Table 4. Distribution of streams and monitoring sites in each 14-digit hydrologic unit in the CNPCPA.

HUC_14	Subwatershed Name	Streams (km)	HUC14 Area (Km2)	Number of Monitoring Sites	Sites/km^2	Sites/km
04040001020010	Lake Michigan Shoreline-Ind Harbor Canal	62.22	80.07	48	0.60	0.77
04040001020020	Grand Calumet River-Gary	34.09	65.56	46	0.70	1.35
04040001030010	Turkey Creek-Headwaters (Lake)	35.99	65.56	1	0.02	0.03
04040001030020	Turkey Creek-Merrillville	28.27	44.11	3	0.07	0.11
04040001030030	Main Beaver Dam Ditch-Headwaters	32.62	47.22	2	0.04	0.06
04040001030040	Main Beaver Dam Ditch-Niles Ditch	23.62	68.00	1	0.01	0.04
04040001030050	Deep River-Deer Creek	38.97	55.23	2	0.04	0.05
04040001030060	Deep River-Lake George Dam	56.70	52.12	6	0.12	0.11
04040001040010	Duck Creek (Lake)	9.58	40.82	1	0.02	0.10
04040001040020	Deep River-Little Calumet River	35.66	50.73	9	0.18	0.25
04040001040030	Burns Ditch-Willow Creek	30.75	50.67	19	0.38	0.62
04040001050010	Salt Creek-Sagers Lake/Valparaiso	7.91	42.72	14	0.33	1.77
04040001050020	Salt Creek-Clark Ditch	36.07	51.55	13	0.25	0.36
04040001050030	Salt Creek-Pepper Creek	62.22	37.60	15	0.40	0.24
04040001050040	Damon Run	24.58	30.94	7	0.23	0.28
04040001050050	Salt Creek-Squirrel Creek	14.98	37.79	14	0.37	0.93
04040001060010	Little Calumet River-Reynolds Creek	38.45	51.68	21	0.41	0.55
04040001060020	Little Calumet River-Kemper Ditch	15.72	58.46	17	0.29	1.08
04040001060030	Little Calumet River-Sand/Coffee Creeks	45.49	55.81	15	0.27	0.33
04040001060040	Little Calumet River-Burns Ditch Outlet	39.59	27.74	37	1.33	0.93
04040001070010	East Branch Trail Creek	38.64	56.45	13	0.23	0.34
04040001070020	West Branch Trail Creek	29.59	62.12	22	0.35	0.74
04040001070030	Trail Creek-Otter Creek	18.53	34.80	35	1.01	1.89
04040001080010	Lake Michigan Shoreline-Dunes	17.28	5.08	8	1.57	0.46
04040001080020	Dunes Creek	7.68	29.98	41	1.37	5.34
04040001080030	Beverly Shores Tributary	0.45	12.51	12	0.96	26.90
04040001080040	Kintzele Ditch	17.60	32.85	20	0.61	1.14
04040001090010	Lake Michigan Shoreline-LaPorte	5.86	32.85	4	0.12	0.68
04040001090020	White Ditch	20.49	22.46	2	0.09	0.10
04040001100010	Dowling Creek	1.19	9.47	0	0.00	0.00
04040001100050	Galena River-Headwaters	33.26	47.55	6	0.13	0.18
04040001100060	Galena River-Hog Lake Trib	25.88	24.83	2	0.08	0.08
04040001100070	Spring Creek (LaPorte)	29.91	24.83	0	0.00	0.00
04040001100080	South Branch Galien R-Blood Run	5.05	30.34	0	0.00	0.00

HUC_11	Subwatershed Name	Streams (km)	HUC11 Area (Km2)	Number of Monitoring Sites	Sites/km2	Sites/km
04040001020	Grand Calumet River	96.31	145.63	94	0.65	0.98
04040001030	Deep River	216.16	321.46	15	0.05	0.07
04040001040	Burns Ditch	75.98	142.21	29	0.20	0.38
04040001050	Salt Creek	145.76	200.60	63	0.31	0.43
04040001060	Little Calumet River	139.26	193.69	90	0.46	0.65
04040001070	Trail Creek	86.76	153.37	70	0.46	0.81
04040001080	Dunes Creek	43.00	84.09	81	0.96	1.88
04040001090	Lake Michigan Shoreline	26.35	27.62	6	0.22	0.23
04040001100	Galena River	94.09	119.85	8	0.07	0.09



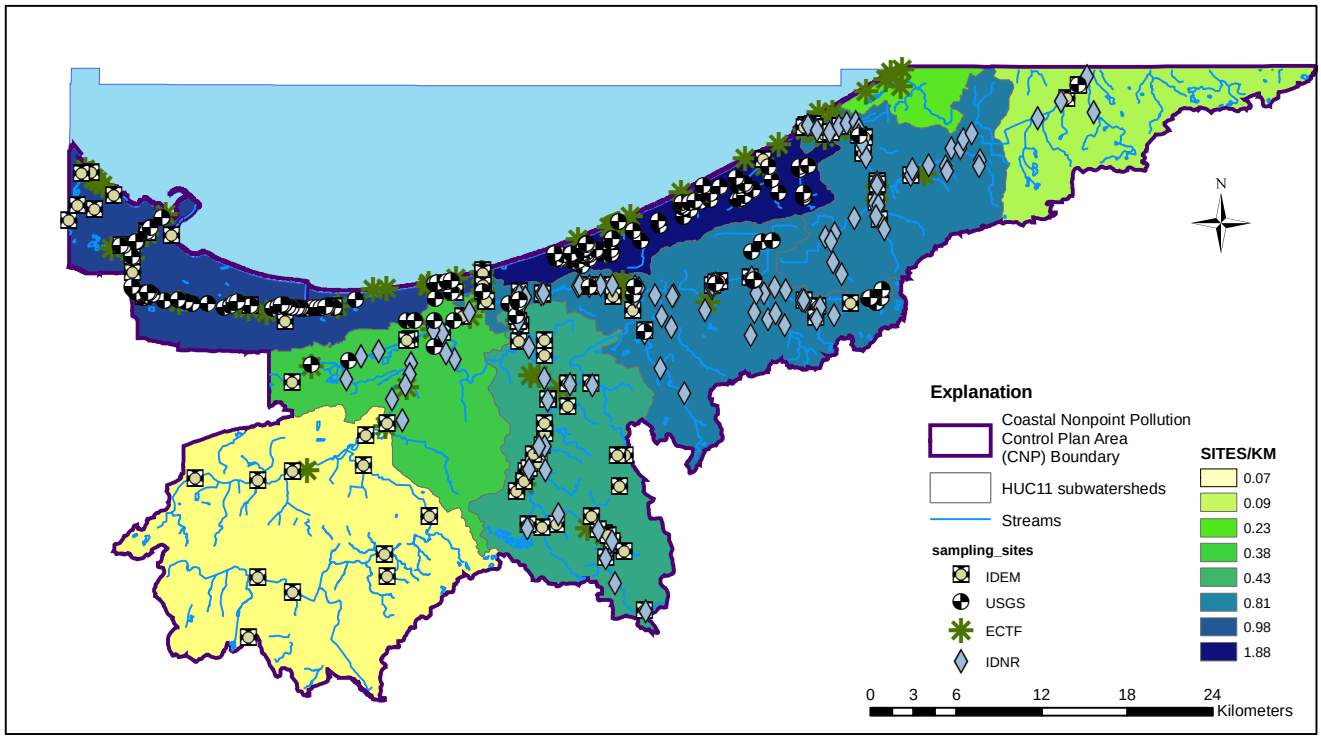


Figure 6. The above maps show the density of historical data-collection sites throughout the watershed. The upper map shows the density of sites per square kilometer of each HUC11 subwatershed, whereas the lower map shows the coverage per stream length (in kilometers). The monitoring focus has clearly been near Lake Michigan. The headwater tributary catchments have been a less intense focus of monitoring activities.

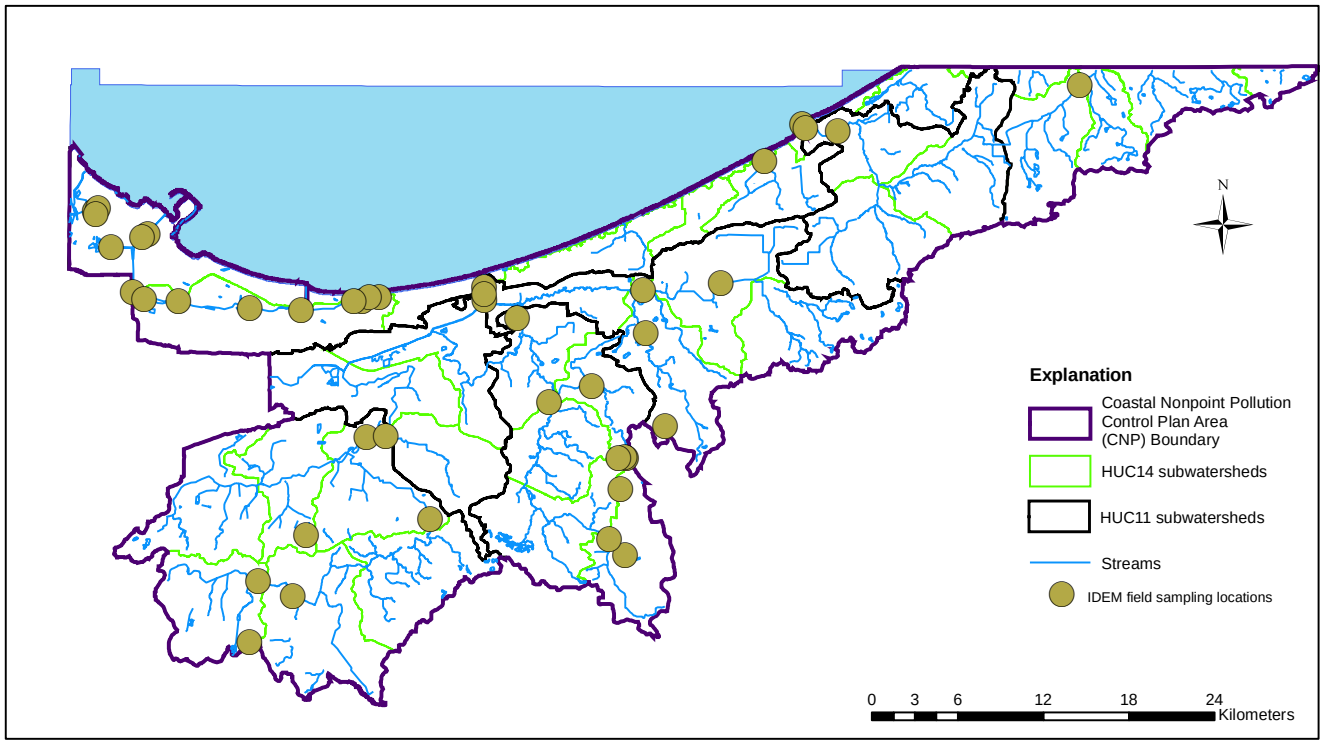


Figure 7. The points on the map above show stations monitored by IDEM for various programmatic purposes, such as fish tissue sampling, microinvertebrate counts, sediment sampling, and other field parameters. These stations are *not* continuously monitored. Note the number of sites in the tributary streams; this map emphasizes the scarcity of high-quality continuous monitoring in the headwater catchments of the CNPCPA.

Sampling site locations and period of record

The following pages outline the sites from which surface water quality samples have been taken over the period of record. Table 5 shows the agency that established the site, the location of the site (description and UTM, NAD83, Zone 16 geographic coordinate), and the agency's site number. The sites are sorted by HUC14 subwatershed. Following the list of historical sites is a table (Table 6) showing the period of record of the sites active in 2004. Appendix A contains a table showing the period of record for all 456 sites in the CNPCPA. Most of the IDEM sites are fixed-station sites, which are continuously active for their period of record. The ECTF sites have continuous data for the bathing season (May-Sept), and the USGS and IDNR sites are program-specific and have spotty temporal data collection histories.

GIS shapefile of sampling sites

An ESRI GIS shapefile format data layer accompanies this report. It is a point shapefile showing the locations for the collection of historical sampling sites for which water-quality data are available. The associated attribute table also lists the station ID, station name, stream monitored, as well as the HUC11, HUC14, and location information.

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001020010	Lake Michigan Shoreline-Ind Harbor Canal	ECTF	A08	Grand Calumet River - Grand Cal_Columbus	460767.69	4609728.00
		ECTF	A09	Ship Canal - Ship Canal Sys_Canal	459291.91	4610458.50
		ECTF	A10/110	Ship Canal - Ship Canal Sys_Dickey	461807.19	4611384.50
		ECTF	A11/111	Ship Canal - Ship Canal Sys_Outfall	463106.19	4612838.00
		ECTF	A13/113	Hammond Marina East - Hammond Marina East	457794.86	4615672.02
		ECTF	A14/114	Whiting Park - Whiting Park	458678.94	4614900.50
		ECTF	F04/225	Burns Harbor - Burns Harbor at Mouth	481493.91	4608025.50
		ECTF	F05/226	West Beach - West Beach	483453.47	4608367.50
		ECTF	Z1	Lake St Beach - Lake St Beach	477633.21	4607570.80
		ECTF	Z11	Hammond Marina West - Hammond Marina West	457478.21	4616009.99
		ECTF	Z14	Wells Street - Wells Street	481453.70	4607810.00
		ECTF	Z15	Whihala East End	458082.04	4615371.00
		ECTF	Z16	Whihala West End	458056.87	4615368.56
		ECTF	Z17	Whihala Pocket Beach - Whihala Pocket Beach	458361.00	4615170.00
		ECTF	Z2	Marquette Park Beach - Marquette Park Beach	478571.24	4607632.23
		IDEM	LMG020-0003	Indiana Harbor Canal - Bridge on Dickey Rd, E Chicago	461768.31	4611605.09
		IDEM	LMG020-0004	Indiana Harbor Canal - Bridge on Columbus Dr, E Chicago	460764.17	4609852.60
		IDEM	LMG020-0005	Indiana Harbor Canal - Bridge on Indianapolis Blvd, E Chicago	459982.07	4610658.77
		IDEM	LMG020-0006	Lake Michigan - Raw Water, Whiting Waterworks	459469.73	4614146.63
		IDEM	LMG020-0008	Lake Michigan - Raw Water, E Chicago Waterworks	463501.56	4611318.50
		IDEM	LMG020-0010	Lake Michigan - Raw Water, Hammond Waterworks	457883.65	4615728.66
		IDEM	LMG020-0013	Lake Michigan - Raw Water, Northwest Indiana Water Company, Ogden Dunes Treatment Plant	483384.08	4607389.99
		IDEM	LMG020-0014	Wolf Lake - Culvert at State Line Rd at End of 129th St in Hammond	456314.44	4612376.39
		IDEM	LMG020-0016	Indiana Harbor Canal - Bridge on SR 312, Park on Side Street, E of Water Tower	460766.60	4608729.07
		IDEM	LMG020-0020	Indiana Harbor Canal - 129th St Bridge (Dickey Road)	461814.24	4611543.16
		IDEM	LMG020-0021	Wolf Lake Channel - SR 12/20, @ Am. Maize Co	457212.93	4615670.95
		IDEM	LMG020-0043	George (Hamm) -	458099.85	4613167.60
		IDEM	LMG020-0044	Wolf -	456922.02	4613421.30
		USGS	04092700	No_Stream - Indust. Ca at 151st St. Br. at E. Chicago Ind.	460775.35	4607662.87
		USGS	04092750	Indiana Harbor Canal - Indiana Harbor Canal at East Chicago, in	460978.25	4610930.85

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001020010	Lake Michigan Shoreline-Ind Harbor Canal	USGS	413620087142502	Ditch - Us12 Ditch 0.75 Mi West of Spencer St at Gary, IN	479976.68	4605412.61
		USGS	413621087140901	Ditch - Us12 Ditch Culvert Ds Spencer St at Gary, IN	480543.78	4605398.72
		USGS	413650087125800	Long Lake - W End Long L at Gary Ind	481994.40	4606930.75
		USGS	413704087121000	Long Lake - E. End Long Lake, Ogden	483106.30	4607359.80
		USGS	413716087281600	Indiana Harbor Canal - in Harbor Canal @151 St. @ E Chicago, IN	460753.05	4607817.19
		USGS	413725087130000	West Beach Pond - W. Bch. Pond #5 Inter-Dunal, Gary, Ind.	481950.82	4608010.24
		USGS	413727087123801	West Beach Pond - W. Bch. Inter-Dunal Pond #3 Ogden	482460.05	4608070.66
		USGS	413727087125301	West Beach Pond - W. Bch Inter-Dunal Pond #4 Gary, Ind.	482112.96	4608071.51
		USGS	413730087122400	West Beach Pond - W. Bch. Inter-Dunal Pond #2 Gary, Ind.	482784.23	4608162.39
		USGS	413732087121101	West Beach Pond - W. Bch. Inter-Dunal Pond 1 Ogden, Ind.	483085.19	4608223.36
		USGS	413822087281601	Indiana Harbor Canal - in Hrb Cnl at Columbus Dr at E Chi in	460764.17	4609852.60
		USGS	413848087284201	Lake George Canal - Lake George Canal Nr Indnpls Blvd at E Chicago in	460167.13	4610657.74
		USGS	413848087285201	Lake George Canal - Lk George Cnl at Indpls Blvd at E Chi in	459935.81	4610659.02
		USGS	413857087280301	Indiana Harbor Canal - in Hrb Cnl Adj To Canal St at E Chi IN	461070.77	4610930.34
		USGS	413858087280501	Indiana Harbor Canal - Indiana Harbor at Ltv Outfall 001 at E Chicago in	461024.68	4610961.43
		USGS	413919087273201	Indiana Harbor Canal - in Hrb Cnl at Dickey Rd at E Chi in	461791.44	4611604.96
		USGS	413928087272100	Indiana Harbor Canal - Ind.Harbor Canal @ Constriction @ E.Chicago,IN	462047.33	4611881.17
		USGS	413952087264701	Indiana Harbor Canal - in Hrb Cnl at Ltv Outfall 007 at E Chi IN	462837.50	4612617.20
04040001020020	Grand Calumet River-Gary	ECTF	A01/103a	Grand Calumet River - Grand Cal_Headwater	475163.69	4606367.50
		ECTF	A02/102	Grand Calumet River - Grand Calumet Ej&E Rr Br	470198.47	4605996.50
		ECTF	A03/103	Grand Calumet River - Grand Calumet Outfall	468936.25	4606233.00
		ECTF	A04/104	Grand Calumet River - Grand Calumet Clark St.	468023.31	4606511.50
		ECTF	A05/105	Grand Calumet River - Grand Cal_Cline	464017.25	4606675.00
		IDEM	LMG020-0001	Grand Calumet River - at US Steel	474887.20	4606335.27
		IDEM	LMG020-0009	Lake Michigan - Raw Water, Northwest Indiana Water Company (Gary), Borman Pk Treatment Plant	471457.75	4605361.20
		IDEM	LMG020-0011	Grand Calumet River - Bridge on Kennedy Ave, E Chicago	461535.72	4607041.95

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001020020	Grand Calumet River-Gary	IDEM	LMG020-0012	Grand Calumet River - Bridge St Bridge Near US Steel, Gary	469008.52	4606419.89
		USGS	04092677	Grand Calumet River - Grand Calumet River at Industrial Hwy at Gary, in	467202.62	4606304.54
		USGS	413626087211101	Grand Calumet River - E Br Grd Calumet R at Buchanan St at Gary, IN	470581.64	4606228.24
		USGS	413627087192801	Grand Calumet River - E Br Grd Calumet R at Rr Bridge at USX at Gary, IN	472965.78	4606249.72
		USGS	413627087194700	Grand Calumet River - Grand Calumet R. @ Va. St. @ Gary, IN	472526.01	4606251.39
		USGS	413628087191000	US Steel Outfall - US.Steel Outfall #5 @ Gary, IN	473382.52	4606279.01
		USGS	413628087194500	US Steel Outfall - US.Steel Outfall #6 @ Gary, IN	472572.42	4606282.05
		USGS	413628087195200	US Steel Outfall - US.Steel Outfall #7 @ Gary, IN	472410.40	4606282.67
		USGS	413628087195800	US Steel Outfall - US.Steel Outfall #8 @ Gary, IN	472271.52	4606283.20
		USGS	413628087201401	Grand Calumet River - E Br Grd Calumet R at Broadway St at Gary IN	471901.19	4606284.64
		USGS	413629087185600	US Steel Outfall - US.Steel Outfall #4 @ Gary, IN	473706.67	4606308.65
		USGS	413630087180401	Grand Calumet River - E Br Grd Calumet R at Hdwtrs USX at Gary, IN	474910.35	4606335.19
		USGS	413630087184300	US Steel Outfall - US.Steel Outfall #3 @ Gary, IN	474007.67	4606338.40
		USGS	413631087182600	US Steel Outfall - US.Steel Outfall #1 @ Gary, IN	474401.26	4606367.82
		USGS	413631087183000	US Steel Outfall - US.Steel Outfall #2 @ Gary, IN	474308.67	4606368.16
		USGS	413632087202400	US Steel Outfall - US.Steel Outfall #9 @ Gary, IN	471670.22	4606408.91
		USGS	413632087205500	US Steel Outfall - US.Steel Outfall #12 @ Gary, IN	470952.72	4606411.77
		USGS	413632087221601	Grand Calumet River - E Br Grd Calumet R Nr Bridge St at Gary, IN	469077.95	4606419.59
		USGS	413632087221900	Grand Calumet River - S-13 Grand Calumet R., Bridge St at Gary, IN	469031.66	4606419.79
		USGS	413632087231800	No_Stream - Gary Stp @ Gary, IN	467642.94	4606425.91
		USGS	413635087203600	US Steel Outfall - US.Steel Outfall #10 @ Gary, IN	471392.85	4606502.53
		USGS	413636087203600	US Steel Outfall - US.Steel Outfall #10a @ Gary, IN	471392.97	4606533.36
		USGS	413636087204500	US Steel Outfall - US.Steel Outfall #11 @ Gary, IN	471184.67	4606534.20
		USGS	413636087242601	Grand Calumet River - E Br Grd Calumet R Nr Gary Airpt at Gary, IN	466069.65	4606556.52

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001020020	Grand Calumet River-Gary	USGS	413637087251301	Grand Calumet River - E Br Grd Calumet R Btwn Cline & Industrial at Gary	464981.99	4606592.57
		USGS	413641087230801	Grand Calumet River - E Br Grd Calumet R Btwn Indstrial & Bridge at Gary	467875.64	4606702.42
		USGS	413642087225700	US Steel Outfall - US.Steel Outfall #13 @ Gary, IN	468130.36	4606732.13
		USGS	413643087253400	Vulcan Materials Outfall - Vulcan Materials Outfall @ E.Chicago, IN	464496.86	4606779.99
		USGS	413643087263801	Grand Calumet River - E Br Grd Calumet R Btwn Kennedy & Cline at Gary, IN	463015.63	4606787.46
		USGS	413647087255700	Grand Calumet River - Grand Calumet R. @ Cline Ave. @ Gary, IN	463965.16	4606906.00
		USGS	413649087165901	Grand Calumet River - Grand Calumet R Nr Steel Mill Landfill @ E Gary	476416.72	4606916.04
		USGS	413650087274201	Grand Calumet River - Sw Stage S-17, Grand Cal, Kennedy Av at Hammond in	461535.55	4607011.11
		USGS	413655087273700	Harbison-Walker Outfall - Harbison-Walker Outfall @ Gary, IN	461652.09	4607164.69
		USGS	413658087271500	Dupont Outfall - E.I.Dupont Outfall #1 @ Gary, IN	462161.73	4607254.51
		USGS	413701087272300	Grand Calumet River - Grand Calumet R. Nr Kennedy Ave. @E Chicago, IN	461977.08	4607348.01
		USGS	413701087273400	Dupont Outfall - E.I.Dupont Outfall #3 @ Gary, IN	461722.51	4607349.36
		USGS	413701087280500	USS Lead Outfall - U.S.S. Lead Outfall @ Gary, IN	461005.09	4607353.21
		USGS	413702087273000	Dupont Outfall - E.I.Dupont Outfall #2 @ Gary, IN	461815.24	4607379.70
04040001030010	Turkey Creek-Headwaters (Lake)	IDEM	LMG030-0006	Turkey Cr - N of New Elliot, Pull Over on W Side of St, Narrow Bridge	465131.07	4594348.46
04040001030020	Turkey Creek-Merrillville	ECTF	D06/211	Little Calumet R. - Little Cal E_Outfall	472983.06	4594970.00
		IDEM	LMG030-0007	Turkey Cr - SR 53 Broadway, S of 61st St	471964.23	4594820.43
		IDEM	LMG030-0015	Turkey Cr - SR 55	469535.41	4594174.33
04040001030030	Main Beaver Dam Ditch-Headwaters	IDEM	LMG030-0013	Main Beaver Dam Ditch - SR 55, U/S Crownpoint, IN	469530.26	4587451.42
		IDEM	LMG030-0018	Fancher -	468908.75	4583229.14
04040001030040	Main Beaver Dam Ditch-Niles Ditch	IDEM	LMG030-0012	Main Beaver Dam Ditch - SR 53, D/S Crownpoint, IN	471962.85	4586393.06
04040001030050	Deep River-Deer Creek	IDEM	LMG030-0002	Unnamed Trib of Deep River - Grand Blvd	478606.96	4587521.51
		IDEM	LMG030-0010	Deep River - Grand Blvd Bridge, South of US 30, 2 Miles	478418.13	4589014.11
04040001030060	Deep River-Lake George Dam	ECTF	E01/216	Little Calumet R. - Little Cal W_Clay	478493.31	4597987.00
		IDEM	LMG030-0008	Deep River - D/S of Dam in Festival Park and Lake George, U/S of Gage, Hobart	478609.71	4598225.74
		IDEM	LMG030-0009	Deep River - Deep River County Park, Ped Bridge	481530.28	4591712.51

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001030060	Deep River-Lake George Dam	IDEM	LMG030-0011	Deep River - 61st Ave, W SR 51, South of Hobart	476941.08	4595243.50
		IDEM	LMG030-0014	Deep River - Deep River Co Park	481562.10	4591728.15
		IDEM	LMG030-0019	George (Hobart) -	477103.89	4597384.45
04040001040010	Duck Creek (Lake)	IDNR	C55*	Deep River - Upstream 1/4 Mile From the Southern Ripley Street (51) Crossing	479674.43	4598458.30
04040001040020	Deep River-Little Calumet River	ECTF	E02	Turkey Cr	479995.34	4600744.00
		ECTF	E03	Deep River - Deep River_L.Georgeout	473295.09	4602196.50
		IDEM	LMG040-0004	Little Calumet River - SR 53 Bridge, S of Exit 10 I-80	471935.32	4601085.56
		IDNR	C49*	Deep River - Liverpool Road	475760.89	4601299.26
		IDNR	C54*	Deep River - N. Ripley Street	480299.81	4602362.32
		IDNR	C56*	Deep River - Ridge Road (U.S. 6)	478942.02	4599901.49
		IDNR	C63*	Deep River - From Old Dam Neart the End of 29th Ave. To 1/2 Mile Downstream	480197.21	4601659.17
		IDNR	C64*	Deep River - 1/4 Mile Upstream and 1/4 Downstream From Route 51 South of Riverside Park	479889.23	4600876.60
		USGS	04093200	Little Calumet R. - Little Calumet River at Gary, Ind.	473298.32	4602301.01
04040001040030	Burns Ditch-Willow Creek	ECTF	E04	Deep River - Deep River_St.Rd.51	481805.97	4604772.00
		ECTF	E05	Little Calumet West - Little Cal W_Outfall	484404.88	4605734.50
		ECTF	E06	Little Calumet West - Little Cal W_S.Shore Marina	485306.69	4606817.00
		IDEM	LMG040-0001	Little Calumet River - SR 51	480210.07	4604046.99
		IDEM	LMG040-0003	Burns Ditch - Portage Boat Yard Dock, Portage	483912.48	4605661.78
		IDEM	LMG040-0005	Burns Ditch - SR 51 Bridge, North of I-94, Exit 15	479981.42	4603956.06
		IDEM	LMG040-0006	Willow Cr - US 20	482497.70	4604524.03
		IDNR	C120*	Willow Creek - Central Avenue	483343.65	4602721.01
		IDNR	C121*	Willow Creek - Evergreen Avenue	482711.03	4603122.18
		IDNR	C122*	Willow Creek - U.S. 20	482497.70	4604521.56
		IDNR	C123*	Burns Ditch - Burns Ditch (1.27 Mile Upstream U.S. 51)	478018.13	4603234.90
		IDNR	C50*	Burns Ditch - Burns Ditch (0.9 Mile Upstream Confluence)	484376.08	4605960.52
		IDNR	C51*	Burns Ditch - Downstream From Clay Street Crossing	476791.73	4602865.09
		IDNR	C52*	Burns Ditch - 1/2 Mile Upstream and 1/2mile Downstream From Route 20, Rr Bridge and Mouth of Willow Creek	481810.11	4605002.55
		IDNR	C53*	Willow Creek - Upstream 1/4 Mile From Mouth of Willow Creek and Burns Ditch, then 500 Ft.	481851.71	4604749.42
		USGS	04093500	Burns Ditch - Burns Ditch at Gary, Ind.	475916.36	4602631.01

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001040030	Burns Ditch-Willow Creek	USGS	413538087131301	Little Calumet R. - Little Calumet R-Burns Ditch at US Hwy20 at Portage	481925.74	4603554.01
		USGS	413627087135601	Ditch - Us12 Ditch Culvert US Union St at Gary, IN	481928.06	4605398.19
		USGS	413658087124001	Long Lake - Long Lake East Central Portion at Gary, IN	483314.68	4605407.18
04040001050010	Salt Creek-Sagers Lake/Valparaiso	ECTF	C01	Salt Cr - Salt Creek_US 30	494396.75	4589746.50
		ECTF	C02	Salt Cr - Salt Creek_WWTP	493802.78	4590354.00
		IDEM	LMG050-0011	Salt Cr - First Road Access Point After Spring Fed Wetland - Sager Rd & Approx. Cr 150 S	496618.94	4585079.79
		IDEM	LMG050-0012	Salt Cr - SR 2 & Salt Creek	493925.83	4588824.39
		IDEM	LMG050-0013	Salt Cr - Sagers Lake Outlet & Meridian Rd	494399.79	4589669.60
		IDEM	LMG050-0014	Salt Cr - Access From 1st East-West Road North of US Route 30	494351.78	4589979.87
		IDEM	LMG050-0015	Salt Cr - Valparaiso WWTP	493830.97	4590500.54
		IDEM	LMG050-0039	Sagers Cr - Outfall of Sager's Lake	495197.55	4589239.14
		IDEM	LMG050-0040	Salt Cr - U/S Valparaiso Potw	494084.82	4590319.31
		IDEM	LMG050-0047	Silver -	494876.01	4593834.30
		IDNR	C102*	Salt Creek - Hwy 2 Crossing	493919.88	4588827.60
		IDNR	C103*	Salt Creek - Meridian Rd. Crossing Upstream To Division Rd.	494550.32	4587058.99
		IDNR	C110*	Salt Creek - West St. Crossing Downstream 700 Ft.	494348.71	4589986.91
		IDNR	C117*	Salt Creek - Sager Road	496715.74	4585072.65
04040001050020	Salt Creek-Clark Ditch	ECTF	C03	Salt Cr - Salt Creek_Joliet	492627.88	4590890.00
		ECTF	C04	Salt Cr - Salt Creek_130	488207.13	4593931.50
		IDEM	LMG050-0007	Salt Cr - SR 130 Bridge, Below Stp, Near Valparaiso	488175.85	4594119.72
		IDEM	LMG050-0016	Salt Cr - Joliet Road & Salt Creek	493372.41	4590786.21
		IDEM	LMG050-0017	Beauty Cr - SR 130 & Beauty Creek	492904.53	4591702.55
		IDEM	LMG050-0018	Unnamed Trib - Unnamed Tributary & Cr 250 W	490471.14	4591140.08
		IDEM	LMG050-0019	Clark Ditch - Clark Ditch & Clark Ditch & Joliet Rd	489461.62	4590905.88
		IDEM	LMG050-0020	Lake Louise Outfall - Stream Downstream of Lake Louise & Joliet Rd	488490.99	4591102.57
		IDEM	LMG050-0021	Unnamed Trib - Unnamed Tributary To Salt Creek at Cr 400 N	487655.37	4593450.77
		IDEM	LMG050-0022	Salt Cr - Salt Creek & SR 130, Fixed Station Slc-17	488196.48	4594115.37
		IDNR	C100*	Salt Creek - Joliet Rd. Crossing Upstream 500 Ft.	493403.21	4590725.73
		IDNR	C101*	Salt Creek - 250 West Crossing Upstream 500 Ft.	490615.68	4591883.41
		IDNR	C99*	W. Branch Salt Creek - Joliet Rd./U.S. 30	488443.37	4590909.59

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001050030	Salt Creek-Pepper Creek	IDEM	LMG050-0001	Salt Cr - Cr 500 N	488353.08	4594877.68
		IDEM	LMG050-0009	Salt Cr - 500 N Bridge, E of 450 W, N of Sr130	488536.27	4595075.14
		IDEM	LMG050-0023	Pepper Cr - Pepper Creek & Cr 325 W	489250.93	4595370.09
		IDEM	LMG050-0024	Salt Cr - Salt Creek & 600 N	488861.13	4596030.94
		IDEM	LMG050-0025	Trib of Salt Cr - Cr 600 N, Trib of Salt Cr	489464.87	4596625.22
		IDEM	LMG050-0027	Trib of Salt Cr - Salt Creek Tributary & SR 149	489645.03	4597485.67
		IDEM	LMG050-0028	South Haven Sewer Works, Inc - South Haven Sewer Works, Inc. Effluent	489611.74	4598186.69
		IDEM	LMG050-0029	Trib of Salt Cr - Salt Creek Tributary & Cr 200 W	491258.13	4599370.26
		IDEM	LMG050-0030	Salt Cr - Salt Creek & US Hwy. 6 - Retired Fixed Station Slc-7	489908.57	4599837.39
		IDEM	LMG050-0041	Salt Cr - US 6 (Valparaiso)	489876.39	4599853.16
		IDNR	C105*	Salt Creek - 149 Southern Crossing	489648.33	4596637.43
		IDNR	C95*	Salt Creek - U.S. 6	489875.43	4599833.42
		IDNR	C96*	Pepper Creek - 500 North	489701.68	4594959.89
		IDNR	C97*	Salt Creek - 500 North	488541.79	4595050.46
		IDNR	C98*	Salt Creek - 600 North Crossing Upstream 500 Ft.	489252.93	4596629.83
04040001050040	Damon Run	ECTF	C05	Salt Cr - Salt Creek_Cr200w	490697.44	4600678.50
		IDEM	LMG050-0031	Damon Run - Damon Run & Cr 200 W	491250.56	4600956.32
		IDEM	LMG050-0042	Damon Run - Cr 100 W	492865.92	4600959.78
		IDEM	LMG050-0045	Loomis -	495271.57	4595992.74
		IDEM	LMG050-0046	Spectacle -	494715.27	4595962.29
		IDNR	C118*	Damon Run - 200 West	491419.60	4600919.42
		IDNR	C119*	Damon Run - 900 North	492962.19	4600873.34
04040001050050	Salt Creek-Squirrel Creek	ECTF	C06	Salt Cr - Salt Creek_Robinsrd	488638.88	4601607.00
		ECTF	C07	Squirrel Creek - Squirrel Creek_Robinsrd	489204.34	4601577.00
		ECTF	C08	Salt Cr - Salt Creek_Bormanexp	487729.97	4605410.00
		IDEM	LMG050-0006	Salt Cr - US 20 Bridge, Portage	487800.74	4605345.74
		IDEM	LMG050-0033	Trib of Salt Cr - Salt Creek Tributary and SR 149	489623.68	4602934.96
		IDEM	LMG050-0034	Gustafson Ditch - Gustafson Ditch & SR 149	489615.46	4603976.10
		IDEM	LMG050-0035	Trib of Salt Cr - Salt Creek Tributary & Portage Avenue (East of Portage)	487827.22	4603893.79
		IDEM	LMG050-0036	Salt Cr - Salt Creek & Cr 400 W, Retired USGS Gaging Station	487963.84	4605009.32
		IDEM	LMG050-0037	Salt Cr - Salt Creek & US Hwy 20, Fixed Station Slc-1	487795.84	4605324.78
		IDEM	LMG050-0043	Salt Cr - D/S I-94	487662.43	4605685.21
		IDNR	C106*	Salt Creek - 149 Northern Crossing	489632.89	4601355.79
		IDNR	C107*	Salt Creek - 20 Crossing	487796.36	4605334.33
		IDNR	C109*	Salt Creek - Lenburg Rd.	488541.04	4603568.89

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001050050	Salt Creek-Squirrel Creek	USGS	413612087085301	Salt Creek - Salt Cr Abv Confl W Lt Calumet R @ I94	487662.53	4605746.89
04040001060010	Little Calumet River-Reynolds Creek	IDEM	LMG060-0022	E Br Little Calumet River - E Br Little Calumet River & Otis Rd - Nw of Town of Otis	507805.96	4606779.83
		IDEM	LMG060-0023	Ne Trib - US 421 & Northeast Trib of E. Br. Little Calumet R.	508770.21	4606340.86
		IDEM	LMG060-0024	Sw Trib - US 421(Snyder Rd.) & Southwest Trib of E Br Little Calumet River	508617.22	4605570.00
		IDEM	LMG060-0037	Walton -	511063.04	4606608.32
		IDNR	C39*	E. Branch Little Calumet - Co. Line Rd. (Northern Crossing)	505739.82	4607755.49
		IDNR	C40*	E. Branch Little Calumet - 1150 West	506539.81	4607489.72
		IDNR	C41*	Little Calumet R. - Otis Rd. To 0.5 Mile Downstream	507635.15	4606844.50
		IDNR	C42*	Little Calumet R. - Otis Rd. To US 421	507892.52	4606732.42
		IDNR	C43*	E. Branch Little Calumet - U.S. 421 (0101 N. U.S. 421)	508940.63	4606282.17
		IDNR	C44*	Little Calumet R. - Holmsville Rd. Downstream 0.2 Mile	509910.00	4605748.59
		IDNR	C65*	E. Branch Little Calumet - 1100 North	504058.95	4604357.09
		IDNR	C66*	E. Branch Little Calumet - W. Crossing 1200 N.	504324.67	4605989.25
		IDNR	C67*	E. Branch Little Calumet - E. Crossing 1200 N. (Burldick Rd.)	505274.98	4605468.09
		IDNR	C68*	Reynolds Creek - 1275 North	504998.74	4607266.44
		IDNR	C69*	Reynolds Creek - Co. Line Rd. (Southern Crossing)	505807.98	4605879.28
		IDNR	C70*	Reynolds Creek - Snyder Road	506458.70	4605036.07
		IDNR	C72*	E. Branch Little Calumet - Otis Road	507781.88	4606791.52
		IDNR	C73*	E. Branch Little Calumet - U.S. 421 (Upstream To Rr Bridge)	508691.66	4605460.30
		IDNR	C90*	E. Branch Little Calumet River - 1275 North Crossing Upstream 600 Ft.	504468.84	4607304.63
		USGS	413733086565501	Unnamed Trib Little Cal - Unnamed Trib To Lt Cal R Nr Beattys Corner Ind	504280.75	4608235.56
		USGS	413734086565301	Little Calumet River - Lt Cal R Downflow Fr Confl W Reynolds Cr Beattys	504327.01	4608266.43
04040001060020	Little Calumet River-Kemper Ditch	ECTF	D01/209	Little Calumet R. - Little Cale_Cr1275n	501048.84	4606715.00
		IDEM	LMG060-0011	Little Calumet River - Bridge on Cr 1300n, W of Cr 450e	501398.14	4607856.95
		IDEM	LMG060-0020	E Br Little Calumet River - E Br Little Calumet River & Cr 450 E	501629.51	4608017.06
		IDEM	LMG060-0021	E Br Little Calumet River - E Br Little Calumet River & Cr 600 E	504028.67	4608402.88
		IDEM	LMG060-0028	E Fk Little Calumet - Federal Heron Rookery	501897.44	4608111.18

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001060020	Little Calumet River-Kemper Ditch	IDNR	C34*	Little Calumet R. - County Rd. 1274 N To 1 Mile Upstream	498686.79	4607165.42
		IDNR	C35*	E. Branch Little Calumet River - 1300 North Crossing Downstream 750 Ft.	501372.80	4607690.59
		IDNR	C37*	E. Branch Little Calumet - 600 East, Heron Rookery	501475.43	4607936.22
		IDNR	C38*	E. Branch Little Calumet River - County Line Rd. Upstream 600 Ft. (Northern Crossing)	504131.54	4608409.50
		IDNR	C71*	Rice Lake Tributary - 1200 North	500891.59	4606087.93
		IDNR	C87*	E. Branch Little Calumet River - 1300 North Access Through Private Property	501393.20	4607858.34
		IDNR	C88*	E. Branch Little Calumet River - 250 E. Crossing Upstream 1300 Ft.	498578.99	4607057.13
		IDNR	C89*	E. Branch Little Calumet - 450 East	501617.45	4608024.54
		USGS	413726086585001	Little Calumet River - Lt Calumet R @ 450 E Rd Nr Brumnutt Acres in	501619.79	4608018.59
		USGS	413838086570101	Carver Ditch - Trib To Carver Dit @ Rd 600 E Nr Beattys Cor Ind	504140.76	4610240.04
		USGS	413901086563001	Carver Ditch - Carver Dit @ Rd 1500 N Nr Beattys Cor Ind	504857.39	4610949.80
		USGS	413903086555801	Kemper Ditch - Kemper Dit @ 1500 N Rd Nr Beattys Cor Ind	505597.52	4611012.01
04040001060030	Little Calumet River-Sand/Coffee Creeks	ECTF	D02/210	Little Calumet R. - Little Cal E_Calumetrd	495549.50	4607439.50
		IDEM	LMG060-0025	Coffee Cr - Morgan Ave Bridge Next To Park	495800.39	4606116.55
		IDEM	LMG060-0026	Coffee Cr - Cr 1100 N	496666.30	4604657.71
		IDNR	C33*	Little Calumet R. - Calumet Rd. North of Chesterton	495995.14	4607788.45
		IDNR	C74*	Sand Creek - 250 East	498508.23	4604933.41
		IDNR	C75*	Sand Creek - Porter Ave.	497850.08	4605721.82
		IDNR	C76*	Coffee Creek - 200 East	497732.26	4602024.87
		IDNR	C77*	Coffee Creek - 1100 North	496641.23	4604501.06
		IDNR	C78*	Coffee Creek - Indian Boundary Rd.	496000.93	4607121.48
		IDNR	C79*	Coffee Creek - Mander Rd.	499416.25	4600314.82
		IDNR	C80*	Sand Creek - Old Indian Treaty Rd. Crossing Upstream 500 Ft.	497363.61	4607148.74
		IDNR	C81*	E. Branch Little Calumet River - Hwy 49 Crossing Downstream 1300 Ft.	496258.44	4607659.86
		USGS	413536087022401	Coffee Creek - Coffee Cr @ 1100 N Rd Nr Chesterton Ind	496666.29	4604626.87
		USGS	413701087030001	Coffee Creek - Coffee Creek at Chesterton, Indiana	495834.38	4607248.64
		USGS	413717087025601	Little Calumet River - Little Calumet River @ Old SR 49	495927.23	4607742.01
04040001060040	Little Calumet River-Burns Ditch Outlet	ECTF	D03/212	Little Calumet R. - Little Cal E_Waverlyrd	495027.03	4607468.50

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001060040	Little Calumet River-Burns Ditch Outlet	ECTF	D04/213	Little Calumet R. - Little Cal E_Wagnerrd	494635.84	4607931.00
		ECTF	D05	Little Calumet East - Little Cal E_Samuelson	495099.94	4608090.00
		ECTF	F01	Burns Ditch - Burns Ditch_Portagemarina	485322.72	4607510.50
		ECTF	F02/223	Burns Harbor - Burns Waterway at US 12	485338.44	4608045.50
		ECTF	F03	Burns Ditch - Burns Ditch_Stp.Outfall	485238.19	4608754.00
		IDEM	LMG060-0002	Little Calumet River - Wagner Rd	493729.52	4607861.85
		IDEM	LMG060-0004	Little Calumet River - at Porter, in, 200 Ft Upstream of US 20. Gage #04094000	492756.97	4607775.35
		IDEM	LMG060-0005	Burns Ditch - SR 249 Bridge (Crisman R), Portage	485511.89	4606768.60
		IDEM	LMG060-0006	Burns Ditch - Midwest Steel Catwalk, Portage - Outlet To Lake Michigan	485284.75	4608866.15
		IDEM	LMG060-0007	Burns Ditch - Portage Public Marina, US Hwy 12	485304.92	4607416.65
		IDEM	LMG060-0008	E Br Little Calumet River - SR 149, S of US Hwy 12, Nw of Porter	489493.37	4607255.11
		IDEM	LMG060-0009	E Br Little Calumet River - Saltcreek Landing,SR 249 Bridge, North of I-94 Exit 19	485548.65	4606745.09
		IDEM	LMG060-0012	Burns Ditch - Upstream of Outlet To Lake Michigan - Midwest Steel Catwalk	485306.54	4608661.94
		IDEM	LMG060-0013	E Br Little Calumet River - SR 249 & E Br of Little Calumet River	485553.03	4606740.15
		IDEM	LMG060-0014	Samuelson Ditch - US 12 & Samuelson Ditch	487852.16	4607421.45
		IDEM	LMG060-0015	E Br Little Calumet River - SR 149 - Fixed Station Lcr 39 Near Porter	489504.49	4607263.73
		IDEM	LMG060-0016	E Br Little Calumet River - USGS Gaging Station Near Porter on US 20	492766.49	4607805.25
		IDEM	LMG060-0017	E Br Little Calumet River - Waverly Road & E Br Little Calumet River (Porter To Chesterton Area)	493749.07	4607836.10
		IDEM	LMG060-0019	E Br Little Calumet River - E Br Little Calumet River & Cr 250 E	494439.00	4607087.98
		IDEM	LMG060-0027	Burns Ditch - Midwest Trucking Bridge	485328.95	4607848.35
		IDNR	C108*	Salt Creek - From Confluence of Little Calumet Upstream 500 Ft.	487572.11	4606628.00
		IDNR	C32*	Little Calumet R. - Porter County Rd. 150 W	492000.01	4607819.82
		IDNR	C82*	E. Branch Little Calumet River - 149 Crossing Downstream 1/2 Mile, Sampled 600 Ft.	489412.45	4607232.30
		IDNR	C83*	E. Branch Little Calumet River - 149 Crossing 1/4 Mile Upstream Samples 600 Ft.	489554.62	4607276.31
		IDNR	C84*	E. Branch Little Calumet River - Howe Rd. Crossing Downstream 1500 Ft.	492098.59	4607868.03
		IDNR	C85*	E. Branch Little Calumet River - 20 Crossing Downstream 1500 Ft.	492758.65	4607810.49
		IDNR	C86*	Little Calumet R. - Sherman Rd. and I-94 Crossing	493574.41	4607854.49

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HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001060040	Little Calumet River-Burns Ditch Outlet	IDNR	C91*	Bethlehem Steel Discharge - From Confluence of Little Calumet Upstream in Discharge 300 Ft.	487728.41	4606749.28
		IDNR	C92*	E. Branch Little Calumet River - Samuelson Rd. To Bethlehem Steel Discharge	487863.81	4607172.39
		IDNR	C93*	E. Branch Little Calumet River - Bethlehem Steel Discharge To Shady Oak Trailer Court	488291.15	4607053.92
		IDNR	C94*	Little Calumet R. - Waverly Rd. and I-94 Crossing	494390.02	4607834.25
		USGS	04094000	Little Calumet R. - Little Calumet River at Porter, Ind.	492756.97	4607775.35
		USGS	04095000	Little Calumet R. - Little Calumet R Nr Mccool in	487154.84	4606611.28
		USGS	413641087084701	Little Calumet River - Lt Calumet R Ab Confl W Salt Cr & N Trib Burn	487802.94	4606640.99
		USGS	413648087084501	Little Calumet River - N Trib Lt Calumet R Abv Confl Nrburns Harbor in	487849.59	4606856.79
		USGS	413706087100501	Burns Ditch - Burns Ditch @ Hwy 12 Nr Ogden Dunes Ind	485304.99	4607447.49
04040001070010	East Branch Trail Creek	ECTF	G01	Trail Cr - Trail Cr_Us20&Us35	516227.06	4615580.50
		IDEM	LMG070-0020	E Br Trail Cr - E Br of Trail Creek at Cr 600 W.	515298.47	4615518.87
		IDNR	C21*	E. Branch Trail Creek - 600 West	515286.84	4615552.15
		IDNR	C22*	E. Branch Trail Creek - Hwy 35 & 180/94	515385.77	4615985.35
		IDNR	C23*	E. Branch Trail Creek - 525 West	516525.20	4616232.14
		IDNR	C24*	E. Branch Trail Creek - 700 North	518136.33	4617468.40
		IDNR	C25*	E. Branch Trail Creek - 750 North	518776.98	4617447.85
		IDNR	C26*	East Branch Trail Creek - Co. Rd. 300 W Bridge, From 500 Ft. Below To 500 Ft. Above Bridge	520113.25	4616560.52
		IDNR	C27*	East Branch Trail Creek - Co. Rd. 625 N Bridge To 1000 Ft. Above	520043.92	4616217.91
		IDNR	C28*	East Branch Trail Creek - Co. R. 450 E Upstream 1000 Ft. on Unnamed Tributary	517739.45	4616185.28
		IDNR	C29*	East Branch Trail Creek - Below Pond Off Co. Rd. 450 W, Downstream 1000 Ft.	517816.94	4615801.88
		IDNR	C30*	East Branch Trail Creek - Co. Rd. 400 W Upstream 1000 Ft.	518991.61	4618053.33
		IDNR	C31*	Bull Ditch - Bull Ditch From 100 Ft. Below Confluence W/Moon Ditch To Norfolk and Western Rr Bridge	519558.55	4618461.20
04040001070020	West Branch Trail Creek	ECTF	G02	Trail Cr - Trail Cr_Creekridge	512877.94	4613868.00
		ECTF	G03	Trail Cr - Trail Cr_Idnr Us20	512963.94	4614764.50
		IDEM	LMG070-0010	Trail Cr - Woziniak Rd, S of 400 N	513081.32	4612407.07
		IDEM	LMG070-0019	W Br of Trail Cr - W Br of Trail Creek, S of US 20 From Rd Leading To Orchard Highlands	512941.49	4614923.64
		IDEM	LMG070-0021	W Br Trail Cr - I-94 & Johnson Rd	512855.77	4613611.88
		IDNR	C111*	W. Branch Trail Creek - Norris Ditch	509941.61	4611512.62

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001070020	West Branch Trail Creek	IDNR	C112*	W. Branch Trail Creek - Norris Ditch (Site #2)	509317.53	4611212.02
		IDNR	C12*	West Branch Trail Creek - Bleck Rd. Bridge Upstream 200 Yds.	512918.41	4614863.78
		IDNR	C13*	West Branch Trail Creek - Johnson Rd. and I-94 From Start of Dredged Area To Waterford. Creek	512767.50	4613615.69
		IDNR	C14*	West Branch Trail Creek - Co. Rd. 400 N and I-94 Crossing From I-94 Bridge To 200 Yds. Above 400 N Bridge	511330.46	4612558.29
		IDNR	C15*	West Branch Trail Creek - Co. Rd. 300 N Bridge, 100 Ft. Above Bridge To Bridge	509696.23	4610915.59
		IDNR	C16*	West Branch Trail Creek - Co. Rd. 200 N Bridge To 1000 Ft. Upstream	509851.22	4609479.88
		IDNR	C17*	West Branch Trail Creek - Shebel Rd. Crossing, From Road To Pond Below	510450.79	4608651.90
		IDNR	C18*	Wolf Run - 450 North	513027.20	4613427.15
		IDNR	C19*	Waterford Creek - 400 North	512845.45	4612660.76
		IDNR	C20*	Waterford Creek - Co. Rd. 350 N Bridge Upstream To Y	513424.17	4611776.20
		USGS	413641086504200	Pinhook Bog - Pinhook Bog @ I-80 Near Pinhook, Indiana	512914.54	4606642.24
		USGS	413642086504300	Pinhook Bog - Pinhook Bog @ Salt Star Area Nr. Pinhook	512891.34	4606673.04
		USGS	413652086510600	Pinhook Bog - Pinhook Bog @ Wozniak Road Nr Pinhook, Indiana	512358.49	4606980.50
		USGS	413653086502900	Pinhook Bog - Pinhook Bog Ne Near Pinhook, Indiana	513214.74	4607012.86
		USGS	413654086510200	Pinhook Bog - Open Water Pinhook Bog Nr Pinhook, Indiana	512450.96	4607042.34
		USGS	413710086502700	Pinhook Bog - Ne Inlet Pinhook Bog Nr Pinhook, Ind	513260.05	4607537.22
04040001070030	Trail Creek-Otter Creek	ECTF	G04/404	Trail Creek - Trail Cr_Libertytrail	510824.78	4618953.00
		ECTF	G05/405	Trail Creek - Trail Cr_Peanutbridge	510186.16	4618663.00
		ECTF	G06/409	Trail Creek - Trail Ck Mich. City Harbor	509272.88	4618242.50
		ECTF	G07/407	Trail Creek - Trail Cr_E.St	508735.66	4618487.50
		ECTF	G08/408	Trail Creek - Trail Crk at Franklin St.	507937.00	4618746.50
		ECTF	Z12	Jeorse Park - Jeorse Park	507891.47	4618698.42
		ECTF	Z13	Sheridan Beach - Sheridan Beach	509809.17	4619960.15
		IDEM	LMG070-0004	Lake Michigan - Raw Water, Michigan City Waterworks	508432.99	4619125.63
		IDEM	LMG070-0005	Trail Cr - Michigan City, Liberty St Bridge	510327.75	4618973.91
		IDEM	LMG070-0006	Trail Cr - Walker St, Michigan City	509196.41	4618355.57
		IDEM	LMG070-0007	Trail Cr - Franklin St Bridge, Michigan City	507947.94	4619001.72
		IDEM	LMG070-0008	Trail Cr - US 12 Bridge, Michigan City	508571.91	4618879.08

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001070030	Trail Creek-Otter Creek	IDEM	LMG070-0011	Trail Cr - Old US 20 Bridge, S of US 20, E of Johnson Rd	512946.28	4615092.35
		IDEM	LMG070-0012	Trail Cr - Fixed Station Tc .5, Franklin St Bridge on US 421, Michigan City	507948.40	4619002.03
		IDEM	LMG070-0013	Trail Cr - Fixed Station Tc 1, US Highway 12 Bridge, Michigan City	508572.37	4618879.39
		IDEM	LMG070-0014	Trail Cr - Michigan City WWTP Effluent	509659.67	4618551.71
		IDEM	LMG070-0015	Trail Cr - Fixed Station Tc 2, Liberty Bridge, Michigan City	510327.98	4618973.91
		IDEM	LMG070-0016	Trail Cr - USGS Gaging Station, Springland Avenue	511646.43	4618339.40
		IDEM	LMG070-0017	Trail Cr - US 35	511956.32	4617079.18
		IDEM	LMG070-0018	Trail Cr - US 20	512916.92	4615088.90
		IDEM	LMG070-0022	Trail Cr - SR 35 Bridge	511948.20	4617095.20
		IDEM	LMG070-0024	Trib of Trail Cr - Karwick Rd	512027.30	4618159.31
		IDEM	LMG070-0025	Trail Cr - Michigan City Idnr Ramp	507809.45	4618878.21
		IDNR	C1*	Trail Creek - Franklin St. Bridge To Norfolk & Western Rr Bridge	508094.75	4619055.90
		IDNR	C10*	Trail Creek - Michigan City Fish & Game Club Area From Below State Weir Site To 100 Yds. Above Fish & Game Club Pond Outfall	512155.69	4616809.32
		IDNR	C11*	Trail Creek - US 20 To Confluence of East & West Branches of Trail Creek	512922.49	4615071.79
		IDNR	C2*	Trail Creek - Georg Marina Dock To East St. Bridge	508733.65	4618681.45
		IDNR	C3*	Trail Creek - Nipsco Sustation To Norfolk & Western Rr Bridge Above Sewage Treatment Plant	509622.81	4618571.33
		IDNR	C4*	Trail Creek - 1500 Ft. Below Liberty Trail Bridge Up To Bridge	510238.70	4618946.57
		IDNR	C5*	Trail Creek - Friendship Gardens Lower Boundary Upstream 500 Yds.	510805.64	4619170.90
		IDNR	C6*	Trail Creek - Lower End of Potawatomie Golf Course, Otter Ditch Upstream 1000 Ft.	511421.52	4619232.08
		IDNR	C7*	Trail Creek - Potawatomie Golf Course, 200 Yds. Downstream To 100 Yds. Upstream From Clubhouse	511674.40	4618763.03
		IDNR	C8*	Trail Creek - Springland Ave. Bridge, 200 Yds. Below To 300 Yds. Above	511649.93	4618342.92
		IDNR	C9*	Trail Creek - South Shore Rr Bridge To Just Above Y	511890.57	4617747.43
		USGS	04095300	Trail Creek - Trail Creek at Michigan City, Ind.	511668.87	4618328.33
04040001080010	Lake Michigan Shoreline-Dunes	ECTF	J02/302	Dunes Creek - Dunes Creek at Mouth	494476.97	4612048.50
		ECTF	J03/303	Dune Acres - Dune Acres Beach	491994.75	4611053.50
		ECTF	J04/304	Porter Beach - Porter Beach	494142.75	4611925.50

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001080010	Lake Michigan Shoreline-Dunes	ECTF	J05/305	West Beach - St. Park West Beach	494346.06	4611991.00
		ECTF	J06/306	East Beach - St. Park East Beach	494621.84	4612120.50
		ECTF	J10/310	Central Beach - Central Beach	503686.81	4616734.00
		ECTF	J11/311	Mount Baldy Beach - Mount Baldy Beach	506022.03	4617675.50
		ECTF	Z4/307	Kemil Road Beach - Kemil Road Beach	499183.94	4614370.81
04040001080020	Dunes Creek	ECTF	J01/301	Derby Ditch - Derby Ditch at Mouth	494790.19	4612167.00
		ECTF	J09/309	Lakeview Beach - Lakeview Beach	495646.75	4612672.00
		USGS	413807087053500	Nipsco Ditch - Nipsco Ditch @ Dune Acres, Ind.	492249.51	4609287.01
		USGS	413814087060300	Bethlehem Steel Discharge - Bethlehem Steel Culvert at Dune Acres Ind	491601.96	4609503.61
		USGS	413816087054500	USGS Dunes - USGS Dunes Surface Water For Gm-1-Sw 0 Ft	492018.46	4609564.81
		USGS	413819087064700	Nipsco Ash Pond - Nipsco Ash Pond No 4 at Dune Acres Ind	490584.22	4609659.07
		USGS	413819087064801	Nipsco Ash Pond - Nipsco Ash Settling Pond No 3 at Dune Acres Ind	490561.08	4609659.10
		USGS	413821087051200	USGS Dunes - USGS Dunes Surface Water Gm-2-Sw 0 Ft	492782.07	4609718.20
		USGS	413821087064101	Nipsco Ash Pond - Inter-Dunal Pond B Se Corner Nr. Nipsco Ash Pond	490723.10	4609720.57
		USGS	413822087065200	Dune Acres - Inter-Dunal Pond B at Dune Acres Ind	490468.67	4609751.74
		USGS	413828087053500	USGS Dunes - USGS Dunes Surface Water Gm-45-Sw 0 Ft	492250.21	4609934.63
		USGS	413829087052700	USGS Dunes - USGS Dunes Surface Water Gm-44-Sw 0 Ft	492435.31	4609965.28
		USGS	413830087042900	USGS Dunes - USGS Dunes Surface Water For Gm-6 0 Ft	493777.09	4609994.83
		USGS	413830087055300	Cowles Bog - W Inlet Cowles Bog at Dune Acres Ind	491833.87	4609996.77
		USGS	413831087040701	Markowitz Ditch - Markowitz Dit Abv Rr Xing @ Dune Acres, Ind.	494286.05	4610025.24
		USGS	413831087051200	USGS Dunes - USGS Dunes Surface Water Gm-3-Sw 0 Ft	492782.38	4610026.60
		USGS	413831087053700	USGS Dunes - USGS Dunes Surface Water Gm-46-Sw 0 Ft	492204.04	4610027.20
		USGS	413831087063000	Dune Acres - Inter-Dunal Pond C at Dune Acres Ind	490977.97	4610028.64
		USGS	413832087052000	USGS Dunes - USGS Dunes Surface Water Gm-39-Sw 0 Ft	492597.34	4610057.63
		USGS	413832087052800	USGS Dunes - USGS Dunes Surface Water Gm-38-Sw 0 Ft	492412.27	4610057.82
		USGS	413832087053400	USGS Dunes - USGS Dunes Surface Water Gm-4c-Sw 0 Ft	492273.47	4610057.97

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001080020	Dunes Creek	USGS	413833087060701	Dune Acres - E. Side Inter-Dunal Pond C @ Dune Acres, in.	491510.11	4610089.67
		USGS	413833087065801	Dune Acres - Inter-Dunal Pond #B1 Dune Acres	490330.32	4610091.16
		USGS	413834087040601	Markowitz Ditch - Markowitz Dit Abv All Tribs & N of Chi & Sb Rr	494309.26	4610117.74
		USGS	413835087053000	USGS Dunes - USGS Dunes Surface Water Gm-4b-Sw 0 Ft	492366.11	4610150.39
		USGS	413839087051200	Cowles Bog - Cowles Bog at 100 W Rd at Dune Acres, Ind	492782.62	4610273.31
		USGS	413842087045200	USGS Dunes - USGS Dunes Surface Water Gm-7-Sw 0 Ft	493245.36	4610365.38
		USGS	413843087040701	Markowitz Ditch - Markowitz Ditch Abw Trib C @ Dune Acres Ind	494286.34	4610395.32
		USGS	413843087052900	USGS Dunes - USGS Dunes Surface Water Gm-4a-Sw 0 Ft	492389.50	4610397.08
		USGS	413845087052900	Cowles Bog - N Inlet Cowles Bog at Dune Acres Ind	492389.57	4610458.76
		USGS	413853087052100	USGS Dunes - USGS Dunes Surface Water Gm-5-Sw 0 Ft	492574.88	4610705.28
		USGS	413855087052200	Cowles Bog - N. Inlet Cowles Bog Dune Acres, Ind.	492551.81	4610766.98
		USGS	413900087040800	USGS Dunes - USGS Dunes Surface Water Gm-8-Sw 0 Ft	494263.63	4610919.61
		USGS	413904087023600	Dunes Creek - Dunes Creek US Hwy 12 @ Tremont, Indiana	496391.70	4611041.58
		USGS	413907087040100	Markowitz Ditch - Markowitz Ditch at Porter, Indiana	494425.71	4611135.35
		USGS	413907087040201	Dunes Creek - Dunes Crk-Waverly	494402.58	4611135.37
		USGS	413925087025900	Dunes Creek - Trib To Dunes Creek @ Dunes State Park, Indiana	495860.08	4611689.50
		USGS	413937087013900	USGS Dunes - USGS Dunes Surface Water Gm-13-Sw 0 Ft	497710.44	4612058.74
		USGS	413945087034400	Dunes Creek - Dunes Creek @ Dunes State Park, Indiana	494819.76	4612306.96
		USGS	413949087014400	USGS Dunes - USGS Dunes Surface Water Gm-16-Sw 0 Ft	497594.93	4612428.85
		USGS	413957087002604	USGS Dunes - USGS Dunes 211-8-Sw Nr Beverly Shores, IN.	499398.75	4612675.19
04040001080030	Beverly Shores Tributary	USGS	414013087000700	USGS Dunes - USGS Dunes Surface Water Gm-21-Sw 0 Ft	499838.14	4613168.60
		USGS	414017087002703	USGS Dunes - USGS Dunes 321-Sw Nr Beverly Shores, IN.	499375.68	4613291.98
		USGS	414022087003503	USGS Dunes - USGS Dunes 324-Sw Nr Beverly Shores, IN.	499190.72	4613446.20
		USGS	414028087003203	USGS Dunes - USGS Surface Water at Site 305 at Bev. Shores, in	499260.10	4613631.23

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001080030	Beverly Shores Tributary	USGS	414029087000800	USGS Dunes - USGS Dunes Surface Water Gm-22-Sw 0 Ft	499815.03	4613662.03
		USGS	414031086593700	Derby Ditch - Derby Dit @ Jones Ave. @ Beverly Shores, Ind.	500531.79	4613723.73
		USGS	414034086595201	East Derby Ditch - E. Derby Ditch Trib Nr Beverly Shores, Ind.	500184.97	4613816.23
		USGS	414036086590600	USGS Dunes - USGS Dunes Surface Water Gm-24-Sw 0 Ft	501248.53	4613878.02
		USGS	414046086592101	West Derby Ditch - W. Derby Dit Trb @ Brdy. St. Beverly Shores, in.	500901.68	4614186.36
		USGS	414050086590500	USGS Dunes - USGS Dunes Surface Water Gm-25-Sw 0 Ft	501271.58	4614309.78
		USGS	414104086583601	East Derby Ditch - E Derby Dit Trib at Wells St at Bev Shores Ind	501941.93	4614741.68
		USGS	414107086592800	Derby Ditch - Derby Dit Outlet, Beverly Shores, Ind.	500739.77	4614833.98
04040001080040	Kintzele Ditch	ECTF	J08/308	Kintzele Ditch - Kintzele Ditch at Mouth	505036.75	4616185.50
		IDEM	LMG080-0001	Kintzele Ditch - Beverly Shores Rd	504957.55	4616624.36
		USGS	414035086574401	USGS Dunes - USGS Site Dd-72 Nr Pines, IN.	503144.47	4613847.76
		USGS	414039086573301	West Brown Ditch - W Brown Ditch Trib @ Pines Ab Ash Fill Runoff	503398.74	4613971.23
		USGS	414041086542001	Streibil - E Fk Streibil Arm Abv Co Nfl W E Fk Mich City in	507860.97	4614036.42
		USGS	414041086542401	Streibil - W Fk Streibil Arm Michigan City, in.	507768.48	4614036.32
		USGS	414045086572201	West Brown Ditch - W Brown Ditch Trib @ Pines Below Ash Fill Runoff	503652.97	4614156.40
		USGS	414047086542401	Streibil - Streibil Arm Btwn Headwater Conf @ US 20	507768.28	4614221.35
		USGS	414051086542401	Streibil - Streibil Arm US 20 Michigan City, Ind.	507768.15	4614344.71
		USGS	414052086554001	Kintzele Ditch - Kintzele US 20 Michigan City, Ind.	506011.04	4614373.86
		USGS	414058086565701	East Brown Ditch - E Brown Ditch Trib @ US 20 @ Pines Ind	504230.74	4614557.63
		USGS	414107086571900	Brown Ditch - Brown Dit at U S Hwy 12 at Pines Ind	503721.98	4614834.90
		USGS	414107086574100	USGS Dunes - USGS Dunes Surface Water Gm-29-Sw 0 Ft	503213.39	4614834.66
		USGS	414111086572201	USGS Dunes - USGS Site Bd-Idnl Nr Pines, IN.	503652.57	4614958.23
		USGS	414122086560001	East Brown Ditch - E Brown Dit Trib @ County Line Rd Nr Mich City I	505547.94	4615298.68
		USGS	414125086574800	USGS Dunes - USGS Dunes Surface Water Gm-30-Sw 0 Ft	503051.33	4615389.70
		USGS	414143086543701	Streibil - Streibil Arm Abv Culvert Disch S Monon Rr Xing	507465.93	4615948.06
		USGS	414149086560800	Kintzele Ditch - Kintzele Dit at US Hwy 12 at Pines Ind	505362.38	4616131.21

Table 5. Locations of monitoring points in the Coastal Nonpoint Pollution Control Plan Area (CNPCPA). Monitoring points include both historical and active sites.

HUC14	HUC Name	Agency	Station ID	Station Name	UTMX NAD83	UTMY NAD83
04040001080040	Kintzele Ditch	USGS	414150086543701	Streibil - Streibil Arm Below Culue Rt Disch S of Monon Rr	507465.70	4616163.93
		USGS	414153086540801	Streibil - Streibil Arm @ Hitchcock Rd Mich City Ind	508135.89	4616257.18
04040001090010	Lake Michigan Shoreline-LaPorte	ECTF	Z10	Duneland Beach	513864.62	4622713.43
		ECTF	Z6/413	California Avenue Beach	508824.21	4619915.45
		ECTF	Z7/414	Long Beach - Long Beach Stop 24	512152.87	4621460.42
		ECTF	Z9/416	Long Beach - Michiana Shrs Bea. Stop 37	514692.49	4622975.45
04040001090020	White Ditch	ECTF	G09	Trail Cr - Trail Cr_1000n 150e	514575.78	4621778.50
		ECTF	Z8/415	Long Beach - Shoreland Hills Bea. Stop 31	513533.16	4622284.05
04040001100050	Galena River-Headwaters	IDEM	LMG100-0001	S Br Galena River - Cr 900 N	526205.33	4620948.59
		IDEM	LMG100-0004	Galena River - Bridge on 125E, N of 900N	527010.59	4621848.56
		IDEM	LMG100-0006	Galena River - Cr 125 E Bridge	527010.11	4621854.73
		IDNR	C47*	Galena River - 900 North Crossing Upstream 750 Ft.	525812.21	4620740.55
		IDNR	C48*	Galena River - Wilhelm Rd. Crossing Downstream 750 Ft.	524168.14	4619507.50
		USGS	04096100	Galena River - Galena River Near Laporte, Ind.	527021.54	4621885.61
04040001100060	Galena River-Hog Lake Trib	IDNR	C45*	Galena River - 1000 North Upstream 1300 Ft.	527615.85	4622447.49
		IDNR	C46*	Galena River - 200 East Crossing; Sampling on Both Sides of Bridge, Total 750 Ft.	528109.07	4619937.86

Table 6. Period of record for active sites (as of 2004) in the CNPCPA. Most of the IDEM sites are continuously active for their period of record. The ECTF sites have continuous data for the bathing season (May-Sept), and the USGS (none active in CNPCPA in 2004) and IDNR sites are program-specific and have spotty temporal data collection histories.

Agency	Station ID	From	To	Years	# Sampling events	Average Parameters	UTMX NAD83	UTMY NAD83
ECTF	F05/226	1997	2004	6.9	248	1	483453.47	4608367.50
ECTF	J04/304	1997	2004	6.9	218	1	494142.75	4611925.50
ECTF	J05/305	1997	2004	6.9	212	1	494346.06	4611991.00
ECTF	J06/306	1997	2004	6.9	208	1	494621.84	4612120.50
ECTF	J09/309	1997	2004	6.9	217	1	495646.75	4612672.00
ECTF	J10/310	1997	2004	6.9	176	1	503686.81	4616734.00
ECTF	J11/311	1997	2004	6.9	184	1	506022.03	4617675.50
ECTF	Z1*	2001	2004	3.3	140	1	477633.21	4607570.80
ECTF	Z2*	2001	2004	3.3	139	1	478571.24	4607632.23
ECTF	Z4*	1999	2004	5.4	204	1	499183.94	4614370.81
IDEM	LMG020-0001	1999	2004	5.2	58	52	474887.20	4606335.27
IDEM	LMG020-0003	1990	2004	14.8	153	56	461768.31	4611605.09
IDEM	LMG020-0004	1990	2004	14.8	168	38	460764.17	4609852.60
IDEM	LMG020-0005	1990	2004	14.8	169	36	459982.07	4610658.77
IDEM	LMG020-0006	1991	2004	13.8	157	38	459469.73	4614146.63
IDEM	LMG020-0008	1990	2004	14.8	163	36	463501.56	4611318.50
IDEM	LMG020-0009	1990	2004	14.8	167	39	471457.75	4605361.20
IDEM	LMG020-0010	1990	2004	14.5	169	40	457883.65	4615728.66
IDEM	LMG020-0011	1990	2004	14.8	169	39	461535.72	4607041.95
IDEM	LMG020-0012	1990	2004	14.8	173	36	469008.52	4606419.89
IDEM	LMG020-0013	1997	2004	7.7	93	51	483384.08	4607389.99
IDEM	LMG020-0014	1991	2004	13.6	146	22	456314.44	4612376.39
IDEM	LMG030-0008	2000	2004	4.1	13	38	478609.71	4598225.74
IDEM	LMG040-0003	1990	2004	14.8	173	25	483912.48	4605661.78
IDEM	LMG050-0006	1991	2004	13.8	159	22	487800.74	4605345.74
IDEM	LMG050-0007	1991	2004	13.8	157	25	488175.85	4594119.72
IDEM	LMG060-0005	1990	2004	14.8	174	26	485511.89	4606768.60
IDEM	LMG060-0007	1990	2004	14.8	190	48	485304.92	4607416.65
IDEM	LMG060-0008	1990	2004	14.4	167	21	489493.37	4607255.11
IDEM	LMG070-0004	1990	2004	14.8	152	44	508432.99	4619125.63
IDEM	LMG070-0005	1991	2004	13.8	160	27	510327.75	4618973.91
IDEM	LMG070-0006	2004	2004	0.0	1	30	509196.41	4618355.57
IDEM	LMG070-0007	1991	2004	13.8	158	40	507947.94	4619001.72
IDEM	LMG070-0008	1991	2004	13.8	154	30	508571.91	4618879.08
IDNR	C120*	2004	2004	0.0	1	12	483343.65	4602721.01
IDNR	C121*	2004	2004	0.0	1	12	482711.03	4603122.18
IDNR	C122*	2004	2004	0.0	1	12	482497.70	4604521.56
IDNR	C123*	2004	2004	0.0	1	12	478018.13	4603234.90
IDNR	C49*	1978	2004	26.2	2	11	475760.89	4601299.26
IDNR	C50*	1978	2004	26.3	3	10	484376.08	4605960.52
IDNR	C54*	1978	2004	26.1	3	10	480299.81	4602362.32
IDNR	C56*	1978	2004	26.2	3	10	478942.02	4599901.49
IDNR	C95*	1977	2004	27.0	2	12	489875.43	4599833.42
IDNR	C97*	1977	2004	27.0	2	12	488541.79	4595050.46

* Sites without unique agency identifiers were given a station ID for this project.

V. Results

Water-quality database

Surface-water quality data have been compiled for the period of record and are contained in a Microsoft Access database, which accompanies this report (*CNP_waterquality.July2005.mdb*).

2004 water-quality data

Water quality data for the 2004 sites are provided in Appendices B, C, D, and E of this report. Data are listed by data-collection agency, and sorted for each stream name and site location. Each agency analyzes for different constituents, which are listed in each table. The data are listed in the following order:

- IDEM (AIMS) laboratory analyses
- IDEM (AIMS) field monitoring results
- USGS monitoring data
- ECTF (*E. coli*) monitoring data
- IDNR monitoring data

Table 7 lists the common parameters for which each agency usually analyzed the surface-water quality samples that they collected. In the case of IDEM and USGS, the available analyses far exceeded the typical analyses conducted on most samples. Refer to Appendix F for the full suites of analyses from which each agency was able to choose.

High-quality data used for analysis

In order to assess the data for temporal and spatial trends, we selected a subset of the data that represented the most robust data available in the CNPCPA. The criteria used to select these data were: (1) a minimum of five (5) years of record and a minimum of twenty (20) data points (sampling events) per parameter (analyte). This would equate to quarterly sampling for five years. These data were collected at 38 sites within the CNPCPA (8% of all sites); the stations are listed in Table 8 and are also shown on Figure 8. Of the 38 "high quality" data-collection stations, 22 were IDEM fixed station locations, 10 were *E. coli* Task Force locations (primarily near beaches), and 6 were USGS stations. Only 30 (79%) of the high quality stations were active data-collection locations in 2004. The active stations are noted on Figure 8.

It should be noted that trends other than ones identified in this report may exist; however, the stations that were not included in the analysis do not have sufficient data to identify statistically significant trends over time. This indicates the presence of temporal data gaps.

Data gaps: spatial and temporal

Most of the high-quality monitoring points are located in the trunk streams near the Lake Michigan coast. Only one site is located in a headwater tributary subwatershed (HUC 04040001050, Salt Creek IDEM site number LMG050-0007). Only six (6) of the nine (9) major HUC11 watersheds have continuous (greater than 5 years) monitoring at a minimum of quarterly sampling, and 68% of the sites lie within two (2) HUC11 subwatersheds: the Grand Calumet (04040001020) and the Dunes Creek (04040001080) subwatersheds. Figure 9 shows the density of sites per square kilometer in each HUC11 subwatershed. The watersheds with no sample sites are shown in white, and the areas with the highest density of high-quality sites are in the subwatersheds closest to the lake.

Table 7. Table of common parameters analyzed by each agency at water-quality monitoring stations in the CNPCPA.

Common Panel of Parameters

IDEM	Alkalinity (as CaCO3) (mg/L)	**USGS**	Ammonium, Ammonia (dissolved) (mg/L)	**ECTF**	Conductivity_mS
	Arsenic (Total) (ug/L)		Arsenic (dissolved) (ug/L)		*E. coli* cfu/100mL
	Barium (Total) (ug/L)		Cadmium (dissolved) (ug/L)		pH
	Cadmium (Total) (ug/L)		Calcium (dissolved) (mg/L)		Water_tempC
	Calcium (as CaCO3) (mg/L)		Carbon (Inorganic) (mg/L)		
	Chloride (mg/L)		Carbon (Organic) (mg/L)		
	Chromium (Total) (ug/L)		Chloride (dissolved) (mg/L)		
	Chromium, Hexavalent (ug/L)		Chromium (total) (ug/L)		
	COD (mg/L)		Chromium, Hexavalent (dissolved) (ug/L)	**IDNR**	Air Temperature (F)
	Copper (Total) (ug/L)		Cobalt (dissolved) (ug/L)		Alkalinity (as CaCO3) (mg/L)
	Cyanide (Total) (mg/L)		Cyanide (total) (mg/L)		Ammonia (mg/L)
	Dissolved Oxygen (mg/L)		Fluoride (dissolved) (mg/L)		Biological Oxygen Demand (mg/L)
	E. coli cfu/100mL		Hardness (as CaCO3) (mg/L)		Discharge (CFS)
	Fluoride (mg/L)		Iron (total) (ug/L)		Dissolved Oxygen (mg/L)
	Hardness (as CaCO3) (mg/L)		Lead (dissolved) (ug/L)		Nitrate (mg/L)
	Iron (Total) (ug/L)		Magnesium (dissolved) (mg/L)		pH (SU)
	Lead (Total) (ug/L)		Mercury (dissolved) (ug/L)		Phosphate (mg/L)
	Manganese (Total) (ug/L)		Mercury (total) (ug/L)		Water Temperature (F)
	Mercury (Total) (ug/L)		Nitrogen (total) (mg/L)		
	Nickel (Total) (ug/L)		Nitrogen, Ammonia (dissolved) (mg/L)		
	Nitrogen, Ammonia (mg/L)		Nitrogen, Nitrate+Nitrite (dissolved) (mg/L)		
	Nitrogen, Nitrate+Nitrite (mg/L)		Nitrogen, Nitrite (total) (mg/L)		
	pH (SU)		Nitrogen, Reduced (mg/L)		
	Phenolics, Total (ug/L)		Nitrogen, Reduced (total) (mg/L)		
	Phosphorus, Total (mg/L)		Phenolics (total) (ug/L)		
	Saturation PerCent (%)		Phosphorus (total) (mg/L)		
	Selenium (Total) (ug/L)		Phosphorus, Orthophosphate (mg/L)		
	Silica (Reactive Dissolved) (mg/L)		Residue (total) (mg/L)		
	Silver (Total) (ug/L)		Sulfate (dissolved) (mg/L)		
	Sodium (ug/L)		Suspended Sediment Conc. (mg/L)		
	Specific Conductance (uS/cm)		Suspended Sediment Discharge (tons/day)		
	Sulfate (mg/L)		Water Temperature (°C)		
	TDS (mg/L)		Zinc (total) (ug/L)		
	TKN (mg/L)				
	TS (mg/L)				
	Turbidity (NTU)				
	Water Temperature (C)				
	Zinc (Total) (ug/L)				

Table 8. Period of record for high-quality monitoring stations used in trend analyses. All sites had a minimum of five years of record and 20 sampling events.

Agency	Station ID	From	To	Years	# Sampling events	Average Parameters	UTMX NAD83	UTMY NAD83	HUC14	HUC Name
ECTF	A13/113	1997	2003	5.83	75	1	457794.86	4615672.02	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
ECTF	F05/226	1997	2004	6.91	248	1	483453.47	4608367.50	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
ECTF	J03/303	1997	2003	5.89	145	1	491994.75	4611053.50	4040001080010	Lake Michigan Shoreline-Dunes
ECTF	J04/304	1997	2004	6.91	218	1	494142.75	4611925.50	4040001080010	Lake Michigan Shoreline-Dunes
ECTF	J05/305	1997	2004	6.91	212	1	494346.06	4611991.00	4040001080010	Lake Michigan Shoreline-Dunes
ECTF	J06/306	1997	2004	6.91	208	1	494621.84	4612120.50	4040001080010	Lake Michigan Shoreline-Dunes
ECTF	J09/309	1997	2004	6.91	217	1	495646.75	4612672.00	4040001080020	Dunes Creek
ECTF	J10/310	1997	2004	6.91	176	1	503686.81	4616734.00	4040001080010	Lake Michigan Shoreline-Dunes
ECTF	J11/311	1997	2004	6.91	184	1	506022.03	4617675.50	4040001080010	Lake Michigan Shoreline-Dunes
ECTF	Z4/307	1999	2004	5.41	204	1	499183.94	4614370.81	4040001080010	Lake Michigan Shoreline-Dunes
IDEM	LMG020-0001	1999	2004	5.17	58	52	474887.20	4606335.27	4040001020020	Grand Calumet River-Gary
IDEM	LMG020-0003	1990	2004	14.76	153	56	461768.31	4611605.09	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0004	1990	2004	14.76	168	38	460764.17	4609852.60	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0005	1990	2004	14.76	169	36	459982.07	4610658.77	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0006	1991	2004	13.78	157	38	459469.73	4614146.63	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0008	1990	2004	14.76	163	36	463501.56	4611318.50	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0009	1990	2004	14.77	167	39	471457.75	4605361.20	4040001020020	Grand Calumet River-Gary
IDEM	LMG020-0010	1990	2004	14.46	169	40	457883.65	4615728.66	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0011	1990	2004	14.77	169	39	461535.72	4607041.95	4040001020020	Grand Calumet River-Gary
IDEM	LMG020-0012	1990	2004	14.77	173	36	469008.52	4606419.89	4040001020020	Grand Calumet River-Gary
IDEM	LMG020-0013	1997	2004	7.75	93	51	483384.08	4607389.99	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG020-0014	1991	2004	13.65	146	22	456314.44	4612376.39	4040001020010	Lake Michigan Shoreline-Ind Harbor Canal
IDEM	LMG040-0003	1990	2004	14.79	173	25	483912.48	4605661.78	4040001040030	Burns Ditch-Willow Creek
IDEM	LMG050-0006	1991	2004	13.81	159	22	487800.74	4605345.74	4040001050050	Salt Creek-Squirrel Creek
IDEM	LMG050-0007	1991	2004	13.81	157	25	488175.85	4594119.72	4040001050020	Salt Creek-Clark Ditch
IDEM	LMG060-0005	1990	2004	14.79	174	26	485511.89	4606768.60	4040001060040	Little Calumet River-Burns Ditch Outlet
IDEM	LMG060-0007	1990	2004	14.79	190	48	485304.92	4607416.65	4040001060040	Little Calumet River-Burns Ditch Outlet
IDEM	LMG060-0008	1990	2004	14.42	167	21	489493.37	4607255.11	4040001060040	Little Calumet River-Burns Ditch Outlet
IDEM	LMG070-0004	1990	2004	14.79	152	44	508432.99	4619125.63	4040001070030	Trail Creek-Otter Creek
IDEM	LMG070-0005	1991	2004	13.81	160	27	510327.75	4618973.91	4040001070030	Trail Creek-Otter Creek
IDEM	LMG070-0007	1991	2004	13.81	158	40	507947.94	4619001.72	4040001070030	Trail Creek-Otter Creek
IDEM	LMG070-0008	1991	2004	13.81	154	30	508571.91	4618879.08	4040001070030	Trail Creek-Otter Creek
USGS	04094000	1973	1980	6.95	27	22	492756.97	4607775.35	4040001060040	Little Calumet River-Burns Ditch Outlet
USGS	04095300	1977	1994	16.82	78	20	511668.87	4618328.33	4040001070030	Trail Creek-Otter Creek
USGS	413814087060300	1973	1980	6.95	23	21	491601.96	4609503.61	4040001080020	Dunes Creek
USGS	413822087065200	1973	1980	6.95	30	34	490468.67	4609751.74	4040001080020	Dunes Creek
USGS	413833087065801	1974	1980	6.22	23	22	490330.32	4610091.16	4040001080020	Dunes Creek
USGS	413904087023600	1973	1980	6.95	22	23	496391.70	4611041.58	4040001080020	Dunes Creek

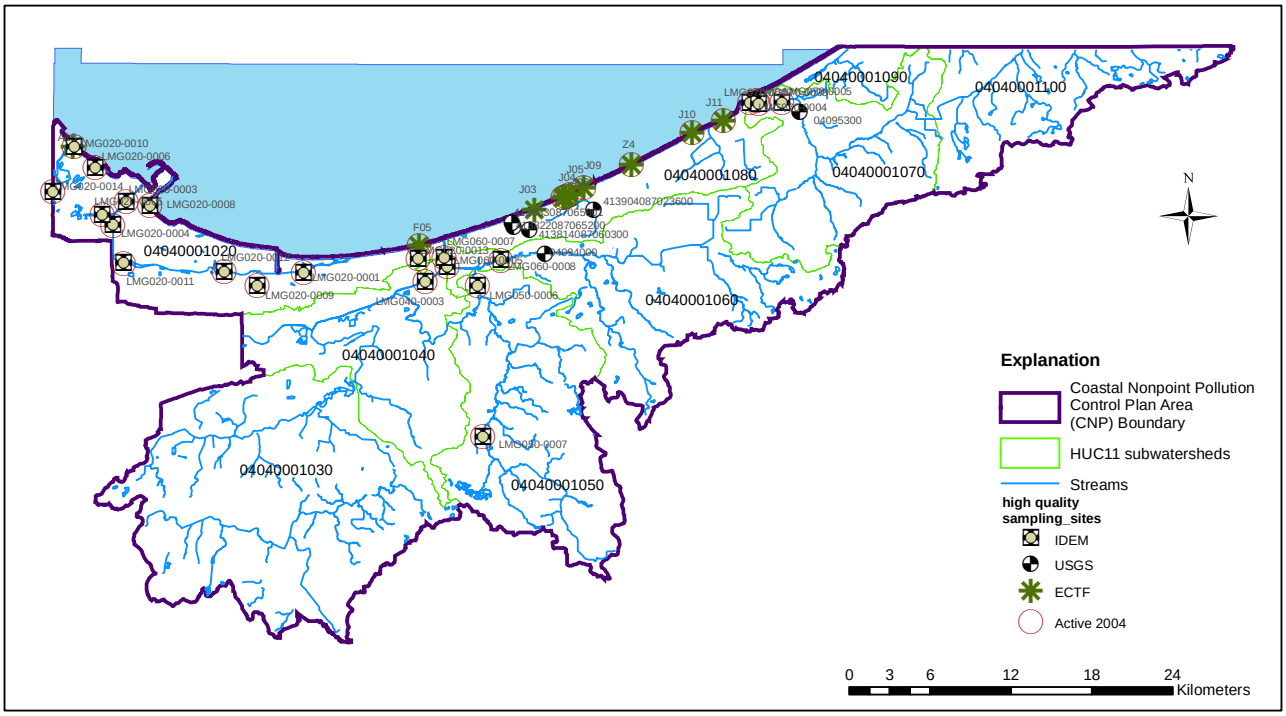


Figure 8. Map showing "high quality" monitoring locations within the CNPCPA. These monitoring locations have a minimum period of record of five years, and they also have a minimum of twenty sampling events for each parameter. These locations were used to evaluate temporal and spatial water-quality trends in the region.

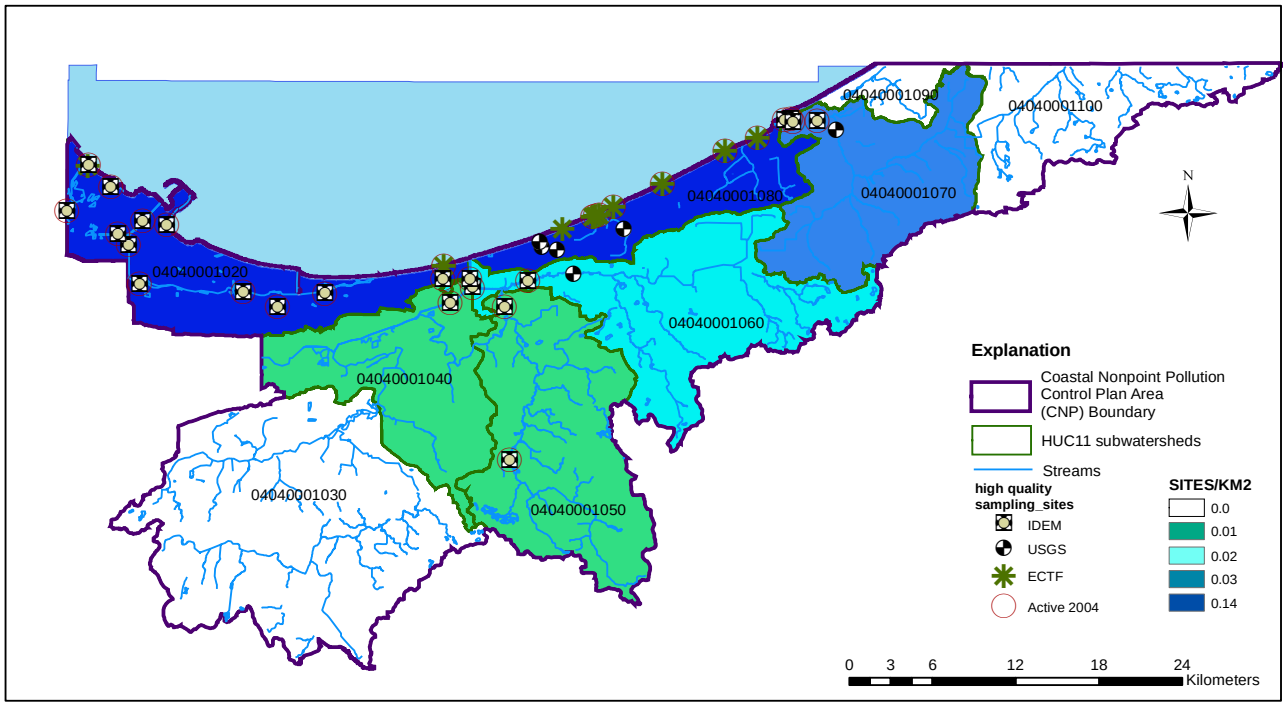


Figure 9. Map showing the density of high quality monitoring locations within the CNPCPA for each HUC11 subwatershed. The highest density subwatersheds are located near the Lake Michigan shoreline. Watersheds with no sites available for trend analysis are shown in white.

Nearest Neighbor Analysis

A nearest neighbor analysis was conducted on the entire set of sampling sites in the CNPCPA as well as the set of high-quality sites used in the trend analyses. The distance from each site to its nearest neighbor was measured, both for the entire data set as well as within each HUC11 subwatershed. The nearest neighbor statistic, R_n, is calculated using the following equation:

$$R_n = 2\bar{d}\sqrt{\frac{n}{A}} \qquad (1)$$

where $\bar{d}$ is the mean distance between points and their nearest neighbor for the area of interest, A is the area of the watershed, and n is the number of sites. Values of R_n indicate the arrangement of the points, with the following interpretation:

R_n	Indicated pattern
0	Clustered at same location
1	Random
2.15	Regularly spaced

When analyzed as a whole, the entire collection of water-quality monitoring sites in the CNPCPA had a nearest neighbor statistic of 0.48, whereas the high quality sites had an R_n value of 0.68, both indicating that the sites are clustered – and that the degree of clustering is greater for the entire set of monitoring stations. When the statistics were calculated for each HUC11 watershed (Table 8, and shown in Figure 10), the complete set of sites shows more clustering in the headwaters than in the trunk streams near the lake. The most regularly spaced monitoring stations are found in the Salt Creek subwatershed (04040001050); although the Salt Creek subwatershed only has two monitoring stations: one is located at the outlet and the other is located in the headwaters. Many stations are located in the Grand Calumet (04040001020) subwatershed, and those stations are regularly spaced. Additional discussion of station placement will continue later in this report, with attention given to monitoring potential pollution sources given current knowledge of existing water-quality trends, but these preliminary statistics attest to the fact that current and past sampling is concentrated along the major trunk streams and near the Lake Michigan shore.

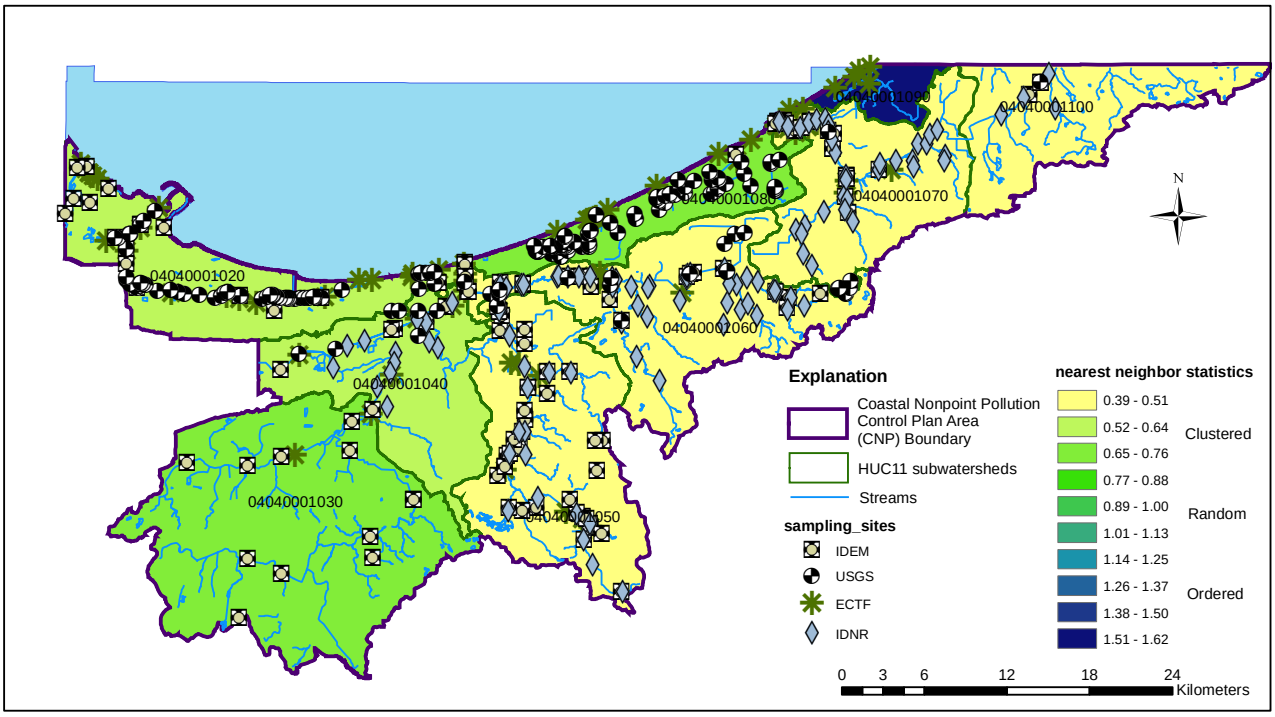
Table 8. Nearest neighbor analysis calculations for the entire set of monitoring sites (top) as well as the high quality sites used for the trend analysis (bottom).

Nearest Neighbor Analysis

Range
R_n=0 (all points are clustered)
R_n = 1 (points distributed at random)
R_n=2.15 (points have maximum spacing)

ALL SITES & ENTIRE CNP BOUNDARY AREA				
CNP Area	138.85 km^2			
n	456 sites			
mean dist	419.71 m			
R_n	0.48			
ALL SITES BY HUC11				
HUC_11	**Mean_dist**	**Area_m^2**	**Sites/HUC**	**R_n**
04040001020	339.30	145630855.19	94	0.55
04040001030	1721.75	321452993.10	15	0.74
04040001040	608.00	142212776.50	29	0.55
04040001050	402.00	200601104.64	63	0.45
04040001060	363.58	193686881.53	90	0.50
04040001070	293.25	153367899.05	70	0.40
04040001080	341.76	84084469.89	81	0.67
04040001090	1741.93	27618597.74	6	1.62
04040001100	745.36	119852407.52	8	0.39

HIGH QUALITY SITES & ENTIRE CNP BOUNDARY AREA				
CNP Area	138.85 km2			
n	38 sites			
mean dist	2053.30 m			
R_n	0.68			
HIGH QUALITY BY HUC11				
HUC_11	**Mean_dist**	**Area_m^2**	**Sites/HUC**	**R_n**
04040001020	1828.56	145630855.19	14	1.13
04040001030	---	321452993.10	0	---
04040001040	---	142212776.50	1	---
04040001050	11232.29	200601104.64	2	2.24
04040001060	1992.55	193686881.53	4	0.57
04040001070	808.69	153367899.05	5	0.29
04040001080	1345.01	84084469.89	12	1.02
04040001090	---	27618597.74	0	---
04040001100	---	119852407.52	0	---



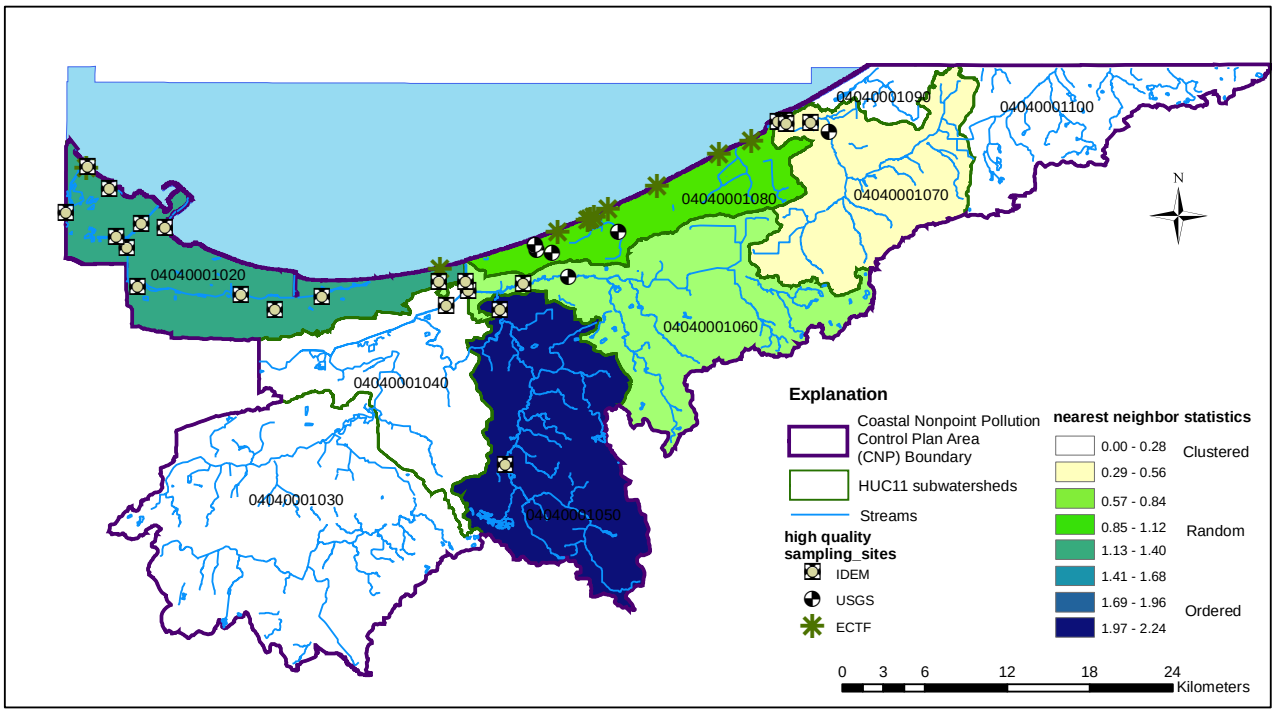


Figure 10. These maps show the results of nearest neighbor analysis, which was conducted to quantify the spatial distribution of all historical monitoring sites (top) and the high quality monitoring sites (bottom) used in the trend analyses. See text for discussion of the results.

Time trend analysis

In an effort to determine if, and how many, trends are evident in the data base, we subjected all data sets with more than 20 samples (conventional minimum for statistical analysis) to multiple regression analysis. In order to account for seasonal effects and temporal autocorrelation, we utilized a model of the following form:

$$Y_t = b_0 + b_1 T + b_2 S + \varrho e_{t-1} + \upsilon_t \qquad (2)$$

where Y_t is the value of the water quality constituent (e.g., *E. coli*, total iron, etc.) at time t, T is time in days since January 1, 1900, and S is a binary variable representing the season when the data was collected (S=0 during winter half-year and S=1 during summer half-year). A seasonal effect was included in the model to account for the fact that many water quality attributes have lower concentration during the cool season and higher concentrations during the warm season. Autocorrelated and random disturbances are represented by ϱe_{t-1} (autocorrelated error) and υ_t (random error) respectively. The model parameters b_0 (regression constant), b_1 and b_2 (regression coefficients), and ϱ (temporal autocorrelation coefficient) were estimated using generalized least-squares. Of particular importance is the value of b_2 which represents the direction and magnitude of any temporal trend in a water quality constituent. The significance of each computed b_2 value (as well as the other regression parameters) was evaluated using a standard *t*-test with a 95 percent confidence level.

The results of the statistical analyses are presented by station, along with other descriptive statistics (max, min, mean, standard deviation, coefficient of variation) in Appendix G. Figure 11 shows the locations of the high-quality sites used in the time-trend analysis, along with the number of analytes per station. Of the 1,079 water quality attributes that were analyzed for trend, 536 (50%) exhibited a statistically significant time trend. Of those, 278 (52%) were positive trends (*declining water quality*) and 258 (48%) were negative trends (*improving water quality*). Figure 12 shows the overall trends per station.

The detailed trend statistics for each water-quality attribute are presented in Appendix H. For the purpose of focusing the discussion of trends, the parameters were grouped into categories (see Table 9):

- Metals
- Nonmetals
- Pesticides
- *E. coli*

E. coli, a single parameter, was analyzed separately for trends because of its significance in surface-water pollution in the Lake Michigan Rim region. *E. coli* is the primary caused cited for the impairment of most water bodies draining into Lake Michigan in Indiana.

Table 9. Categorized parameters used in the trend analyses.

Metals	Nonmetals	Pesticides	Industrial Solvents/Pigments*
Aluminum Barium Chromium Nickel Copper Silver Zinc Cadmium Mercury Lead Iron Manganese	Fluoride Chloride Sulfate Nitrogen Arsenic Selenium Phosphorous Cyanide	4,4-DDD 4,4-DDT Atrazine Alachlor Acetochlor Aldrin Alpha-BHC Beta-BHC Delta-BHC Clomazone Chlorpyrifos Chlordane-alpha Chlordane-gamma Oxychlordane Deldrin Endosulfan I Endosulfan II Endosulfan-sulfate Endrin Heptachlor Heptachlor epoxide Hexachlorbenzene Lindane Methoxychlor Nonachlor	Di(2 Di(2 ethylhexy)adiphate Pentachlorophend Phenolics ethylhexy)adiphate

* not mapped or discussed, but analyzed for trend

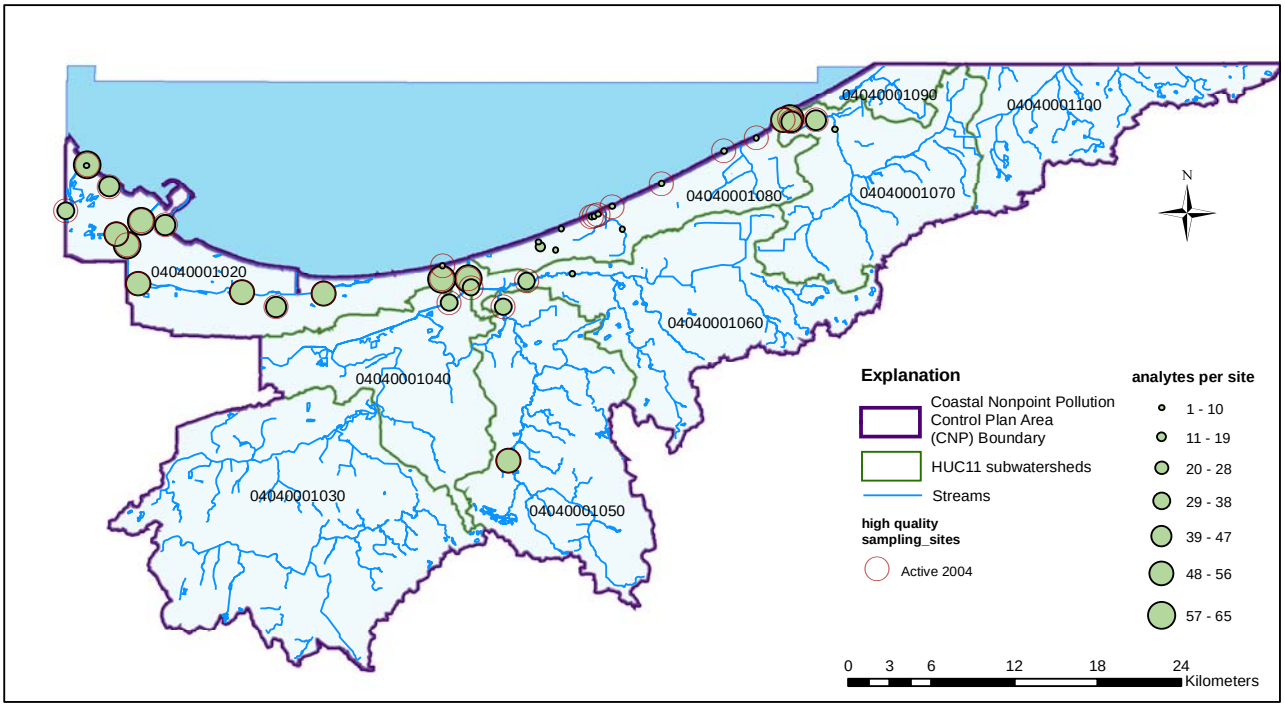


Figure 11. This figure shows the number of analytes (parameters) at each site that had sufficient data for a time-trend analysis. The larger symbols depict a large number of analytes at a given site. The smallest points are for *E. coli* Task Force monitoring locations where *E. coli* concentrations are the only monitored parameter of interest.

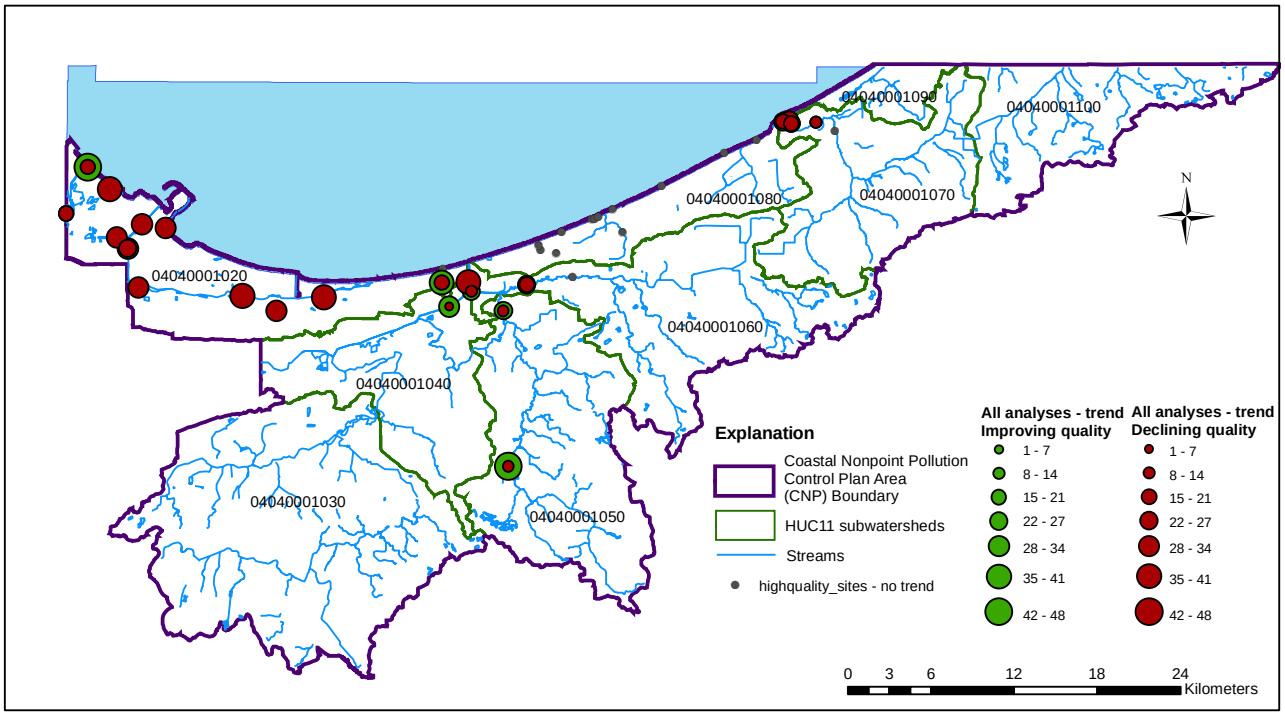


Figure 12. For the high-quality sites analyzed for temporal trends, this map shows the overall water-quality trend per station. For example, many stations had multiple parameters analyzed for trend, if most of the water-quality attributes had trends that suggested improving water quality, the station will be denoted above with a large green symbol.

Metals

The largest amount of data amenable to trend analysis are metals; about 12 elements (see Table 9) were routinely measured at 22 stations since 1999. Of these 143 (54%) exhibited a statistically significant negative trend and 61 (23%) exhibited a positive trend. As shown in Figure 13, most of the stations with statistically significant trends in metal concentrations are in the Grand Calumet River drainage, although there are a few near the outlets of Burns Ditch (Little Calumet River drainage) and Trail Creek. Most stations experienced both increasing and decreasing trends, but a few exhibited dominantly upward or downward trends. The greatest tendency for increasing metal concentrations occurred near the outlet of the Grand Calumet River and the greatest tendency for decreasing concentrations was near the eastern headwaters of that same drainage. The metal concentrations that exhibited downward trends (*improving water quality*) include chromium (at 19 stations), silver and lead (at 14 stations each), cadmium (at 13 stations), iron (at 12 stations), and zinc (at 11 stations). The metal concentrations that exhibited upward trends (*declining water quality*) include mercury (at 18 stations), barium (at 14 stations), and manganese (at 8 stations).

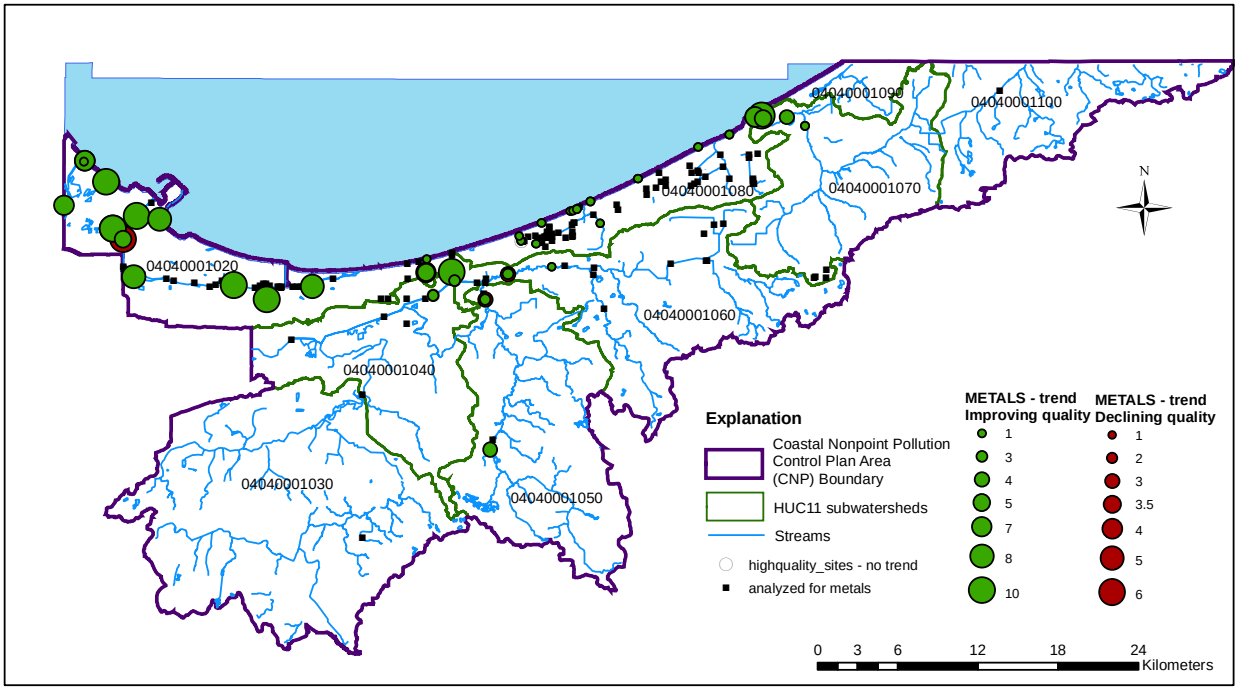


Figure 13. Statistically significant trends in water-quality attributes in the metal category (see Table 9 for specific parameters). Also shown are sites that had water-quality analyses for metals, but an insufficient amount of data for a trend analysis (small black dots).

Nonmetals

Eight non metallic inorganic contaminants, collected at the same 22 stations as the metals were also analyzed for trend, and 48 exhibited statistically significant negative trends, while 57 exhibited significant positive trends. The spatial pattern of stations with upward and downward trends (Figure 14) is very similar to that of the metals. Sulfate (at 5 stations), selenium and phosphorous (at 4 stations each) showed decreasing trends, whereas arsenic (at 17 stations), chloride (at 10 stations), and total nitrogen (at 8 stations) exhibited increasing trends over time.

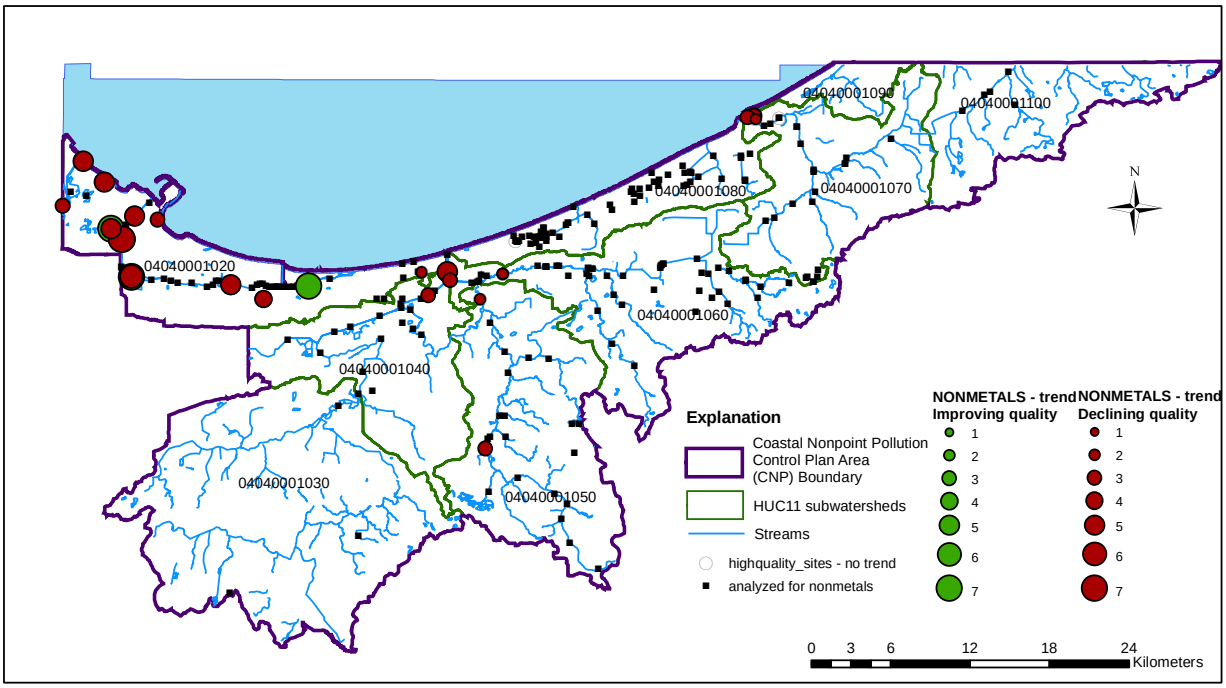


Figure 14. Statistically significant trends in water-quality attributes in the nonmetal category (see Table 9 for specific parameters). Also shown are sites that had water-quality analyses for nonmetals, but an insufficient amount of data for a trend analysis (small black dots); high-quality stations with no observable trends are denoted by a small circle around the symbol: ⦿

E. coli

Sufficient data (for trend analysis) of *E. coli* concentrations were available from 37 stations but only 6 stations exhibited statistically significant temporal trends; 2 were positive and the other 4 were negative. As shown in Figure 15, *E. coli* concentrations decreased in parts of the Grand Calumet River drainage and at the outlet of Trail Creek. Bacterial concentrations were increasing downdrift (eastward) of the outlet of Dunes Creek, but that drainage is scheduled for remediation in the near future so improvements should follow. There were statistically significant downward trends in total suspended solids at 5 stations and in turbidity at 4 stations. No statistically significant upward trends were observed in either of these sediment-related variables.

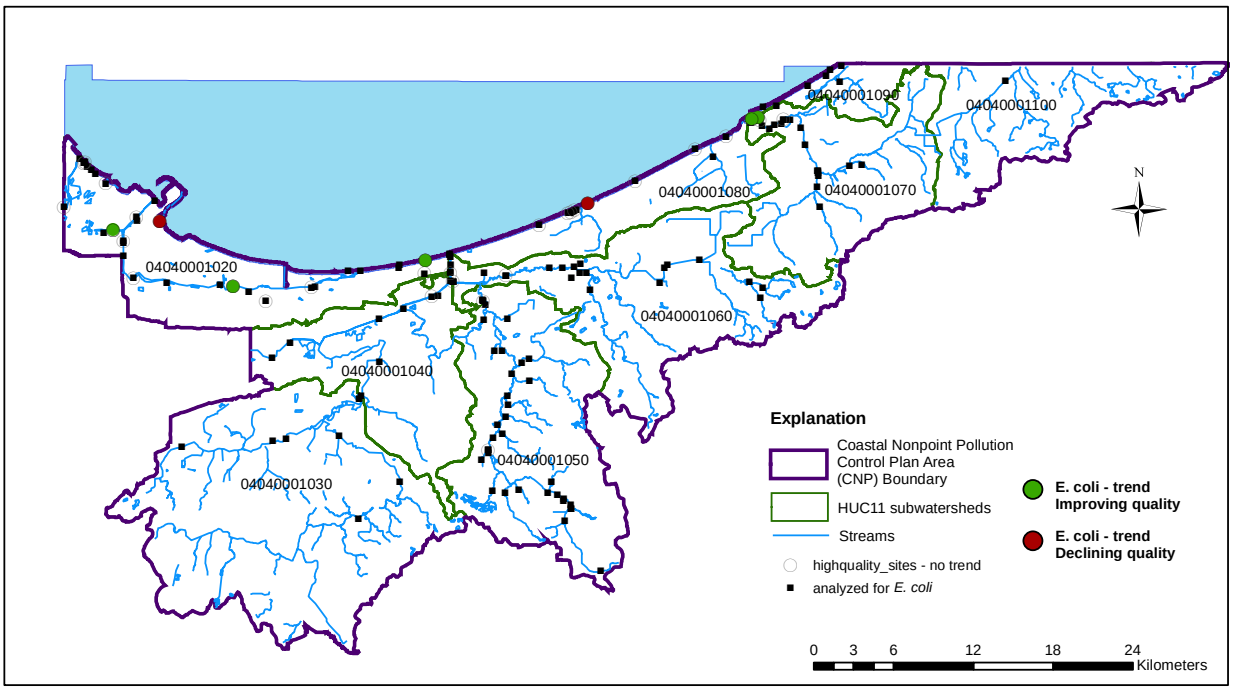


Figure 15. Map showing the locations of sites analyzed for *E. coli* as well as statistically significant trends. Three sites in the Grand Calumet subwatershed (04040001020) show a trend towards improving *E. coli* water-quality conditions. Many sites showed no trend, although many of the high-quality sites were analyzed for *E. coli*. High-quality stations with no observable trends are denoted by a small circle around the symbol: ⦿

Pesticides

Pesticides were routinely monitored at just 5 stations, although 26 different pesticide compounds were considered at each monitoring site. An analysis of all the available data sets revealed 62 statistically significant positive trends and only 14 significant negative trends. Interestingly, pesticide concentrations were decreasing at the outlet of the Little Calumet River drainage but increasing at the outlet of Trail Creek over the period of monitoring (Figure 16).

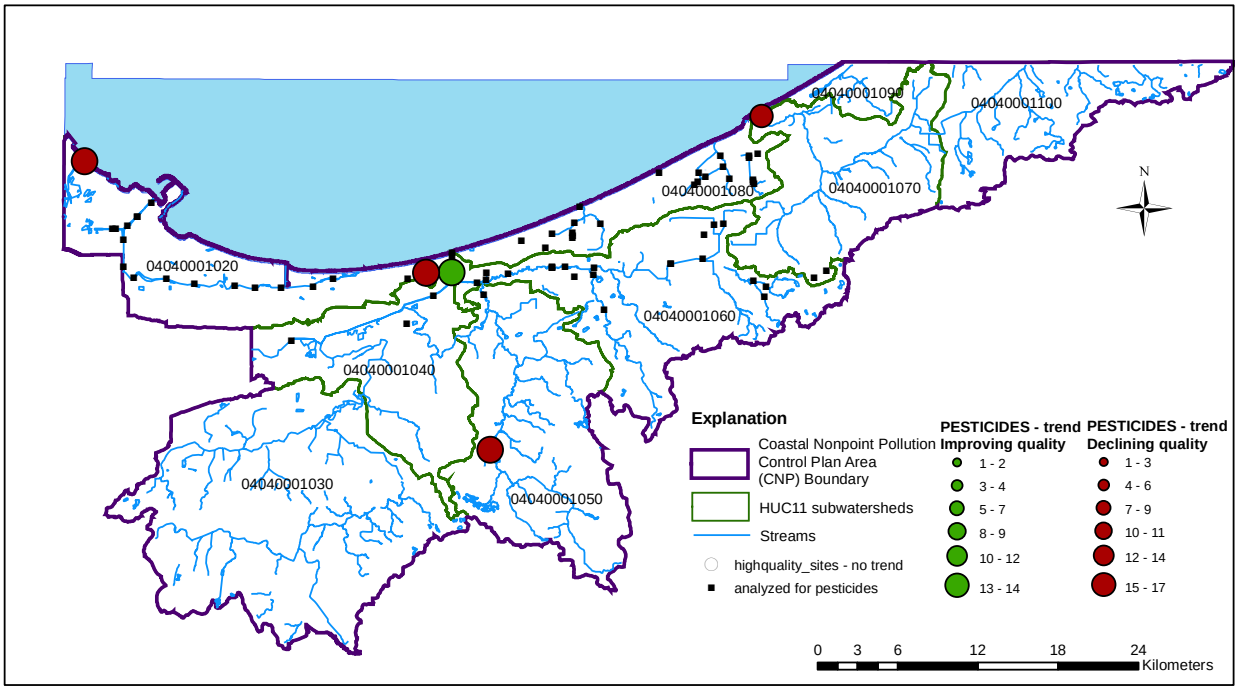


Figure 16. Statistically significant trends in water-quality attributes in the pesticides category (see Table 9 for specific parameters). Also shown are sites that had water-quality analyses for pesticides, but an insufficient amount of data for a trend analysis (small black dots).

Appendix I shows graphs for some selected constituents that showed a statistically significant trend toward improving or declining water quality. Figure 17 also shows some of the time-series variability for some constituents in six separate subwatersheds in the CNPCPA.

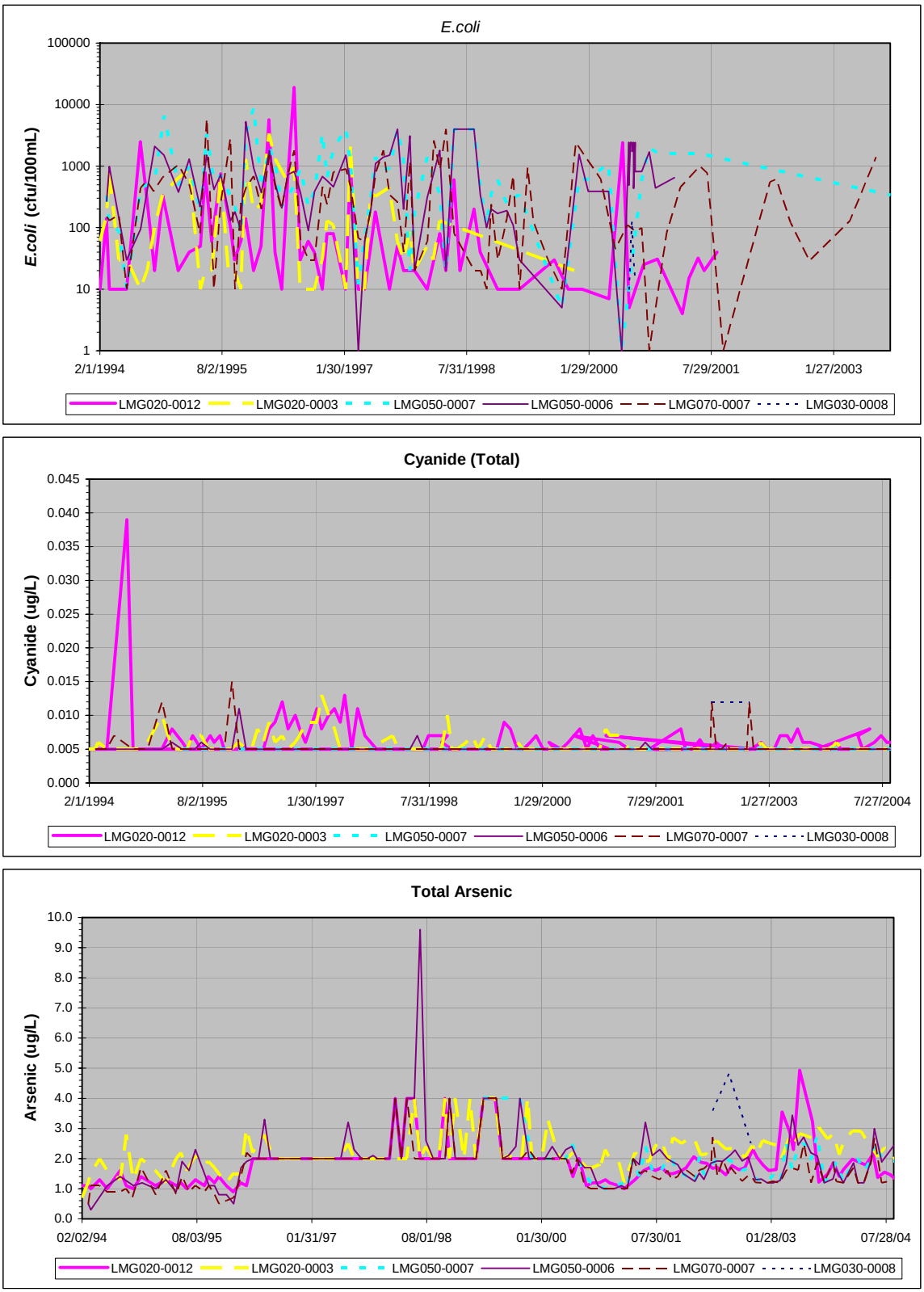


Figure 17. The graphs above show time-series variability for some constituents in six separate subwatersheds in the CNPCPA. These constituents have exceeded water quality standards in several subwatersheds in the basin.

Identification of pollution source areas

Figure 18 shows the streams and rivers in the CNPCPA that have been listed for impairment on the Clean Water Act Section 303d 2004 Impaired Water Bodies List. The color of the stream relates to the primary cause for listing. Most of the streams in the basin are listed for *E. coli* contamination. Other causes include cyanide, PCB contamination, and impaired biotic communities. Note the number of headwater tributary streams that have been listed for impairment, but are not routinely monitored.

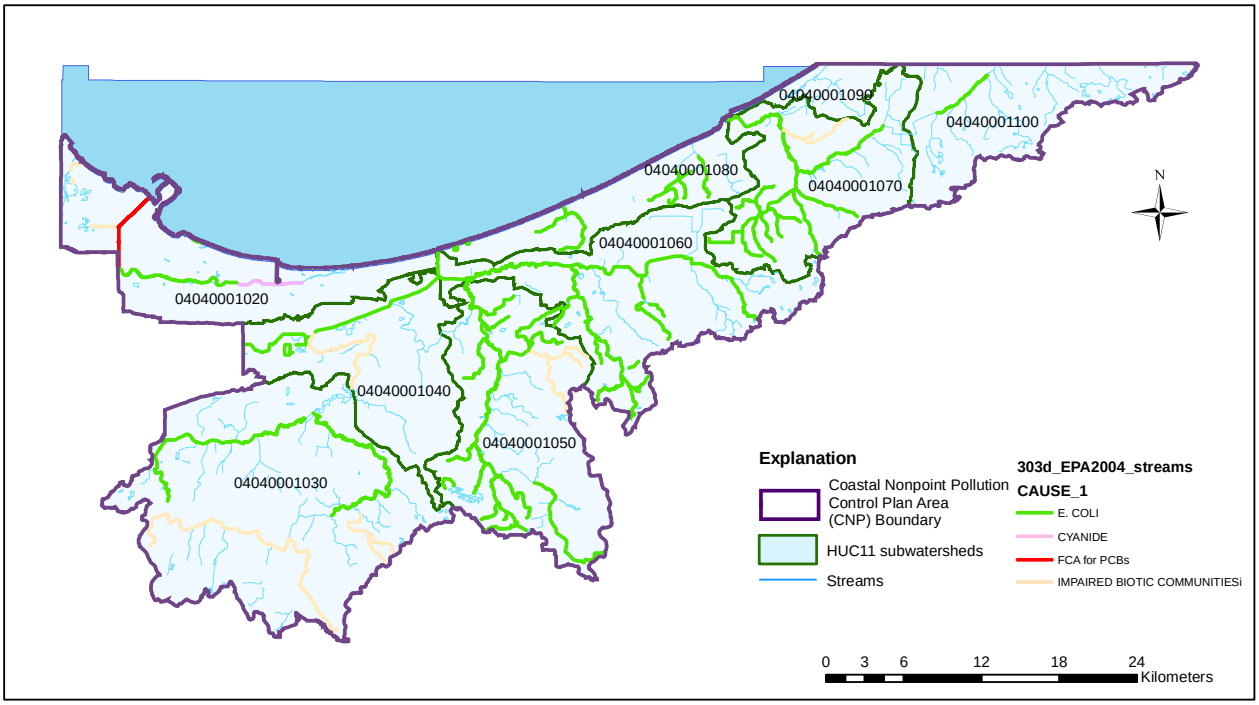


Figure 18. The map above shows the streams and rivers in the CNPCPA that have been listed for impairment on the Clean Water Act Section 303d 2004 Impaired Water Bodies List. The color of the stream relates to the primary cause for listing. Most of the streams in the basin are listed for *E. coli* contamination.

The relationship of landuse to contamination

In order to evaluate causes of water-quality impairment in the CNPCPA, an analysis of the landuse in the region was conducted. The way that land is used, or the materials that cover the land, affects the quality of the water that runs over the land surface as well as the water beneath the land surface. Therefore, in order to get an idea of the sources of contamination, the spatial distribution of landuse and land cover is important.The National Land Cover Dataset (NLCD), a U.S. Geological Survey dataset derived from classified Landsat imagery at 30-meter resolution (roughly 1:24,000 scale), was used as the starting point in the analysis. The NLCD was lumped into seven different landuse/land cover categories, and the dominant type of water-quality pollution potential of the landuse was assigned as shown in Table 10. Figure 19 shows the lumped landuse categories for the CNPCPA. Figure 20 is a bar chart showing the distribution of landuse categories in each HUC11 subwatershed. For example, the Grand Calumet subwatershed (04040001020) is dominated by the Urban category, which is expected to generate predominantly point source pollution. Appendix J gives a detailed listing of the landuse types for each subwatershed at the HUC14 scale.

Table 10. Landuse categories and associated pollution type.

Landuse/Land Cover category	Pollution Potential Type
Open water	Neutral
Urban	Point source
Low density residential	Nonpoint source
Sand/bare rock/quarries	Neutral
Agriculture	Nonpoint source
Forest	Neutral
Wetlands	Neutral

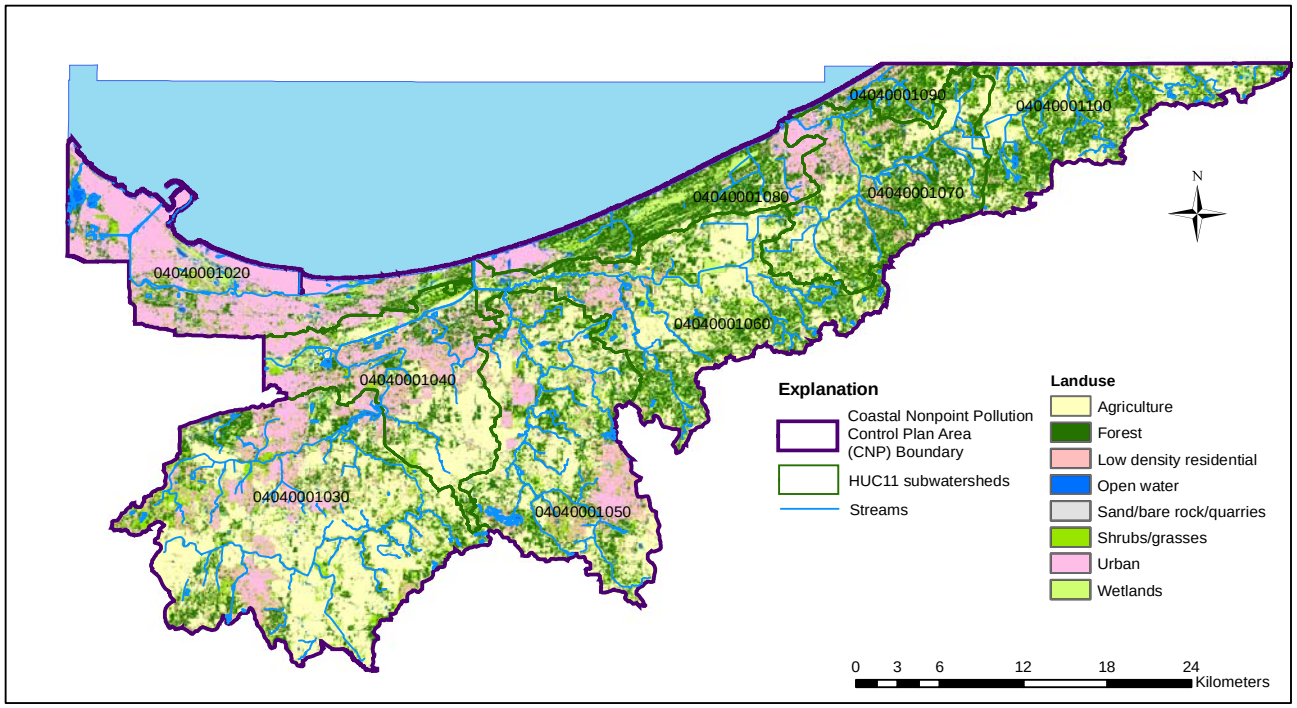


Figure 19. Landuse categories used in the analysis of potential sources of contamination in the CNPCPA. Table 10 shows the assumed types of contamination types associated with each landuse category.

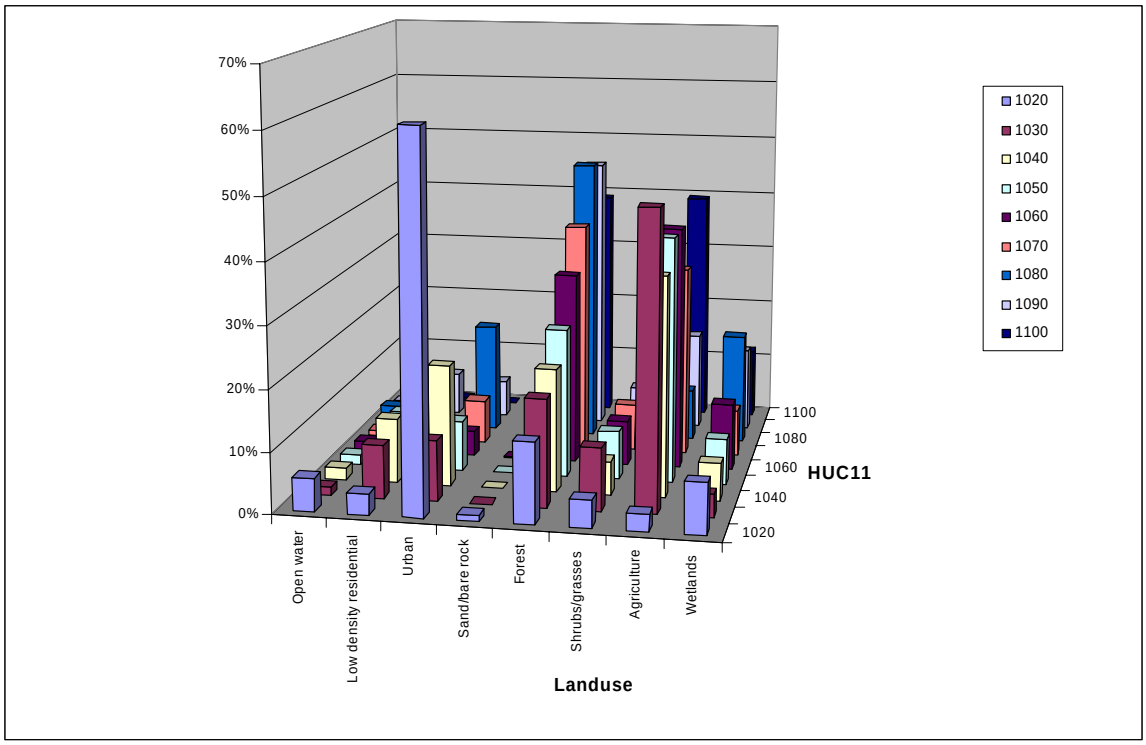


Figure 20. Quantified distribution of landuse categories for each HUC11 subwatershed. The distribution of landuse categories in each subwatershed can suggest the kinds of pollution that might be expected in the watershed. The contamination sources present in various watersheds should control the distribution of water-quality monitoring and kinds of analyses performed at each monitoring site.

Nonpoint source pollution

As shown in Table 10, nonpoint source pollution in the CNPCPA is thought to be influenced by agriculture and low-density residential landuse practices. Pesticides, fertilizers, and nutrients added to agricultural crops, livestock, and working the land can all influence water quality. Low-density residential landuse practices such as overapplication of fertilizers on lawns, runoff from paved streets, and the use of onsite septic systems can also influence water quality. The distribution of these landuse types are shown in Figure 21. Because the locations of septic systems are poorly known, a proxy (substitute) has been used in Figure 21 to represent the suggested locations of the highest densities of septic systems: domestic private water wells. The locations of water wells are much better known than septic systems, and they usually are located on the same properties – just as city water lines and city sewers are usually associated.

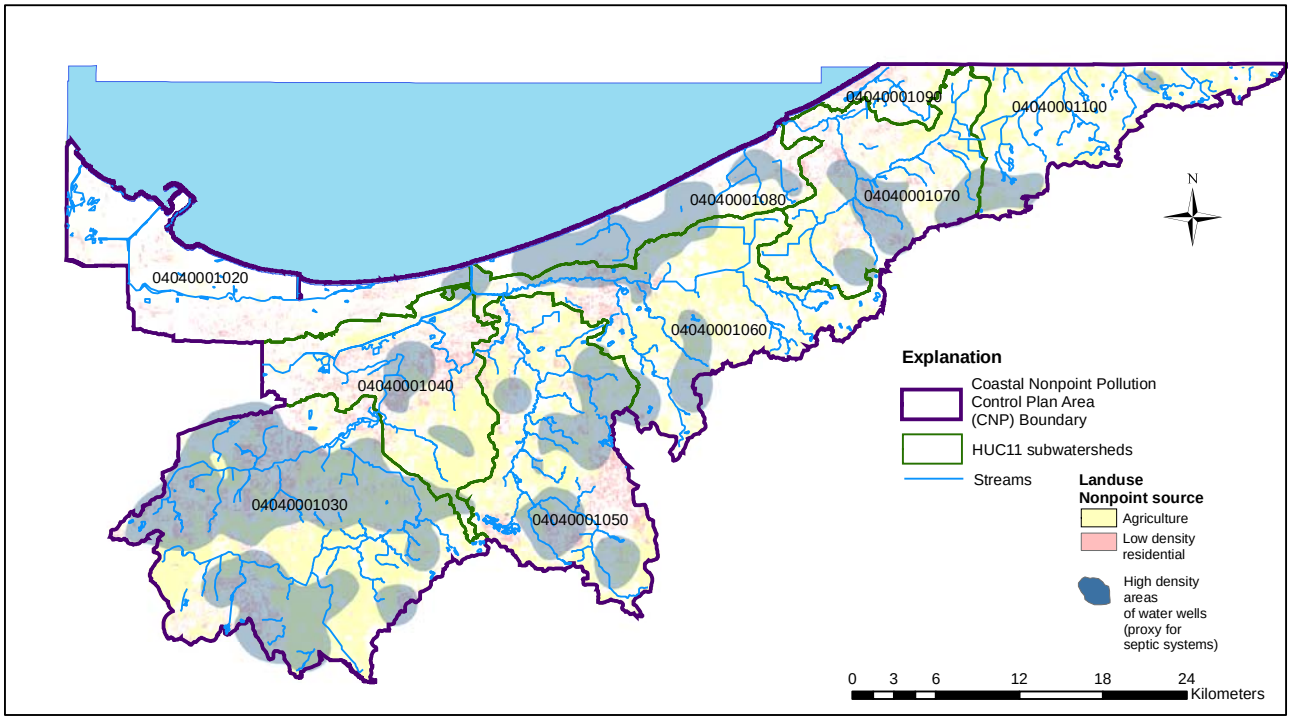


Figure 21. Locations of potential nonpoint source pollution in the CNPCPA. The Deep River subwatershed (HUC11 04040001030) is dominated by nonpoint source areas.

Point source pollution

Industrial, commercial, high-density residential, and urban areas – in addition to transportation corridors – are thought to be potential point sources of water-quality contamination. The shoreline of the Lake Michigan Rim in Indiana has some high density urban areas, which are potential sources of contamination. Figure 22 shows known locations of point-source contamination (many programs and activities regulated by IDEM and USEPA) as well as landuse categories that generate point-source pollution (lumped in this map as "urban").

Each landuse category was reclassified to its potential contamination source type, as shown in Figure 23. Figure 24 shows the proportion of nonpoint source areas to point source areas by 11-digit HUC subwatershed. Most of the headwater tributary watersheds are dominated by nonpoint source areas, whereas the trunk streams near the Lake Michigan coastline are dominated by point source areas. The intensive monitoring near the coast might be adequately monitoring point sources, but probably insufficient for identifying major nonpoint source areas of water-quality pollution.

Figure 25 shows the spatial distribution of Nitrogen (Nitrate+Nitrite) values measured in 2004 over the map of nonpoint source areas. This is shown as an example of how the spatial distribution of water-quality analysis results can be used in conjunction with knowledge of potential contamination source areas to evaluate the cause/effect of landuse. Several of the higher nitrogen values are located in the Grand Calumet subwatershed (HUC11 04040001020); however, other moderately high values are downstream of nonpoint source areas.

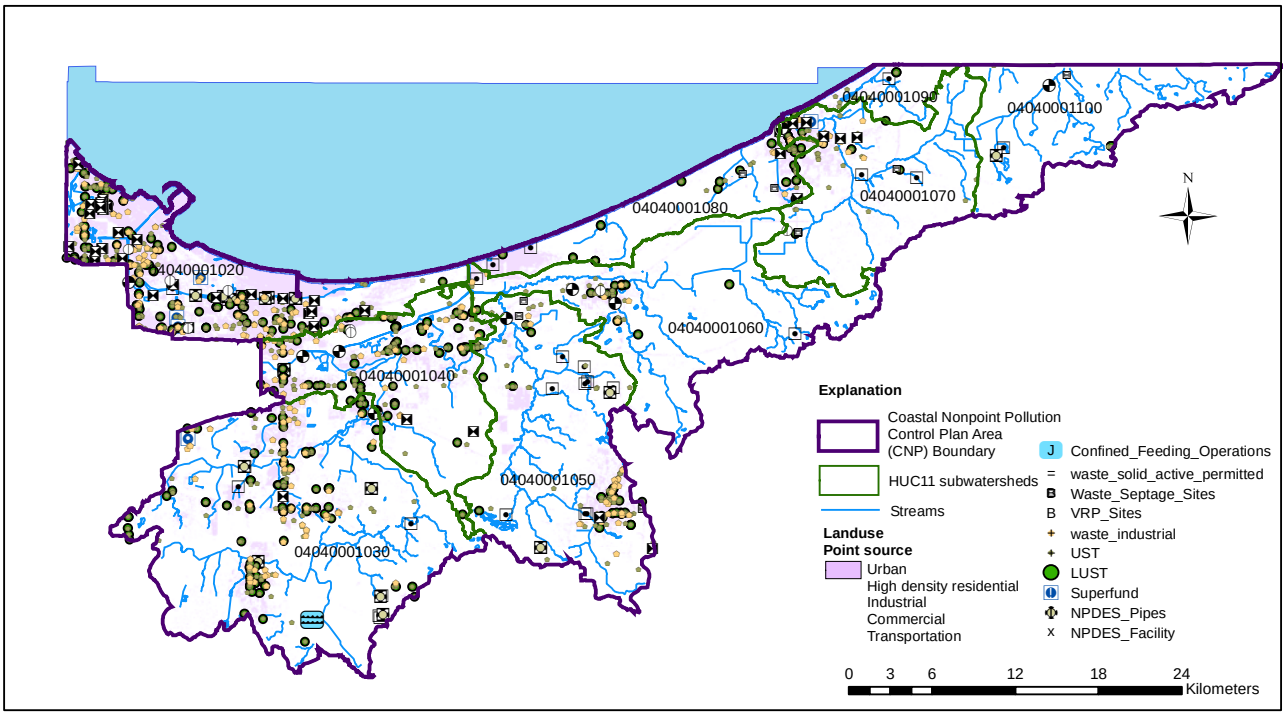


Figure 22. Locations of potential point source pollution in the CNPCPA. The Grand Calumet (HUC11 04040001020) and Trail Creek (HUC11 04040001080) subwatersheds are dominated by point source areas.

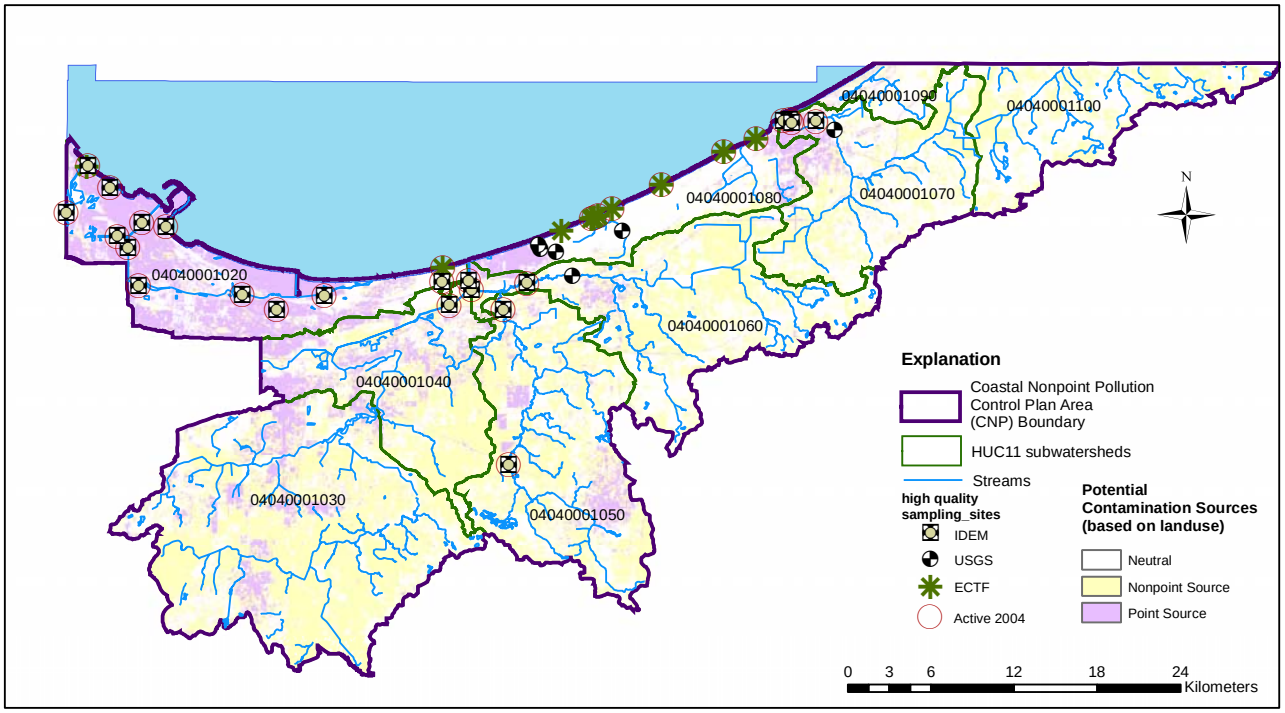


Figure 23. The landuse categores were reclassified to show the distribution of potential contamination source types in the CNPCPA; the concentration of purple near the coast shows the dominance of point source areas; the headwater tributary subwatersheds have more nonpoint source areas.

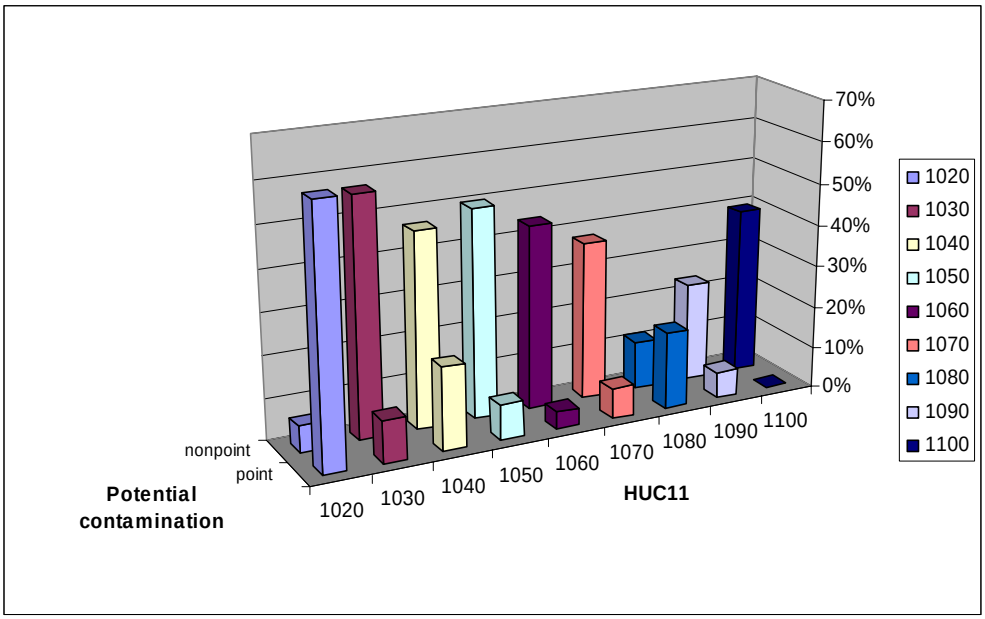


Figure 24. Proportion of potential contamination area suggested by landuse and land cover. The remaining portion of the landuse in each subwatershed is made up of neutral land-cover categories such as open water, forest, and wetlands.

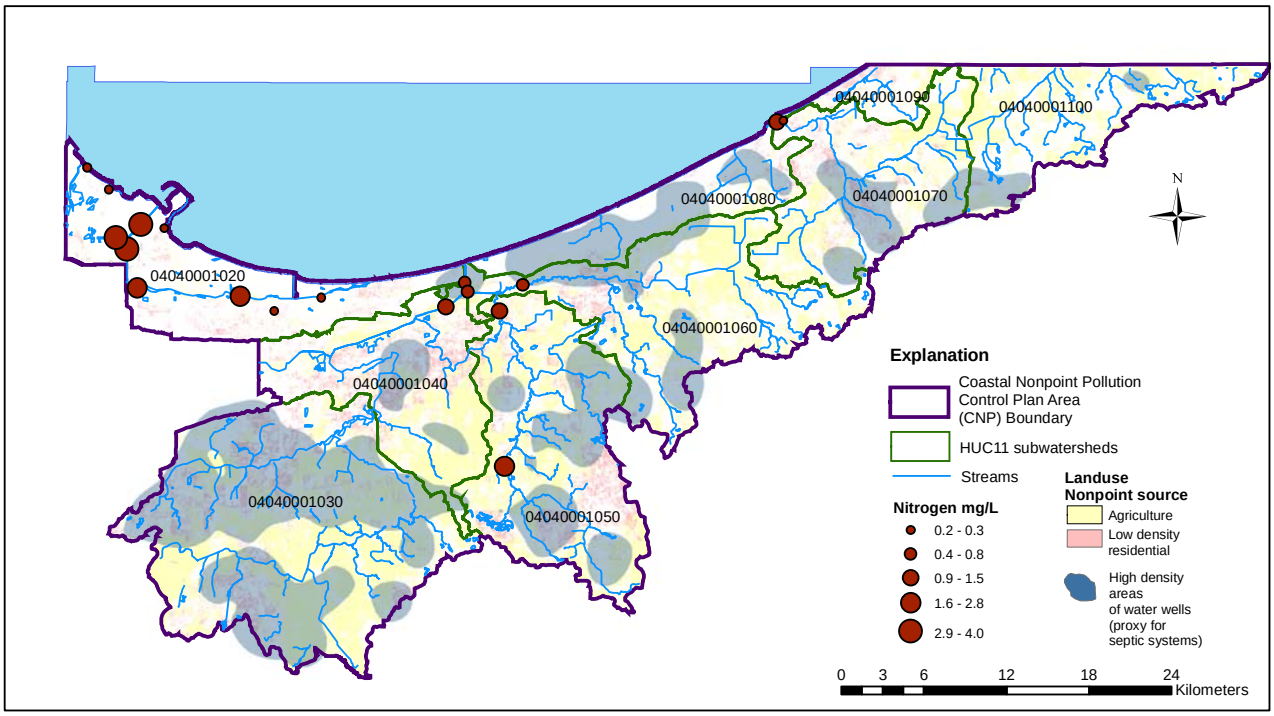


Figure 25. The map above shows the spatial distribution for Nitrogen (Nitrate+Nitrite) values measured at IDEM sites in 2004 over a map showing nonpoint sources in the CNPCPA. Several of the higher nitrogen values are located in the Grand Calumet subwatershed; however, other moderately high values are downstream of nonpoint source areas.

VI. Trend-monitoring plan

The results of this investigation indicate that the main trunk streams that discharge into Lake Michigan from Indiana are being sufficiently monitored for trend analysis, and numerous trends (both positive and negative) have been revealed. However, it is also evident from the temporal and spatial analysis that the current monitoring network is insufficient for source identification because of a lack of upstream stations that are earmarked for monitoring point and nonpoint pollution source areas. This should be made a priority of the trend-monitoring plan for the CNPCPA.

To aid the process of prioritizing additional reaches for water-quality trend monitoring, a decision tree (Figure 26) has been developed. The decision tree can be used to aid in the selection of new monitoring sites as well as to identify sites that represent an opportunity for reduction in sampling efforts (either dismantling a site, reducing sampling frequency, or removing particular parameters from the analysis suite) when funding resources are limited. Below, a few examples are presented to demonstrate the decision tree.

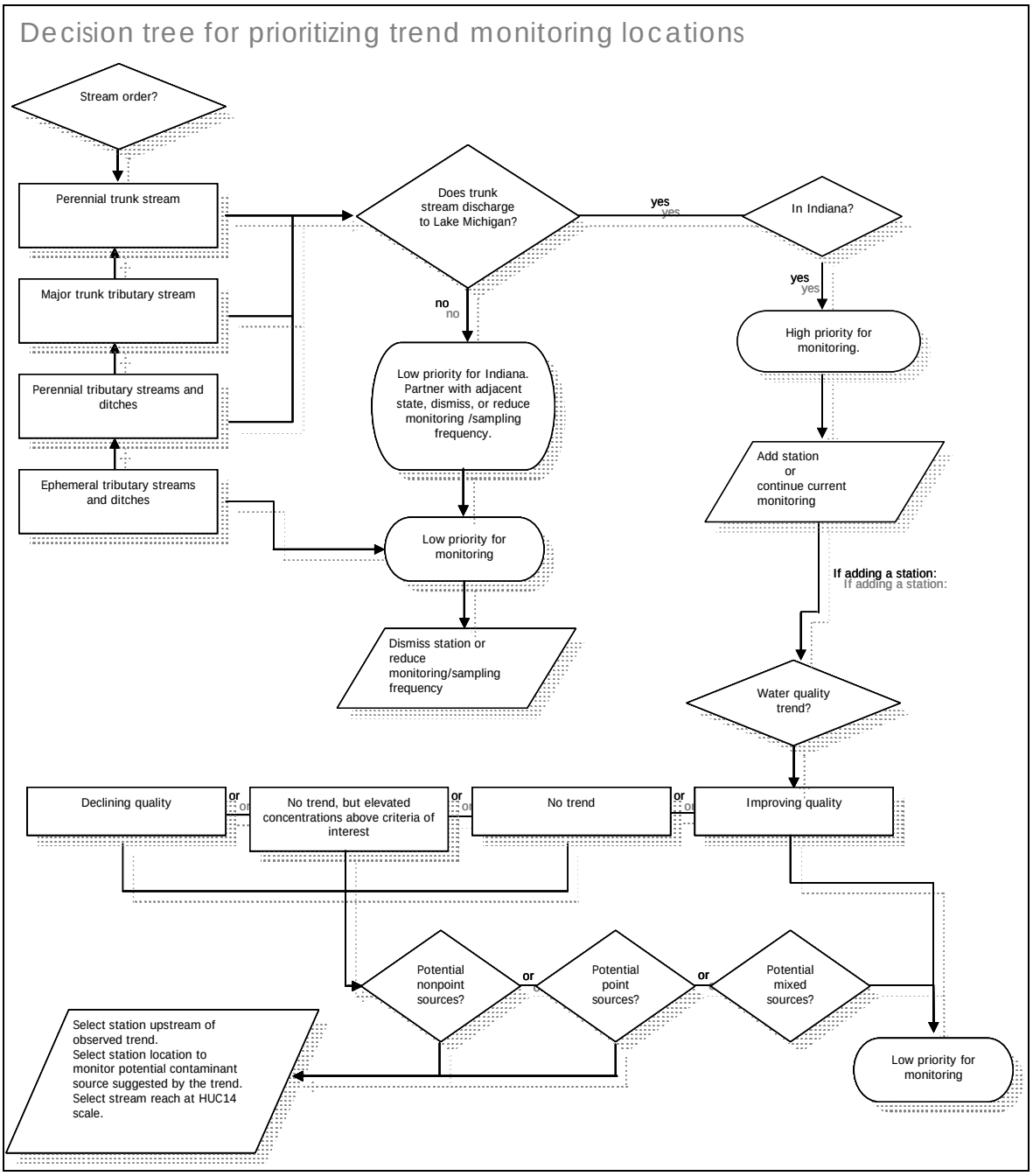


Figure 26. Decision tree for prioritizing trend-monitoring locations. The chart also provides guidance on identifying appropriate monitoring locations based on existing water-quality data.

Example 1: Little Calumet River

The Little Calumet River watershed is comprised of several smaller watersheds (HUC11: 04040001040-Burns Ditch, 04040001050-Salt Creek, and 04040001060-Little Calumet River) having a variety of landuse and pollution sources. Using the trend-monitoring plan decision tree, the Little Calumet River is a priority for trend monitoring because it discharges directly into Lake Michigan in Indiana. In addition, it has two contributing trunk tributary streams, which are being monitored (Figure 8). To assess whether upstream monitoring should be in place for trend monitoring, we consult Figure 12 to identify any observed trends. Both trunk tributaries exhibit trends but the west branch exhibits mostly improving trends while the east branch is experiencing trends of declining water quality. Therefore, an initial prioritization would be to ensure that monitoring on the east branch of the Little Calumet River is maintained, and upstream contributing watersheds to that branch should be monitored to identify the effects of probable source areas. In order to prioritize upstream monitoring sites, Figures 21, 22, and 23 can be consulted to identify the potential contaminant source types in the tributary drainages. HUC14 subwatershed 04040001050010, Salt Creek – Sagers Lake/Valparaiso (Figure 3) is in the extreme upstream headwaters of the beast branch but it should be dismissed as an upstream monitoring site because it has mixed potential contaminant sources that would make interpretation of any observed trends difficult. In contrast, HUC14 subwatersheds: 04040001060030 (Sand/Coffee Creeks), 04040001050040 (Damon Run), or 04040001070010 (Reynolds Creek) are dominated by potential nonpoint source areas so selecting monitoring points in one of these drainages would be more useful to the watershed monitoring plan. The final selection of a monitoring location(s) would then be governed by access constraints and other logistical issues.

Example 2: Dunes Creek

Dunes Creek (HUC11: 04040001080) is a perennial trunk stream that discharges into Lake Michigan in Indiana, and therefore, it should be a priority for monitoring. Currently, Dunes Creek is being monitored sporadically by the *E. coli* Task Force and only for bacterial contamination. This represents an opportunity to develop interagency partnerships by sharing data to more effectively monitor for trends and with a minimal additional resource investment.

Example 3: Trail Creek

Trail Creek (HUC11: 04040001070) is one of the three major trunk stream discharging into Lake Michigan from Indiana and thus is a priority for trend monitoring. As shown in Figure 28 there are several stations along the lower trunk stream so this may be an example of redundancy that could be reduced by dismissing one or more of the redundant stations (e.g., LMG070-004, LMG070-008, LMG070-005) and reallocating resources to new stations that would yield more useful data. Upstream of the trunk stream of Trail Creek, there are two major trunk tributary streams that are not being monitored. Because Trail Creek is a priority drainage for trend monitoring that has exhibited some trends of declining water quality, it is necessary to know if one or both of the trunk tributaries are also exhibiting water-quality trends. Therefore, it should be a priority to establish new monitoring stations on each of the major trunk tributary streams flowing into Trail Creek. Additional upstream stations would then be implemented in a tiered or phased manner; but only after a sufficient amount of data have been collected at the new trunk tributary stations to be able to statistically evaluate the presence or absence of trends (e.g., a minimum of quarterly sampling for five years). The results of the trend analyses would then guide the decision of whether and where further monitoring in the headwater tributaries would be necessary.

Example 4: Grand Calumet River

The Grand Calumet River watershed (HUC11: 04040001020) is a conduit for draining many wetlands along the western end of the Lake Rim region and does not have a typical branching network with many contributing tributaries. However, the decision tree is still useful for evaluating the status and needs of its monitoring network. We consider the current monitoring network along the Grand Calumet River to be an example of redundant monitoring. Methodically working through the decision tree, we find that the Grand Calumet River discharges into Lake Michigan in Indiana, so it is a high priority for monitoring. The main trunk already has a monitoring station that exhibits statistically significant trends. There are two main contributing branches to the Grand Calumet River, and both have monitoring stations that are showing water-quality trends, most of which suggest declining water quality. However, the east branch has three additional monitoring stations at different places along the same main stream – all of which show basically the same tendencies in trend (see Figure 12). This east trunk tributary stream might be a good place to make choices for station dismissal (e.g., IDEM station numbers: LMG020-0012, LMG020-0001, LMG020-0009) if resources are needed elsewhere.

VII. Recommendations

The current monitoring network used by IDEM and supplemented by the ECTF has been successfully used to for identify water-quality trends in the three main rivers in the CNPCPA: Grand Calumet River, Little Calumet River, and Trail Creek. Source areas of the contaminants, however, are still poorly understood in much of the CNPCPA and many of the upstream stations monitored by the ECTF have been disbanded. Therefore, it is recommended that the next step in water-quality monitoring would be to expand the network up drainage, possibly by dismissing redundant stations and reallocating those resources to new stations. Of particular concern is the need for fixed stations in the headwater tributary basins where potential source areas of nonpoint pollution are known to exist. Currently, such source areas are not being monitored; only their cumulative effects are being observed at the downstream stations. A medical analogy might involve a blood sample that suggests that cancer exists in the system, but does not reveal the location of the tumor. If an understanding of the causes of pollution – especially nonpoint pollution – is desired, potential upstream contaminant sources should be considered. The decision tree developed for this project should provide the basis for selection of new trend monitoring stations.

Specific recommendations

- Follow the trend-monitoring plan decision tree to identify redundant monitoring stations in trunk streams that could be dismissed, and to identify additional needed upstream tributary monitoring locations that would provide data directly from nonpoint pollution source areas.
- Partner with other organizations to share long-term data sets so that trend analyses can incorporate all available data. This study has revealed the usefulness of data collected by the ECTF, and it is likely that several other datasets could be merged into (or used in conjunction with) the IDEM (AIMS) database to improve its overall usefulness. This type of partnering will benefit all of the agencies that have jurisdiction in the CNPCPA.
- Require IDEM-funded (and/or U.S. EPA) water-quality analyses to adhere to specific quality standards; provide the funded entity with a formatted template (database or spreadsheet) into which their water-quality analyses should be entered; require that the database be submitted to IDEM in digital form along with the GPS locations of the monitoring locations. Incorporate the monitoring locations and water quality analyses into the IDEM (AIMS) database. In addition, if it meets the goals of the original grant program, a suggested investment of IDEM/US.EPA resources would be to give priority funding to long-term (i.e., 5+ years) monitoring efforts in the same location (or along the same stream reach), as the data will serve both the project and the IDEM trend monitoring program. As an example, the currently funded (IDEM-supported) project in Coffee Creek is yielding data that would be very useful for the CNPCPA water-quality database. They currently have two years of monitoring data at eight stations along Coffee Creek, and additional years would yield sufficient data for a trend analysis without IDEM having to establish a fixed station in that watershed to evaluate the status of its water quality.
- Headwaters streams drain into an adjacent state prior to discharging into Lake Michigan should have a lower priority to Indiana than streams that discharge into Lake Michigan from Indiana. However, data collected in the headwaters of drainages such as the Galena River may be of great value but only after some sort of partnership with the adjoining state (Michigan in this case) can be developed. Only by employing a fully tired

monitoring network can we gain a complete understanding of the nature and causes of water quality problems in the Lake Michigan basin. Cooperative efforts between states and agencies will foster such goals.

- Discharge should always be measured when water-quality samples are taken to ensure that accurate loading calculations can be made. When establishing future monitoring stations, the location of USGS stream gaging stations should be taken into consideration because those stations provide our most complete knowledge of runoff trends in the CNPCPA.
- Hydrological modeling can provide insights into process and mechanisms driving some of the observed trends. The data generated by calibrated models allow trends to be identified that are not revealed in field measurements; especially in cases with multiple sources or complex hydrology. In the U.S. EPA document entitled, "Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters" (specifically Chapter 8: Monitoring and Tracking Techniques to Accompany Management Measures), it is noted that "knowledge of the hydrology of a system is critical to the design of successful monitoring programs." Therefore, plans for watershed model development should be part of the IDEM long-term water-quality planning effort.

VIII. References

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APPENDICES

APPENDIX A. PERIOD OF RECORD FOR SAMPLING SITES

APPENDIX B. 2004 IDEM/AIMS MONITORING DATA

APPENDIX C. 2004 USGS MONITORING DATA

APPENDIX D. 2004 ECTF MONITORING DATA

APPENDIX E. 2004 IDNR FISHERIES MONITORING DATA

APPENDIX F. PARAMETERS AVAILABLE FOR ANALYSIS

APPENDIX G. DESCRIPTIVE STATISTICS

APPENDIX H. TIME TREND ANALYSIS STATISTICS

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APPENDIX A
PERIOD OF RECORD FOR SAMPLING SITES

Agency	Station ID_1	Station ID_2	From	To	Years	# Events	Average Param	UTMX_83	UTMY_83	High Quality	Active
ECTF	A01	103a	1997	2000	3.1	56	2	475163.69	4606367.50		
ECTF	A02	102	1997	2000	3.1	25	4	470198.47	4605996.50		
ECTF	A03	103	1997	2000	3.0	54	2	468936.25	4606233.00		
ECTF	A04	104	1997	2000	3.1	56	2	468023.31	4606511.50		
ECTF	A05	105	1997	2000	3.1	55	2	464017.25	4606675.00		
ECTF	A08	no_id_provided	1997	1998	0.7	16	4	460767.69	4609728.00		
ECTF	A09	no_id_provided	1997	1998	0.8	24	4	459291.91	4610458.50		
ECTF	A10	110	1997	2000	3.0	83	1	461807.19	4611384.50		
ECTF	A11	111	1997	2000	3.0	68	1	463106.19	4612838.00		
ECTF	A13	113	1997	2003	5.8	75	1	457794.86	4615672.02	X	
ECTF	A14	114	1997	2000	3.0	68	1	458678.94	4614900.50		
ECTF	C01	no_id_provided	1997	1998	0.8	23	3	494396.75	4589746.50		
ECTF	C02	no_id_provided	1997	1998	0.8	23	3	493802.78	4590354.00		
ECTF	C03	no_id_provided	1997	1998	0.8	23	4	492627.88	4590890.00		
ECTF	C04	no_id_provided	1997	1998	0.8	24	1	488207.13	4593931.50		
ECTF	C05	no_id_provided	1997	1998	0.8	24	1	490697.44	4600678.50		
ECTF	C06	no_id_provided	1997	1998	0.8	24	1	488638.88	4601607.00		
ECTF	C07	no_id_provided	1997	1998	0.8	24	1	489204.34	4601577.00		
ECTF	C08	no_id_provided	1997	1998	0.8	24	1	487729.97	4605410.00		
ECTF	D01	209	1997	1999	2.1	73	2	501048.84	4606715.00		
ECTF	D02	210	1997	1998	1.1	38	2	495549.50	4607439.50		
ECTF	D03	212	1997	1998	1.1	37	2	495027.03	4607468.50		
ECTF	D04	213	1997	1999	2.1	73	2	494635.84	4607931.00		
ECTF	D05	no_id_provided	1997	1998	0.8	25	4	495099.94	4608090.00		
ECTF	D06	211	1997	1999	2.1	73	2	472983.06	4594970.00		
ECTF	E01	216	1997	2000	3.1	56	2	478493.31	4597987.00		
ECTF	E02	no_id_provided	1997	1998	0.8	25	4	479995.34	4600744.00		
ECTF	E03	no_id_provided	1997	1998	0.8	20	4	473295.09	4602196.50		
ECTF	E04	no_id_provided	1997	1998	0.8	20	4	481805.97	4604772.00		
ECTF	E05	no_id_provided	1997	1998	0.8	20	4	484404.88	4605734.50		
ECTF	E06	no_id_provided	1997	1998	0.8	25	3	485306.69	4606817.00		
ECTF	F01	no_id_provided	1997	1998	0.8	25	4	485322.72	4607510.50		
ECTF	F02	223	1997	2002	4.8	141	1	485338.44	4608045.50		
ECTF	F03	no_id_provided	1997	1998	0.8	25	4	485238.19	4608754.00		
ECTF	F04	225	1997	2002	4.7	117	1	481493.91	4608025.50		
ECTF	F05	226	1997	2004	6.9	248	1	483453.47	4608367.50	X	X
ECTF	G01	no_id_provided	1997	1998	0.8	22	4	516227.06	4615580.50		
ECTF	G02	no_id_provided	1997	1998	0.8	25	4	512877.94	4613868.00		
ECTF	G03	no_id_provided	1997	1998	0.8	25	4	512963.94	4614764.50		
ECTF	G04	404	1997	2000	3.0	78	1	510824.78	4618953.00		
ECTF	G05	405	1997	2000	3.0	78	1	510186.16	4618663.00		
ECTF	G06	409	1997	2001	4.1	112	1	509272.88	4618242.50		
ECTF	G07	407	1997	2000	3.0	78	1	508735.66	4618487.50		
ECTF	G08	408	1997	2001	4.1	113	1	507937.00	4618746.50		
ECTF	G09	no_id_provided	1997	1998	0.8	12	4	514575.78	4621778.50		
ECTF	J01	301	1997	2002	4.9	127	1	494790.19	4612167.00		
ECTF	J02	302	1997	2002	4.9	128	1	494476.97	4612048.50		
ECTF	J03	303	1997	2003	5.9	145	1	491994.75	4611053.50	X	
ECTF	J04	304	1997	2004	6.9	218	1	494142.75	4611925.50	X	X
ECTF	J05	305	1997	2004	6.9	212	1	494346.06	4611991.00	X	X
ECTF	J06	306	1997	2004	6.9	208	1	494621.84	4612120.50	X	X
ECTF	J08	308	1997	2002	4.9	120	1	505036.75	4616185.50		
ECTF	J09	309	1997	2004	6.9	217	1	495646.75	4612672.00	X	X
ECTF	J10	310	1997	2004	6.9	176	1	503686.81	4616734.00	X	X
ECTF	J11	311	1997	2004	6.9	184	1	506022.03	4617675.50	X	X
ECTF	Z1	no_id_provided	2001	2004	3.3	140	1	477633.21	4607570.80		X
ECTF	Z10	no_id_provided	1999	2003	4.4	64	1	513864.62	4622713.43		
ECTF	Z11	no_id_provided	2003	2003	0.1	4	1	457478.21	4616009.99		
ECTF	Z12	no_id_provided	2003	2003	0.0	6	1	507891.47	4618698.42		
ECTF	Z13	no_id_provided	2003	2003	0.3	32	1	509809.17	4619960.15		
ECTF	Z14	no_id_provided	2003	2003	0.3	17	1	481453.70	4607810.00		
ECTF	Z15	no_id_provided	2003	2003	0.2	9	1	458082.04	4615371.00		
ECTF	Z16	no_id_provided	2003	2003	0.2	9	1	458056.87	4615368.56		
ECTF	Z17	no_id_provided	2003	2003	0.2	10	1	458361.00	4615170.00		
ECTF	Z2	no_id_provided	2001	2004	3.3	139	1	478571.24	4607632.23		X
ECTF	Z4	307	1999	2004	5.4	204	1	499183.94	4614370.81	X	X
ECTF	Z6	413	1999	2003	4.2	120	1	508824.21	4619915.45		
ECTF	Z7	414	1999	2003	4.3	131	1	512152.87	4621460.42		
ECTF	Z8	415	1999	2003	4.2	114	1	513533.16	4622284.05		
ECTF	Z9	416	1999	2003	4.3	133	1	514692.49	4622975.45		
IDEM	LMG020-0001	LMG020-0001	1999	2004	5.2	58	52	474887.20	4606335.27	X	X
IDEM	LMG020-0003	LMG020-0003	1990	2004	14.8	153	56	461768.31	4611605.09	X	X
IDEM	LMG020-0004	LMG020-0004	1990	2004	14.8	168	38	460764.17	4609852.60	X	X
IDEM	LMG020-0005	LMG020-0005	1990	2004	14.8	169	36	459982.07	4610658.77	X	X
IDEM	LMG020-0006	LMG020-0006	1991	2004	13.8	157	38	459469.73	4614146.63	X	X
IDEM	LMG020-0008	LMG020-0008	1990	2004	14.8	163	36	463501.56	4611318.50	X	X
IDEM	LMG020-0009	LMG020-0009	1990	2004	14.8	167	39	471457.75	4605361.20	X	X
IDEM	LMG020-0010	LMG020-0010	1990	2004	14.5	169	40	457883.65	4615728.66	X	X
IDEM	LMG020-0011	LMG020-0011	1990	2004	14.8	169	39	461535.72	4607041.95	X	X
IDEM	LMG020-0012	LMG020-0012	1990	2004	14.8	173	36	469008.52	4606419.89	X	X
IDEM	LMG020-0013	LMG020-0013	1997	2004	7.7	93	51	483384.08	4607389.99	X	X
IDEM	LMG020-0014	LMG020-0014	1991	2004	13.6	146	22	456314.44	4612376.39	X	X
IDEM	LMG020-0016	no_id_provided	2000	2000	0.1	5	8	460766.60	4608729.07		
IDEM	LMG020-0020	no_id_provided	1994	1994	0.0	1	4	461814.24	4611543.16		
IDEM	LMG020-0021	no_id_provided	1990	1990	0.0	1	2	457212.93	4615670.95		
IDEM	LMG020-0043	no_id_provided	1995	1995	0.0	1	16	458099.85	4613167.60		
IDEM	LMG020-0044	no_id_provided	1995	2001	6.0	2	15	456922.02	4613421.30		
IDEM	LMG030-0002	no_id_provided	2000	2000	0.3	3	35	478606.96	4587521.51		
IDEM	LMG030-0006	no_id_provided	2000	2000	0.1	5	8	465131.07	4594348.46		

Agency	Station ID_1	Station ID_2	From	To	Years	# Events	Average Param	UTMX_83	UTMY_83	High Quality	Active
IDEM	LMG030-0007	no_id_provided	2000	2000	0.1	5	8	471964.23	4594820.43		
IDEM	LMG030-0008	no_id_provided	2000	2004	4.1	13	38	478609.71	4598225.74		X
IDEM	LMG030-0009	no_id_provided	2000	2000	0.1	5	8	481530.28	4591712.51		
IDEM	LMG030-0010	no_id_provided	2000	2000	0.1	5	8	478418.13	4589014.11		
IDEM	LMG030-0011	no_id_provided	2000	2000	0.1	5	8	476941.08	4595243.50		
IDEM	LMG030-0012	no_id_provided	1990	2000	9.9	2	3	471962.85	4586393.06		
IDEM	LMG030-0013	no_id_provided	1990	1990	0.0	1	2	469530.26	4587451.42		
IDEM	LMG030-0014	no_id_provided	1990	1990	0.0	1	2	481562.10	4591728.15		
IDEM	LMG030-0015	no_id_provided	1990	1990	0.0	1	2	469535.41	4594174.33		
IDEM	LMG030-0018	no_id_provided	1995	1995	0.0	1	16	468908.75	4583229.14		
IDEM	LMG030-0019	no_id_provided	1995	2001	6.0	2	16	477103.89	4597384.45		
IDEM	LMG040-0001	no_id_provided	2000	2000	0.3	4	33	480210.07	4604046.99		
IDEM	LMG040-0003	LMG040-0003	1990	2004	14.8	173	25	483912.48	4605661.78	X	X
IDEM	LMG040-0004	no_id_provided	2000	2000	0.1	5	8	471935.32	4601085.56		
IDEM	LMG040-0005	no_id_provided	2000	2000	0.1	5	8	479981.42	4603956.06		
IDEM	LMG040-0006	no_id_provided	1990	1990	0.0	1	2	482497.70	4604524.03		
IDEM	LMG050-0001	no_id_provided	2000	2000	0.3	3	28	488353.08	4594877.68		
IDEM	LMG050-0006	LMG050-0006	1991	2004	13.8	159	22	487800.74	4605345.74	X	X
IDEM	LMG050-0007	LMG050-0007	1991	2004	13.8	157	25	488175.85	4594119.72	X	X
IDEM	LMG050-0009	no_id_provided	2000	2000	0.1	5	8	488536.27	4595075.14		
IDEM	LMG050-0011	no_id_provided	2000	2000	0.1	3	6	496618.94	4585079.79		
IDEM	LMG050-0012	no_id_provided	2000	2000	0.1	4	6	493925.83	4588824.39		
IDEM	LMG050-0013	no_id_provided	2000	2000	0.1	5	6	494399.79	4589669.60		
IDEM	LMG050-0014	no_id_provided	2000	2000	0.1	4	6	494351.78	4589979.87		
IDEM	LMG050-0015	no_id_provided	2000	2000	0.1	4	6	493830.97	4590500.54		
IDEM	LMG050-0016	no_id_provided	2000	2000	0.1	4	6	493372.41	4590786.21		
IDEM	LMG050-0017	no_id_provided	2000	2000	0.1	4	6	492904.53	4591702.55		
IDEM	LMG050-0018	no_id_provided	2000	2000	0.1	4	6	490471.14	4591140.08		
IDEM	LMG050-0019	no_id_provided	2000	2000	0.1	4	6	489461.62	4590905.88		
IDEM	LMG050-0020	no_id_provided	2000	2000	0.1	4	6	488490.99	4591102.57		
IDEM	LMG050-0021	no_id_provided	2000	2000	0.1	4	6	487655.37	4593450.77		
IDEM	LMG050-0022	no_id_provided	2000	2000	0.1	4	6	488196.48	4594115.37		
IDEM	LMG050-0023	no_id_provided	2000	2000	0.1	4	6	489250.93	4595370.09		
IDEM	LMG050-0024	no_id_provided	2000	2000	0.1	4	7	488861.13	4596030.94		
IDEM	LMG050-0025	no_id_provided	2000	2000	0.1	4	7	489464.87	4596625.22		
IDEM	LMG050-0027	no_id_provided	2000	2000	0.1	4	7	489645.03	4597485.67		
IDEM	LMG050-0028	no_id_provided	2000	2000	0.1	4	7	489611.74	4598186.69		
IDEM	LMG050-0029	no_id_provided	2000	2000	0.1	4	7	491258.13	4599370.26		
IDEM	LMG050-0030	no_id_provided	2000	2000	0.1	4	7	489908.57	4599837.39		
IDEM	LMG050-0031	no_id_provided	2000	2000	0.1	4	7	491250.56	4600956.32		
IDEM	LMG050-0033	no_id_provided	---	---	---	---	---	489623.68	4602934.96		
IDEM	LMG050-0034	no_id_provided	2000	2000	0.1	5	7	489615.46	4603976.10		
IDEM	LMG050-0035	no_id_provided	2000	2000	0.1	4	7	487827.22	4603893.79		
IDEM	LMG050-0036	no_id_provided	2000	2000	0.1	4	7	487963.84	4605009.32		
IDEM	LMG050-0037	no_id_provided	2000	2000	0.1	4	7	487795.84	4605324.78		
IDEM	LMG050-0039	no_id_provided	1990	1990	0.0	1	7	495197.55	4589239.14		
IDEM	LMG050-0040	no_id_provided	1990	1990	0.0	1	3	494084.82	4590319.31		
IDEM	LMG050-0041	no_id_provided	1990	1990	0.0	1	3	489876.39	4599853.16		
IDEM	LMG050-0042	no_id_provided	1990	2000	9.9	2	2	492865.92	4600959.78		
IDEM	LMG050-0043	no_id_provided	1990	1990	0.0	1	5	487662.43	4605685.21		
IDEM	LMG050-0045	no_id_provided	1989	2001	12.0	4	14	495271.57	4595992.74		
IDEM	LMG050-0046	no_id_provided	1995	2001	6.0	2	16	494715.27	4595962.29		
IDEM	LMG050-0047	no_id_provided	2001	2001	0.0	1	12	494876.01	4593834.30		
IDEM	LMG060-0002	no_id_provided	2000	2000	0.3	4	28	493729.52	4607861.85		
IDEM	LMG060-0004	no_id_provided	2000	2000	0.3	16	145	492756.97	4607775.35		
IDEM	LMG060-0005	LMG060-0005	1990	2004	14.8	174	26	485511.89	4606768.60	X	X
IDEM	LMG060-0006	LMG060-0006	2000	2000	0.1	5	32	485284.75	4608866.15		
IDEM	LMG060-0007	LMG060-0007	1990	2004	14.8	190	48	485304.92	4607416.65	X	X
IDEM	LMG060-0008	LMG060-0008	1990	2004	14.4	167	21	489493.37	4607255.11	X	X
IDEM	LMG060-0009	no_id_provided	2000	2000	0.1	5	8	485548.65	4606745.09		
IDEM	LMG060-0011	no_id_provided	2000	2000	0.1	4	8	501398.14	4607856.95		
IDEM	LMG060-0012	no_id_provided	2000	2000	0.1	5	35	485306.54	4608661.94		
IDEM	LMG060-0013	no_id_provided	2000	2000	0.0	1	67	485553.03	4606740.15		
IDEM	LMG060-0014	no_id_provided	2000	2000	0.1	5	24	487852.16	4607421.45		
IDEM	LMG060-0015	no_id_provided	2000	2000	0.1	5	24	489504.49	4607263.73		
IDEM	LMG060-0016	no_id_provided	2000	2000	0.1	5	31	492766.49	4607805.25		
IDEM	LMG060-0017	no_id_provided	2000	2000	0.1	5	24	493749.07	4607836.10		
IDEM	LMG060-0019	no_id_provided	2000	2000	0.1	5	26	494439.00	4607087.98		
IDEM	LMG060-0020	no_id_provided	2000	2000	0.1	5	24	501629.51	4608017.06		
IDEM	LMG060-0021	no_id_provided	2000	2000	0.1	5	24	504028.67	4608402.88		
IDEM	LMG060-0022	no_id_provided	2000	2000	0.1	5	35	507805.96	4606779.83		
IDEM	LMG060-0023	no_id_provided	2000	2000	0.1	5	24	508770.21	4606340.86		
IDEM	LMG060-0024	no_id_provided	2000	2000	0.1	4	21	508617.22	4605570.00		
IDEM	LMG060-0025	no_id_provided	2000	2000	0.1	5	8	495800.39	4606116.55		
IDEM	LMG060-0026	no_id_provided	1990	1990	0.0	1	1	496666.30	4604657.71		
IDEM	LMG060-0027	no_id_provided	1994	1996	2.1	2	4	485328.95	4607848.35		
IDEM	LMG060-0028	no_id_provided	1990	1990	0.0	1	2	501897.44	4608111.18		
IDEM	LMG060-0037	no_id_provided	1990	1990	0.0	1	9	511063.04	4606608.32		
IDEM	LMG070-0004	LMG070-0004	1990	2004	14.8	152	44	508432.99	4619125.63	X	X
IDEM	LMG070-0005	LMG070-0005	1991	2004	13.8	160	27	510327.75	4618973.91	X	X
IDEM	LMG070-0006	LMG070-0006	2004	2004	0.0	1	30	509196.41	4618355.57		X
IDEM	LMG070-0007	LMG070-0007	1991	2004	13.8	158	40	507947.94	4619001.72	X	X
IDEM	LMG070-0008	LMG070-0008	1991	2004	13.8	154	30	508571.91	4618879.08	X	X
IDEM	LMG070-0010	no_id_provided	2000	2000	0.1	5	8	513081.32	4612407.07		
IDEM	LMG070-0011	no_id_provided	2000	2000	0.1	5	8	512946.28	4615092.35		
IDEM	LMG070-0012	no_id_provided	2000	2000	0.1	5	9	507948.40	4619002.03		
IDEM	LMG070-0013	no_id_provided	2000	2000	0.1	5	6	508572.37	4618879.39		
IDEM	LMG070-0014	no_id_provided	2000	2000	0.1	5	13	509659.67	4618551.71		
IDEM	LMG070-0015	no_id_provided	2000	2000	0.1	5	8	510327.98	4618973.91		

Agency	Station ID_1	Station ID_2	From	To	Years	# Events	Average Param	UTMX_83	UTMY_83	High Quality	Active
IDEM	LMG070-0016	no_id_provided	2000	2000	0.1	5	10	511646.43	4618339.40		
IDEM	LMG070-0017	no_id_provided	2000	2000	0.1	10	7	511956.32	4617079.18		
IDEM	LMG070-0018	no_id_provided	2000	2000	0.1	10	9	512916.92	4615088.90		
IDEM	LMG070-0019	no_id_provided	2000	2000	0.1	5	8	512941.49	4614923.64		
IDEM	LMG070-0020	no_id_provided	2000	2000	0.1	5	10	515298.47	4615518.87		
IDEM	LMG070-0021	no_id_provided	1990	2000	9.9	3	2	512855.77	4613611.88		
IDEM	LMG070-0022	no_id_provided	1990	1990	0.0	1	2	511948.20	4617095.20		
IDEM	LMG070-0024	no_id_provided	1990	2000	9.9	2	3	512027.30	4618159.31		
IDEM	LMG070-0025	no_id_provided	1994	1996	2.1	2	4	507809.45	4618878.21		
IDEM	LMG080-0001	no_id_provided	1990	1990	0.0	1	2	504957.55	4616624.36		
IDEM	LMG100-0001	no_id_provided	2000	2000	0.3	3	28	526205.33	4620948.59		
IDEM	LMG100-0004	no_id_provided	2000	2000	0.1	5	8	527010.59	4621848.56		
IDEM	LMG100-0006	no_id_provided	1990	2000	9.9	2	3	527010.11	4621854.73		
IDNR	C1	1	1973	1976	3.2	2	7	508094.75	4619055.90		
IDNR	C10	10	1973	1976	3.1	2	7	512155.69	4616809.32		
IDNR	C100	46	1977	2003	26.0	2	15	493403.21	4590725.73		
IDNR	C101	45	1977	2003	26.1	2	16	490615.68	4591883.41		
IDNR	C102	48	1977	1977	0.0	1	11	493919.88	4588827.60		
IDNR	C103	49	1977	2003	26.0	2	12	494550.32	4587058.99		
IDNR	C105	41	1977	1977	0.0	1	12	489648.33	4596637.43		
IDNR	C106	39	1977	1977	0.0	1	9	489632.89	4601355.79		
IDNR	C107	37	1977	1977	0.0	1	13	487796.36	4605334.33		
IDNR	C108	36	1977	1977	0.0	1	12	487572.11	4606628.00		
IDNR	C109	38	1977	1977	0.0	1	11	488541.04	4603568.89		
IDNR	C11	11	1973	1976	3.1	2	7	512922.49	4615071.79		
IDNR	C110	47	1977	2003	26.0	2	15	494348.71	4589986.91		
IDNR	C111	no_id_provided	2001	2001	0.0	1	12	509941.61	4611512.62		
IDNR	C112	no_id_provided	2001	2001	0.0	1	12	509317.53	4611212.02		
IDNR	C117	50	2003	2003	0.0	1	17	496715.74	4585072.65		
IDNR	C118	53	2003	2003	0.0	1	18	491419.60	4600919.42		
IDNR	C119	52	2003	2003	0.0	1	18	492962.19	4600873.34		
IDNR	C12	12	1973	1976	3.1	2	7	512918.41	4614863.78		
IDNR	C120	no_id_provided	2004	2004	0.0	1	12	483343.65	4602721.01		X
IDNR	C121	no_id_provided	2004	2004	0.0	1	12	482711.03	4603122.18		X
IDNR	C122	no_id_provided	2004	2004	0.0	1	12	482497.70	4604521.56		X
IDNR	C123	no_id_provided	2004	2004	0.0	1	12	478018.13	4603234.90		X
IDNR	C13	13	1973	1976	3.1	2	7	512767.50	4613615.69		
IDNR	C14	14	1973	2001	28.0	3	8	511330.46	4612558.29		
IDNR	C15	15	1973	1976	3.0	2	7	509696.23	4610915.59		
IDNR	C16	16	1973	1976	3.0	2	7	509851.22	4609479.88		
IDNR	C17	17	1973	1976	3.0	2	7	510450.79	4608651.90		
IDNR	C18	W-1	1973	2001	28.0	3	8	513027.20	4613427.15		
IDNR	C19	W-2	1973	2001	28.0	3	8	512845.45	4612660.76		
IDNR	C2	2	1973	1976	3.2	2	7	508733.65	4618681.45		
IDNR	C20	W-3	1973	1976	2.9	2	7	513424.17	4611776.20		
IDNR	C21	E-1	1973	2001	28.0	3	8	515286.84	4615552.15		
IDNR	C22	E-2	1973	2001	28.0	3	9	515385.77	4615985.35		
IDNR	C23	no_id_provided	1973	2001	28.0	3	7	516525.20	4616232.14		
IDNR	C24	no_id_provided	1973	2001	28.0	3	8	518136.33	4617468.40		
IDNR	C25	E-5	1973	2001	28.0	3	9	518776.98	4617447.85		
IDNR	C26	E-6	1973	1976	3.1	2	7	520113.25	4616560.52		
IDNR	C27	E-7	1973	1976	2.9	2	7	520043.92	4616217.91		
IDNR	C28	E-8	1973	1976	3.0	2	7	517739.45	4616185.28		
IDNR	C29	E-9	1973	1976	3.0	2	7	517816.94	4615801.88		
IDNR	C3	3	1973	1976	3.1	2	7	509622.81	4618571.33		
IDNR	C30	E-10	1973	1976	3.0	2	7	518991.61	4618053.33		
IDNR	C31	E-11	1973	1973	0.0	1	7	519558.55	4618461.20		
IDNR	C32	3	1974	1974	0.0	1	7	492000.01	4607819.82		
IDNR	C33	4	1974	1974	0.0	1	7	495995.14	4607788.45		
IDNR	C34	5	1974	1974	0.0	1	7	498686.79	4607165.42		
IDNR	C35	6	1974	1977	2.8	2	10	501372.80	4607690.59		
IDNR	C37	8	1974	2002	27.9	3	12	501475.43	4607936.22		
IDNR	C38	9	1974	1977	2.8	2	9	504131.54	4608409.50		
IDNR	C39	10	1974	2002	27.9	2	12	505739.82	4607755.49		
IDNR	C4	4	1973	1976	3.1	2	7	510238.70	4618946.57		
IDNR	C40	11	1974	2002	27.9	3	12	506539.81	4607489.72		
IDNR	C41	12	1974	1974	0.0	1	7	507635.15	4606844.50		
IDNR	C42	13	1974	1974	0.0	1	7	507892.52	4606732.42		
IDNR	C43	14	1974	2002	27.9	3	12	508940.63	4606282.17		
IDNR	C44	15	1974	1974	0.0	1	7	509910.00	4605748.59		
IDNR	C45	1	1978	1978	0.0	1	10	527615.85	4622447.49		
IDNR	C46	2	1978	1978	0.0	1	10	528109.07	4619937.86		
IDNR	C47	3	1978	1978	0.0	1	10	525812.21	4620740.55		
IDNR	C48	4	1978	1978	0.0	1	10	524168.14	4619507.50		
IDNR	C49	4	1978	2004	26.2	2	11	475760.89	4601299.26		X
IDNR	C5	5	1973	1976	3.1	2	7	510805.64	4619170.90		
IDNR	C50	1	1978	2004	26.3	3	10	484376.08	4605960.52		X
IDNR	C51	3	1976	1976	0.0	1	10	476791.73	4602865.09		
IDNR	C52	2	1978	1991	13.0	2	9	481810.11	4605002.55		
IDNR	C53	1	1978	1978	0.0	1	10	481851.71	4604749.42		
IDNR	C54	5	1978	2004	26.1	3	10	480299.81	4602362.32		X
IDNR	C55	6	1978	1978	0.0	1	10	479674.43	4598458.30		
IDNR	C56	6	1978	2004	26.2	3	10	478942.02	4599901.49		X
IDNR	C6	6	1973	1976	3.1	2	7	511421.52	4619232.08		
IDNR	C63	3	1991	1991	0.0	1	9	480197.21	4601659.17		
IDNR	C64	5	1991	1991	0.0	1	9	479889.23	4600876.60		
IDNR	C65	27	1977	2002	25.1	2	14	504058.95	4604357.09		
IDNR	C66	26	1977	2002	25.1	2	15	504324.67	4605989.25		
IDNR	C67	25	1977	2002	25.2	2	14	505274.98	4605468.09		

Agency	Station ID_1	Station ID_2	From	To	Years	# Events	Average Param	UTMX_83	UTMY_83	High Quality	Active
IDNR	C68	21	1977	2002	25.2	2	14	504998.74	4607266.44		
IDNR	C69	22	1977	2002	25.1	2	14	505807.98	4605879.28		
IDNR	C7	7	1973	1976	3.1	2	7	511674.40	4618763.03		
IDNR	C70	23	1977	2002	25.1	2	14	506458.70	4605036.07		
IDNR	C71	28	1977	2002	25.1	2	14	500891.59	4606087.93		
IDNR	C72	18	1977	2002	25.1	2	16	507781.88	4606791.52		
IDNR	C73	20	1977	2002	25.1	2	15	508691.66	4605460.30		
IDNR	C74	31	1977	2003	26.0	2	15	498508.23	4604933.41		
IDNR	C75	30	1977	2003	26.0	2	16	497850.08	4605721.82		
IDNR	C76	34	1977	2003	26.0	2	15	497732.26	4602024.87		
IDNR	C77	33	1977	2003	26.0	2	15	496641.23	4604501.06		
IDNR	C78	32	1977	2003	26.1	2	15	496000.93	4607121.48		
IDNR	C79	35	1977	2003	26.0	2	15	499416.25	4600314.82		
IDNR	C8	8	1973	1976	3.1	2	7	511649.93	4618342.92		
IDNR	C80	29	1977	1977	0.0	1	14	497363.61	4607148.74		
IDNR	C81	8	1977	1977	0.0	1	13	496258.44	4607659.86		
IDNR	C82	2	1974	1977	2.8	2	10	489412.45	4607232.30		
IDNR	C83	4	1977	1977	0.0	1	14	489554.62	4607276.31		
IDNR	C84	5	1977	1977	0.0	1	14	492098.59	4607868.03		
IDNR	C85	6	1977	1977	0.0	1	14	492758.65	4607810.49		
IDNR	C86	7	1974	1977	2.9	2	10	493574.41	4607854.49		
IDNR	C87	11	1977	1977	0.0	1	14	501393.20	4607858.34		
IDNR	C88	10	1977	1977	0.0	1	14	498578.99	4607057.13		
IDNR	C89	14	1977	2002	25.2	2	12	501617.45	4608024.54		
IDNR	C9	9	1973	1976	3.1	2	7	511890.57	4617747.43		
IDNR	C90	24	1977	1977	0.0	1	13	504468.84	4607304.63		
IDNR	C91	no_id_provided	1977	1977	0.0	1	14	487728.41	4606749.28		
IDNR	C92	1	1974	1977	2.8	2	10	487863.81	4607172.39		
IDNR	C93	2	1977	1977	0.0	1	14	488291.15	4607053.92		
IDNR	C94	no_id_provided	1974	1974	0.0	1	7	494390.02	4607834.25		
IDNR	C95	40	1977	2004	27.0	2	12	489875.43	4599833.42		X
IDNR	C96	51	1977	2003	26.0	2	15	489701.68	4594959.89		
IDNR	C97	43	1977	2004	27.0	2	12	488541.79	4595050.46		X
IDNR	C98	42	1977	1977	0.0	1	12	489252.93	4596629.83		
IDNR	C99	44	1977	2003	26.1	2	16	488443.37	4590909.59		
USGS	04092677	no_id_provided	1984	1999	14.8	10	40	467202.62	4606304.54		
USGS	04092700	no_id_provided	1970	1970	0.0	1	9	460775.35	4607662.87		
USGS	04092750	no_id_provided	1996	1998	2.1	653	27	460978.25	4610930.85		
USGS	04093200	no_id_provided	1979	1980	0.3	3	22	473298.32	4602301.01		
USGS	04093500	no_id_provided	1980	1980	0.0	1	9	475916.36	4602631.01		
USGS	04094000	no_id_provided	1973	1980	6.9	27	22	492756.97	4607775.35	X	
USGS	04095000	no_id_provided	1978	1980	2.4	29	53	487154.84	4606611.28		
USGS	04095300	no_id_provided	1977	1994	16.8	78	20	511668.87	4618328.33	X	
USGS	04096100	no_id_provided	1977	1980	3.0	22	6	527021.54	4621885.61		
USGS	413536087022401	no_id_provided	1979	1980	0.3	2	11	496666.29	4604626.87		
USGS	413538087131301	no_id_provided	1978	1980	1.8	9	14	481925.74	4603554.01		
USGS	413612087085301	no_id_provided	1979	1980	0.6	3	11	487662.53	4605746.89		
USGS	413620087142502	no_id_provided	2001	2001	0.0	1	65	479976.68	4605412.61		
USGS	413621087140901	no_id_provided	2001	2002	0.5	2	63	480543.78	4605398.72		
USGS	413626087211101	no_id_provided	1999	2000	0.7	2	145	470581.64	4606228.24		
USGS	413627087135601	no_id_provided	2001	2001	0.0	1	67	481928.06	4605398.19		
USGS	413627087192801	no_id_provided	1999	1999	0.0	1	34	472965.78	4606249.72		
USGS	413627087194700	no_id_provided	1984	1988	3.6	3	60	472526.01	4606251.39		
USGS	413628087191000	no_id_provided	1984	1984	0.0	1	39	473382.52	4606279.01		
USGS	413628087194500	no_id_provided	1984	1984	0.0	1	37	472572.42	4606282.05		
USGS	413628087195200	no_id_provided	1984	1984	0.0	1	38	472410.40	4606282.67		
USGS	413628087195800	no_id_provided	1984	1984	0.0	1	33	472271.52	4606283.20		
USGS	413628087201401	no_id_provided	1999	1999	0.0	1	33	471901.19	4606284.64		
USGS	413629087185600	no_id_provided	1984	1984	0.0	1	36	473706.67	4606308.65		
USGS	413630087180401	no_id_provided	1999	2002	2.8	4	102	474910.35	4606335.19		
USGS	413630087184300	no_id_provided	1984	1984	0.0	1	37	474007.67	4606338.40		
USGS	413631087182600	no_id_provided	1984	1984	0.0	1	36	474401.26	4606367.82		
USGS	413631087183000	no_id_provided	1984	1984	0.0	1	36	474308.67	4606368.16		
USGS	413632087202400	no_id_provided	1984	1984	0.0	1	36	471670.22	4606408.91		
USGS	413632087205500	no_id_provided	1984	1984	0.0	1	36	470952.72	4606411.77		
USGS	413632087221601	no_id_provided	1999	2002	2.8	4	100	469077.95	4606419.59		
USGS	413632087221900	no_id_provided	1984	1986	2.1	2	38	469031.66	4606419.79		
USGS	413632087231800	no_id_provided	1984	1984	0.0	1	31	467642.94	4606425.91		
USGS	413635087203600	no_id_provided	1984	1984	0.0	1	37	471392.85	4606502.53		
USGS	413636087203600	no_id_provided	1984	1984	0.0	1	37	471392.97	4606533.36		
USGS	413636087204500	no_id_provided	1984	1984	0.0	1	38	471184.67	4606534.20		
USGS	413636087242601	no_id_provided	1999	2000	0.7	2	168	466069.65	4606556.52		
USGS	413637087251301	no_id_provided	1999	1999	0.0	1	35	464981.99	4606592.57		
USGS	413641086504200	no_id_provided	1974	1979	5.3	12	6	512914.54	4606642.24		
USGS	413641087084701	no_id_provided	1979	1980	0.6	4	4	487802.94	4606640.99		
USGS	413641087230801	no_id_provided	1999	1999	0.0	1	36	467875.64	4606702.42		
USGS	413642086504300	no_id_provided	1973	1979	6.1	13	6	512891.34	4606673.04		
USGS	413642087225700	no_id_provided	1984	1984	0.0	1	36	468130.36	4606732.13		
USGS	413643087253400	no_id_provided	1984	1984	0.0	1	32	464496.86	4606779.99		
USGS	413643087263801	no_id_provided	1999	1999	0.0	1	35	463015.63	4606787.46		
USGS	413647087255700	no_id_provided	1984	2002	17.6	5	72	463965.16	4606906.00		
USGS	413648087084501	no_id_provided	1979	1980	0.6	4	9	487849.59	4606856.79		
USGS	413649087165901	no_id_provided	1978	1980	1.8	10	22	476416.72	4606916.04		
USGS	413650087125800	no_id_provided	1973	1978	5.0	9	21	481994.40	4606930.75		
USGS	413650087274201	no_id_provided	1999	2002	2.8	4	109	461535.55	4607011.11		
USGS	413652086510600	no_id_provided	1973	1979	6.1	19	21	512358.49	4606980.50		
USGS	413653086502900	no_id_provided	1973	1979	6.1	11	16	513214.74	4607012.86		
USGS	413654086510200	no_id_provided	1973	1979	5.9	11	18	512450.96	4607042.34		
USGS	413655087273700	no_id_provided	1984	1984	0.0	1	34	461652.09	4607164.69		

Agency	Station ID_1	Station ID_2	From	To	Years	# Events	Average Param	UTMX_83	UTMY_83	High Quality	Active
USGS	413658087124001	no_id_provided	2001	2002	0.5	2	66	483314.68	4605407.18		
USGS	413658087271500	no_id_provided	1984	1984	0.0	1	33	462161.73	4607254.51		
USGS	413701087030001	no_id_provided	1976	1980	4.0	9	19	495834.38	4607248.64		
USGS	413701087272300	no_id_provided	1984	1984	0.0	1	34	461977.08	4607348.01		
USGS	413701087273400	no_id_provided	1984	1984	0.0	1	38	461722.51	4607349.36		
USGS	413701087280500	no_id_provided	1984	1984	0.0	1	35	461005.09	4607353.21		
USGS	413702087273000	no_id_provided	1984	1984	0.0	1	38	461815.24	4607379.70		
USGS	413704087121000	no_id_provided	1973	1977	4.1	10	18	483106.30	4607359.80		
USGS	413706087100501	no_id_provided	1978	1980	1.8	6	29	485304.99	4607447.49		
USGS	413710086502700	no_id_provided	1974	1979	5.3	7	32	513260.05	4607537.22		
USGS	413716087281600	no_id_provided	1984	2000	15.6	3	105	460753.05	4607817.19		
USGS	413717087025601	no_id_provided	1976	1980	4.0	12	18	495927.23	4607742.01		
USGS	413725087130000	no_id_provided	1973	1978	5.0	9	25	481950.82	4608010.24		
USGS	413726086585001	no_id_provided	1978	1980	1.8	12	18	501619.79	4608018.59		
USGS	413727087123801	no_id_provided	1973	1976	2.9	3	5	482460.05	4608070.66		
USGS	413727087125301	no_id_provided	1973	1976	2.9	3	4	482112.96	4608071.51		
USGS	413730087122400	no_id_provided	1973	1978	5.0	9	17	482784.23	4608162.39		
USGS	413732087121101	no_id_provided	1973	1976	2.9	6	5	483085.19	4608223.36		
USGS	413733086565501	no_id_provided	1980	1980	0.0	1	8	504280.75	4608235.56		
USGS	413734086565301	no_id_provided	1980	1980	0.0	1	9	504327.01	4608266.43		
USGS	413807087053500	no_id_provided	1973	1978	5.0	19	21	492249.51	4609287.01		
USGS	413814087060300	no_id_provided	1973	1980	6.9	23	21	491601.96	4609503.61	X	
USGS	413816087054500	no_id_provided	1980	1981	1.0	3	43	492018.46	4609564.81		
USGS	413819087064700	no_id_provided	1973	1978	4.6	20	19	490584.22	4609659.07		
USGS	413819087064801	no_id_provided	1973	1978	4.8	21	32	490561.08	4609659.10		
USGS	413821087051200	no_id_provided	1980	1980	0.5	2	44	492782.07	4609718.20		
USGS	413821087064101	no_id_provided	1974	1978	4.0	16	36	490723.10	4609720.57		
USGS	413822087065200	no_id_provided	1973	1980	7.0	30	34	490468.67	4609751.74	X	
USGS	413822087281601	no_id_provided	1999	2002	2.8	4	109	460764.17	4609852.60		
USGS	413828087053500	no_id_provided	1980	1981	1.0	3	42	492250.21	4609934.63		
USGS	413829087052700	no_id_provided	1980	1981	1.0	3	42	492435.31	4609965.28		
USGS	413830087042900	no_id_provided	1981	1981	0.0	1	41	493777.09	4609994.83		
USGS	413830087055300	no_id_provided	1973	1978	5.0	13	21	491833.87	4609996.77		
USGS	413831087040701	no_id_provided	1980	1980	0.0	1	20	494286.05	4610025.24		
USGS	413831087051200	no_id_provided	1980	1981	0.4	2	41	492782.38	4610026.60		
USGS	413831087053700	no_id_provided	1980	1981	0.5	2	43	492204.04	4610027.20		
USGS	413831087063000	no_id_provided	1974	1978	4.2	15	32	490977.97	4610028.64		
USGS	413832087052000	no_id_provided	1980	1981	1.0	3	41	492597.34	4610057.63		
USGS	413832087052800	no_id_provided	1980	1981	1.0	3	49	492412.27	4610057.82		
USGS	413832087053400	no_id_provided	1980	1981	1.0	3	48	492273.47	4610057.97		
USGS	413833087060701	no_id_provided	1977	1981	4.4	18	42	491510.11	4610089.67		
USGS	413833087065801	no_id_provided	1974	1980	6.2	23	22	490330.32	4610091.16	X	
USGS	413834087040601	no_id_provided	1979	1980	0.3	2	11	494309.26	4610117.74		
USGS	413835087053000	no_id_provided	1980	1981	1.0	3	42	492366.11	4610150.39		
USGS	413838086570101	no_id_provided	1980	1980	0.0	1	22	504140.76	4610240.04		
USGS	413839087051200	no_id_provided	1973	1978	4.8	18	34	492782.62	4610273.31		
USGS	413842087045200	no_id_provided	1980	1981	1.0	3	43	493245.36	4610365.38		
USGS	413843087040701	no_id_provided	1979	1980	0.3	2	11	494286.34	4610395.32		
USGS	413843087052900	no_id_provided	1980	1981	1.0	3	43	492389.50	4610397.08		
USGS	413845087052900	no_id_provided	1973	1976	2.9	6	6	492389.57	4610458.76		
USGS	413848087284201	no_id_provided	2001	2002	0.7	2	26	460167.13	4610657.74		
USGS	413848087285201	no_id_provided	1999	2000	0.7	2	165	459935.81	4610659.02		
USGS	413853087052100	no_id_provided	1980	1981	1.0	2	43	492574.88	4610705.28		
USGS	413855087052200	no_id_provided	1973	1976	2.9	2	14	492551.81	4610766.98		
USGS	413857087280301	no_id_provided	1999	2000	0.7	2	164	461070.77	4610930.34		
USGS	413858087280501	no_id_provided	2001	2002	0.7	2	14	461024.68	4610961.43		
USGS	413900087040800	no_id_provided	1980	1981	1.0	3	42	494263.63	4610919.61		
USGS	413901086563001	no_id_provided	1980	1980	0.0	1	21	504857.39	4610949.80		
USGS	413903086555801	no_id_provided	1980	1980	0.0	1	21	505597.52	4611012.01		
USGS	413904087023600	no_id_provided	1973	1980	6.9	22	23	496391.70	4611041.58	X	
USGS	413907087040100	no_id_provided	1973	1980	6.7	15	21	494425.71	4611135.35		
USGS	413907087040201	no_id_provided	1973	1986	12.4	13	11	494402.58	4611135.37		
USGS	413919087273201	no_id_provided	1999	2002	2.8	4	85	461791.44	4611604.96		
USGS	413925087025900	no_id_provided	1973	1980	6.9	11	20	495860.08	4611689.50		
USGS	413928087272100	no_id_provided	1997	1997	0.0	2	105	462047.33	4611881.17		
USGS	413937087013900	no_id_provided	1980	1981	1.0	3	43	497710.44	4612058.74		
USGS	413945087034400	no_id_provided	1973	1980	6.9	22	20	494819.76	4612306.96	X	
USGS	413949087014400	no_id_provided	1980	1981	1.0	3	43	497594.93	4612428.85		
USGS	413952087264701	no_id_provided	1999	2000	0.7	2	146	462837.50	4612617.20		
USGS	413957087002604	no_id_provided	1986	1986	0.0	1	23	499398.75	4612675.19		
USGS	414013087000700	no_id_provided	1980	1981	1.0	3	42	499838.14	4613168.60		
USGS	414017087002703	no_id_provided	1986	1986	0.3	2	15	499375.68	4613291.98		
USGS	414022087003503	no_id_provided	1986	1986	0.3	3	12	499190.72	4613446.20		
USGS	414028087003203	no_id_provided	1985	1986	1.2	2	23	499260.10	4613631.23		
USGS	414029087000800	no_id_provided	1980	1981	1.0	3	42	499815.03	4613662.03		
USGS	414031086593700	no_id_provided	1973	1979	6.1	16	11	500531.79	4613723.73		
USGS	414034086595201	no_id_provided	1978	1979	0.8	4	5	500184.97	4613816.23		
USGS	414035086574401	no_id_provided	1988	1988	0.0	1	39	503144.47	4613847.76		
USGS	414036086590600	no_id_provided	1980	1981	1.0	3	42	501248.53	4613878.02		
USGS	414039086573301	no_id_provided	1979	1980	0.3	2	16	503398.74	4613971.23		
USGS	414041086542001	no_id_provided	1980	1980	0.0	1	20	507860.97	4614036.42		
USGS	414041086542401	no_id_provided	1980	1980	0.0	1	20	507768.48	4614036.32		
USGS	414045086572201	no_id_provided	1979	1980	0.3	2	15	503652.97	4614156.40		
USGS	414046086592101	no_id_provided	1976	1980	4.1	8	15	500901.68	4614186.36		
USGS	414047086542401	no_id_provided	1979	1979	0.0	1	17	507768.28	4614221.35		
USGS	414050086590500	no_id_provided	1980	1981	1.0	3	43	501271.58	4614309.78		
USGS	414051086542401	no_id_provided	1976	1980	4.1	13	19	507768.15	4614344.71		
USGS	414052086554001	no_id_provided	1976	1980	4.1	9	20	506011.04	4614373.86		
USGS	414058086565701	no_id_provided	1979	1980	0.3	2	11	504230.74	4614557.63		

Agency	Station ID_1	Station ID_2	From	To	Years	# Events	Average Param	UTMX_83	UTMY_83	High Quality	Active
USGS	414104086583601	no_id_provided	1974	1976	2.4	5	7	501941.93	4614741.68		
USGS	414107086571900	no_id_provided	1973	1980	6.9	23	22	503721.98	4614834.90		
USGS	414107086574100	no_id_provided	1980	1981	1.0	3	42	503213.39	4614834.66		
USGS	414107086592800	no_id_provided	1973	1980	6.9	23	19	500739.77	4614833.98		
USGS	414111086572201	no_id_provided	1988	1988	0.0	1	39	503652.57	4614958.23		
USGS	414122086560001	no_id_provided	1980	1980	0.0	1	20	505547.94	4615298.68		
USGS	414125086574800	no_id_provided	1980	1981	1.0	3	43	503051.33	4615389.70		
USGS	414143086543701	no_id_provided	1979	1980	0.3	2	12	507465.93	4615948.06		
USGS	414149086560800	no_id_provided	1973	1980	6.9	21	26	505362.38	4616131.21		
USGS	414150086543701	no_id_provided	1979	1980	0.3	2	12	507465.70	4616163.93		
USGS	414153086540801	no_id_provided	1978	1980	1.8	10	18	508135.89	4616257.18		

APPENDIX B
2004 IDEM/AIMS MONITORING DATA

APPENDIX B

IDEM laboratory analysis results from 2004 (AIMS database).

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
LMG020-0001	GCR-46	Grand Calumet River	1/7/2004	AA20567	474887.20	4606335.27	Sulfate	96
					474887.20	4606335.27	Chloride	42 (fDJ)
					474887.20	4606335.27	Fluoride	0.7
					474887.20	4606335.27	Calcium (as CaCO3)	242
					474887.20	4606335.27	Cyanide (Free)	0.011
					474887.20	4606335.27	Cyanide (Total)	0.014
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	0.005
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	117
					474887.20	4606335.27	Iron (Total)	948
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	< 1
					474887.20	4606335.27	Manganese (Dissolved)	348
					474887.20	4606335.27	Manganese (Total)	419
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	19.1 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	2.52
					474887.20	4606335.27	Arsenic (Total)	5.3
					474887.20	4606335.27	Barium (Dissolved)	52.3
					474887.20	4606335.27	Barium (Total)	65.3
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	3.38
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	< 1
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	14
					474887.20	4606335.27	Nitrogen, Ammonia	2.8
					474887.20	4606335.27	Phosphorus, Total	0.03
					474887.20	4606335.27	Selenium (Dissolved)	< 2
					474887.20	4606335.27	Selenium (Total)	< 2
					474887.20	4606335.27	Biochemical Oxygen Demand (Total) 5-day	1.9
					474887.20	4606335.27	Chemical Oxygen Demand	22.4
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.8
					474887.20	4606335.27	pH	7.9
					474887.20	4606335.27	Solids, Non-filterable Residue	< 4
					474887.20	4606335.27	Solids (Total) Residue	483
					474887.20	4606335.27	Solids, Filterable Residue	458
					474887.20	4606335.27	Total Organic Carbon	6.7
					474887.20	4606335.27	Nitrogen (Total) Kjeldahl	3.9
					474887.20	4606335.27	Hardness (as CaCO3)	365
					474887.20	4606335.27	Alkalinity (as CaCO3)	225
LMG020-0001	GCR-46	Grand Calumet River	2/18/2004	AA20697	474887.20	4606335.27	Sulfate	79
					474887.20	4606335.27	Chloride	52
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	221
					474887.20	4606335.27	Cyanide (Free)	0.012
					474887.20	4606335.27	Cyanide (Total)	0.019
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	0.005
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	109
					474887.20	4606335.27	Iron (Total)	825
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	< 1
					474887.20	4606335.27	Manganese (Dissolved)	587
					474887.20	4606335.27	Manganese (Total)	740
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	28.4 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	3.05
					474887.20	4606335.27	Arsenic (Total)	6.35
					474887.20	4606335.27	Barium (Dissolved)	49.6
					474887.20	4606335.27	Barium (Total)	64
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	5.46
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					474887.20	4606335.27	Copper (Total)	< 1
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	12
					474887.20	4606335.27	Nitrogen, Ammonia	2.2
					474887.20	4606335.27	Phosphorus, Total	< 0.03
					474887.20	4606335.27	Selenium (Dissolved)	< 2
					474887.20	4606335.27	Selenium (Total)	2.01
					474887.20	4606335.27	Chemical Oxygen Demand	21.6
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.4
					474887.20	4606335.27	pH	7.5
					474887.20	4606335.27	Solids, Non-filterable Residue	4
					474887.20	4606335.27	Solids (Total) Residue	456
					474887.20	4606335.27	Solids, Filterable Residue	436
					474887.20	4606335.27	Hardness (as CaCO3)	336
					474887.20	4606335.27	Alkalinity (as CaCO3)	234
					474887.20	4606335.27	Total Organic Carbon	5.5
LMG020-0001	GCR-46	Grand Calumet River	5/26/2004	AA22563	474887.20	4606335.27	Sulfate	98
					474887.20	4606335.27	Chloride	43
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	216
					474887.20	4606335.27	Cyanide (Free)	< 0.005
					474887.20	4606335.27	Cyanide (Total)	0.011
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	< -0.2
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	95.7
					474887.20	4606335.27	Iron (Total)	1210
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	1.7
					474887.20	4606335.27	Manganese (Dissolved)	131
					474887.20	4606335.27	Manganese (Total)	311
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	22.5 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	5.81
					474887.20	4606335.27	Arsenic (Total)	13.8
					474887.20	4606335.27	Barium (Dissolved)	49.8
					474887.20	4606335.27	Barium (Total)	70.2
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	1.84
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	1.01
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	8
					474887.20	4606335.27	Nitrogen, Ammonia	2.2
					474887.20	4606335.27	Phosphorus, Total	0.07
					474887.20	4606335.27	Selenium (Dissolved)	< 2.2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Biochemical Oxygen Demand (Total) 5-day	5.1 (QJ)
					474887.20	4606335.27	Chemical Oxygen Demand	28.8
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.4
					474887.20	4606335.27	pH	7.8
					474887.20	4606335.27	Solids, Non-filterable Residue	12
					474887.20	4606335.27	Solids (Total) Residue	481
					474887.20	4606335.27	Solids, Filterable Residue	427
					474887.20	4606335.27	Total Organic Carbon	6.4
					474887.20	4606335.27	Nitrogen (Total) Kjeldahl	3.5
					474887.20	4606335.27	Hardness (as CaCO3)	314
					474887.20	4606335.27	Alkalinity (as CaCO3)	220
LMG020-0001	GCR-46	Grand Calumet River	3/30/2004	AA21251	474887.20	4606335.27	Sulfate	85
					474887.20	4606335.27	Chloride	47
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	234
					474887.20	4606335.27	Cyanide (Free)	< 0.005 (HJ)
					474887.20	4606335.27	Cyanide (Total)	0.007
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	< -0.2 (HJ)
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	48.3
					474887.20	4606335.27	Iron (Total)	815
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	< 1
					474887.20	4606335.27	Manganese (Dissolved)	172

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					474887.20	4606335.27	Manganese (Total)	312
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	24.4 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	3.76
					474887.20	4606335.27	Arsenic (Total)	7.12
					474887.20	4606335.27	Barium (Dissolved)	44.9
					474887.20	4606335.27	Barium (Total)	62.7
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	< 1.2
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	< 1
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	8
					474887.20	4606335.27	Nitrogen, Ammonia	2
					474887.20	4606335.27	Phosphorus, Total	0.05
					474887.20	4606335.27	Selenium (Dissolved)	< 2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Biochemical Oxygen Demand (Total) 5-day	3.3
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.5
					474887.20	4606335.27	pH	7.9
					474887.20	4606335.27	Solids, Non-filterable Residue	< 4
					474887.20	4606335.27	Solids (Total) Residue	459
					474887.20	4606335.27	Solids, Filterable Residue	428
					474887.20	4606335.27	Total Organic Carbon	6.2
					474887.20	4606335.27	Hardness (as CaCO3)	329
					474887.20	4606335.27	Alkalinity (as CaCO3)	203
LMG020-0001	GCR-46	Grand Calumet River	4/21/2004	AA21929	474887.20	4606335.27	Sulfate	115
					474887.20	4606335.27	Chloride	49
					474887.20	4606335.27	Fluoride	0.7
					474887.20	4606335.27	Calcium (as CaCO3)	238
					474887.20	4606335.27	Cyanide (Free)	0.011 (HJ)
					474887.20	4606335.27	Cyanide (Total)	0.011 (HJ)
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	< -0.2 (HJ)
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	179
					474887.20	4606335.27	Iron (Total)	1380
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	1.23
					474887.20	4606335.27	Manganese (Dissolved)	261
					474887.20	4606335.27	Manganese (Total)	372
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	1.5
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	27.3 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	5.53
					474887.20	4606335.27	Arsenic (Total)	10.9
					474887.20	4606335.27	Barium (Dissolved)	51.9
					474887.20	4606335.27	Barium (Total)	71.8
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	< 1.2
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	1.05
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	9
					474887.20	4606335.27	Nitrogen, Ammonia	2.2
					474887.20	4606335.27	Phosphorus, Total	0.06
					474887.20	4606335.27	Selenium (Dissolved)	< 2.2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Chemical Oxygen Demand	25.7
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.6 (DJ)
					474887.20	4606335.27	pH	7.8
					474887.20	4606335.27	Solids, Non-filterable Residue	10
					474887.20	4606335.27	Solids (Total) Residue	480
					474887.20	4606335.27	Solids, Filterable Residue	460
					474887.20	4606335.27	Total Organic Carbon	6.4
					474887.20	4606335.27	Nitrogen (Total) Kjeldahl	3.5
					474887.20	4606335.27	Hardness (as CaCO3)	326
					474887.20	4606335.27	Alkalinity (as CaCO3)	221

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
LMG020-0001	GCR-46	Grand Calumet River	6/17/2004	AA23125	474887.20	4606335.27	Sulfate	58
					474887.20	4606335.27	Chloride	40
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	171
					474887.20	4606335.27	Cyanide (Free)	< 0.005
					474887.20	4606335.27	Cyanide (Total)	0.008
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	0.008
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	81.6
					474887.20	4606335.27	Iron (Dissolved)	197
					474887.20	4606335.27	Iron (Total)	1530
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	2.84
					474887.20	4606335.27	Manganese (Dissolved)	131
					474887.20	4606335.27	Manganese (Total)	256
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	22.1 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	9.07
					474887.20	4606335.27	Arsenic (Total)	15.2
					474887.20	4606335.27	Barium (Dissolved)	51.9
					474887.20	4606335.27	Barium (Total)	60.9
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	2.29
					474887.20	4606335.27	Chromium (Total)	1.33
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	1.17
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	8.12
					474887.20	4606335.27	Silica (Molybdate Reactive)	9
					474887.20	4606335.27	Nitrogen, Ammonia	1.2
					474887.20	4606335.27	Phosphorus, Total	0.1
					474887.20	4606335.27	Selenium (Dissolved)	< 2.2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Chemical Oxygen Demand	48.1
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.3
					474887.20	4606335.27	pH	7.8
					474887.20	4606335.27	Solids, Non-filterable Residue	23
					474887.20	4606335.27	Solids (Total) Residue	409
					474887.20	4606335.27	Solids, Filterable Residue	369
					474887.20	4606335.27	Total Organic Carbon	7.4
					474887.20	4606335.27	Hardness (as CaCO3)	261
					474887.20	4606335.27	Alkalinity (as CaCO3)	183
LMG020-0001	GCR-46	Grand Calumet River	7/20/2004	AA23275	474887.20	4606335.27	Sulfate	82
					474887.20	4606335.27	Chloride	46
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	184
					474887.20	4606335.27	Cyanide (Free)	0.005
					474887.20	4606335.27	Cyanide (Total)	0.016
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	< -0.2
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	90.1
					474887.20	4606335.27	Iron (Total)	1080
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	< 1
					474887.20	4606335.27	Manganese (Dissolved)	184
					474887.20	4606335.27	Manganese (Total)	350
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	24.9 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	9.77
					474887.20	4606335.27	Arsenic (Total)	16.4
					474887.20	4606335.27	Barium (Dissolved)	41.8
					474887.20	4606335.27	Barium (Total)	60.2
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	3.88
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	< 1
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	16

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					474887.20	4606335.27	Nitrogen, Ammonia	1.7
					474887.20	4606335.27	Phosphorus, Total	0.07
					474887.20	4606335.27	Selenium (Dissolved)	< 2.2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Biochemical Oxygen Demand (Total) 5-day	3.8
					474887.20	4606335.27	Chemical Oxygen Demand	42
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.2
					474887.20	4606335.27	pH	7.8
					474887.20	4606335.27	Solids, Non-filterable Residue	20
					474887.20	4606335.27	Solids (Total) Residue	457
					474887.20	4606335.27	Solids, Filterable Residue	404
					474887.20	4606335.27	Total Organic Carbon	8
					474887.20	4606335.27	Nitrogen (Total) Kjeldahl	3.3
					474887.20	4606335.27	Hardness (as CaCO3)	282
					474887.20	4606335.27	Alkalinity (as CaCO3)	196
LMG020-0001	GCR-46	Grand Calumet River	8/17/2004	AA23697	474887.20	4606335.27	Sulfate	61
					474887.20	4606335.27	Chloride	49
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	164
					474887.20	4606335.27	Cyanide (Free)	0.005
					474887.20	4606335.27	Cyanide (Total)	0.016
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	< -0.2
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	104
					474887.20	4606335.27	Iron (Total)	972
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	< 1
					474887.20	4606335.27	Manganese (Dissolved)	181
					474887.20	4606335.27	Manganese (Total)	294
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	27.5 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	8.71
					474887.20	4606335.27	Arsenic (Total)	14.3
					474887.20	4606335.27	Barium (Dissolved)	48.7
					474887.20	4606335.27	Barium (Total)	60.4
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	< 1.2
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	< 1
					474887.20	4606335.27	Zinc (Dissolved)	< 3
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	15
					474887.20	4606335.27	Nitrogen, Ammonia	1.5
					474887.20	4606335.27	Phosphorus, Total	0.07
					474887.20	4606335.27	Selenium (Dissolved)	< 2.2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Chemical Oxygen Demand	31.7 (DJ)
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.2
					474887.20	4606335.27	pH	7.8
					474887.20	4606335.27	Solids, Non-filterable Residue	15
					474887.20	4606335.27	Solids (Total) Residue	441
					474887.20	4606335.27	Solids, Filterable Residue	432
					474887.20	4606335.27	Total Organic Carbon	7.1
					474887.20	4606335.27	Nitrogen (Total) Kjeldahl	2.8
					474887.20	4606335.27	Hardness (as CaCO3)	277
					474887.20	4606335.27	Alkalinity (as CaCO3)	199
LMG020-0001	GCR-46	Grand Calumet River	9/21/2004	AA24203	474887.20	4606335.27	Sulfate	84
					474887.20	4606335.27	Chloride	44
					474887.20	4606335.27	Fluoride	0.6
					474887.20	4606335.27	Calcium (as CaCO3)	188
					474887.20	4606335.27	Cyanide (Free)	0.006
					474887.20	4606335.27	Cyanide (Total)	0.015
					474887.20	4606335.27	Cyanide (Chlorine Amenable)	< -0.2
					474887.20	4606335.27	Aluminum (Dissolved)	< 30
					474887.20	4606335.27	Aluminum (Total)	< 50
					474887.20	4606335.27	Iron (Dissolved)	93.5
					474887.20	4606335.27	Iron (Total)	1170
					474887.20	4606335.27	Lead (Dissolved)	< 1
					474887.20	4606335.27	Lead (Total)	< 1
					474887.20	4606335.27	Manganese (Dissolved)	211
					474887.20	4606335.27	Manganese (Total)	361
					474887.20	4606335.27	Mercury (Total)	< 0.2
					474887.20	4606335.27	Nickel (Dissolved)	< 1.4

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					474887.20	4606335.27	Nickel (Total)	< 1.4
					474887.20	4606335.27	Silver (Total)	< 1
					474887.20	4606335.27	Sodium	24.3 (Q)
					474887.20	4606335.27	Arsenic (Dissolved)	8.47
					474887.20	4606335.27	Arsenic (Total)	15.3
					474887.20	4606335.27	Barium (Dissolved)	54.8
					474887.20	4606335.27	Barium (Total)	68.6
					474887.20	4606335.27	Cadmium (Dissolved)	< 1
					474887.20	4606335.27	Cadmium (Total)	< 1
					474887.20	4606335.27	Chromium (Total Dissolved)	< 1.2
					474887.20	4606335.27	Chromium (Total)	< 1.2
					474887.20	4606335.27	Copper (Dissolved)	< 1
					474887.20	4606335.27	Copper (Total)	< 1
					474887.20	4606335.27	Zinc (Total)	< 6
					474887.20	4606335.27	Silica (Molybdate Reactive)	5.5
					474887.20	4606335.27	Nitrogen, Ammonia	1.9
					474887.20	4606335.27	Phosphorus, Total	0.05
					474887.20	4606335.27	Selenium (Dissolved)	< 2.2
					474887.20	4606335.27	Selenium (Total)	< 2.2
					474887.20	4606335.27	Biochemical Oxygen Demand (Total) 5-day	3.6
					474887.20	4606335.27	Chemical Oxygen Demand	37.3
					474887.20	4606335.27	Nitrogen, Nitrate+Nitrite	0.2
					474887.20	4606335.27	pH	7.8
					474887.20	4606335.27	Solids, Non-filterable Residue	15
					474887.20	4606335.27	Solids (Total) Residue	458
					474887.20	4606335.27	Solids, Filterable Residue	433
					474887.20	4606335.27	Total Organic Carbon	7.6
					474887.20	4606335.27	Nitrogen (Total) Kjeldahl	3.4
					474887.20	4606335.27	Hardness (as CaCO3)	299
					474887.20	4606335.27	Alkalinity (as CaCO3)	201
LMG020-0003	IHC-2	Indiana Harbor Canal	1/8/2004	AA20575	461768.31	4611605.09	Sulfate	78
					461768.31	4611605.09	Chloride	82 (fDJ)
					461768.31	4611605.09	Fluoride	0.6
					461768.31	4611605.09	Chromium, Hexavalent	< 10
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	145
					461768.31	4611605.09	Iron (Dissolved)	24.4
					461768.31	4611605.09	Iron (Total)	1240
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	8.47
					461768.31	4611605.09	Manganese (Dissolved)	34
					461768.31	4611605.09	Manganese (Total)	61.2
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.8
					461768.31	4611605.09	Nickel (Total)	2.67
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	49.1 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	< 1.2
					461768.31	4611605.09	Arsenic (Total)	2.57
					461768.31	4611605.09	Barium (Dissolved)	23.6
					461768.31	4611605.09	Barium (Total)	31.9
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	4.88
					461768.31	4611605.09	Chromium (Total)	8.91
					461768.31	4611605.09	Copper (Dissolved)	1.19
					461768.31	4611605.09	Copper (Total)	3.44
					461768.31	4611605.09	Zinc (Dissolved)	8.1
					461768.31	4611605.09	Zinc (Total)	43.7
					461768.31	4611605.09	Silica (Molybdate Reactive)	4
					461768.31	4611605.09	Nitrogen, Ammonia	0.6
					461768.31	4611605.09	Phosphorus, Total	0.06
					461768.31	4611605.09	Selenium (Dissolved)	< 2
					461768.31	4611605.09	Selenium (Total)	< 2
					461768.31	4611605.09	Biochemical Oxygen Demand (Total) 5-day	1.2
					461768.31	4611605.09	Chemical Oxygen Demand	12.2
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	4.8
					461768.31	4611605.09	pH	7.8
					461768.31	4611605.09	Solids, Non-filterable Residue	9
					461768.31	4611605.09	Solids (Total) Residue	406
					461768.31	4611605.09	Solids, Filterable Residue	377
					461768.31	4611605.09	Total Organic Carbon	3.4
					461768.31	4611605.09	Nitrogen (Total) Kjeldahl	1
					461768.31	4611605.09	Hardness (as CaCO3)	210
					461768.31	4611605.09	Alkalinity (as CaCO3)	112
LMG020-0003	IHC-2	Indiana Harbor Canal	2/18/2004	AA20689	461768.31	4611605.09	Sulfate	78
					461768.31	4611605.09	Chloride	65
					461768.31	4611605.09	Fluoride	0.5

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	< 50
					461768.31	4611605.09	Iron (Dissolved)	25.7
					461768.31	4611605.09	Iron (Total)	411
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	3.06
					461768.31	4611605.09	Manganese (Dissolved)	31.4
					461768.31	4611605.09	Manganese (Total)	44
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.82
					461768.31	4611605.09	Nickel (Total)	2.37
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	41.5 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.24
					461768.31	4611605.09	Arsenic (Total)	2.92
					461768.31	4611605.09	Barium (Dissolved)	22.5
					461768.31	4611605.09	Barium (Total)	28.4
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	3.3
					461768.31	4611605.09	Chromium (Total)	2.92
					461768.31	4611605.09	Copper (Dissolved)	1.3
					461768.31	4611605.09	Copper (Total)	2.39
					461768.31	4611605.09	Zinc (Dissolved)	8.67
					461768.31	4611605.09	Zinc (Total)	21
					461768.31	4611605.09	Silica (Molybdate Reactive)	4
					461768.31	4611605.09	Nitrogen, Ammonia	0.8
					461768.31	4611605.09	Phosphorus, Total	0.06
					461768.31	4611605.09	Selenium (Dissolved)	< 2
					461768.31	4611605.09	Selenium (Total)	< 2
					461768.31	4611605.09	Chemical Oxygen Demand	14.8
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	4.2
					461768.31	4611605.09	pH	7.8
					461768.31	4611605.09	Solids, Non-filterable Residue	4
					461768.31	4611605.09	Solids (Total) Residue	383
					461768.31	4611605.09	Solids, Filterable Residue	360
					461768.31	4611605.09	Hardness (as CaCO3)	215
					461768.31	4611605.09	Alkalinity (as CaCO3)	123
					461768.31	4611605.09	Total Organic Carbon	3.5
LMG020-0003	IHC-2	Indiana Harbor Canal	5/26/2004	AA22556	461768.31	4611605.09	Sulfate	92
					461768.31	4611605.09	Chloride	65
					461768.31	4611605.09	Fluoride	0.4
					461768.31	4611605.09	Chromium, Hexavalent	< 10
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	78.5
					461768.31	4611605.09	Iron (Dissolved)	35.9
					461768.31	4611605.09	Iron (Total)	638
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	4.77
					461768.31	4611605.09	Manganese (Dissolved)	36.2
					461768.31	4611605.09	Manganese (Total)	53.2
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	2.06
					461768.31	4611605.09	Nickel (Total)	2.68
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	38.9 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.72
					461768.31	4611605.09	Arsenic (Total)	2.32
					461768.31	4611605.09	Barium (Dissolved)	24
					461768.31	4611605.09	Barium (Total)	29.1
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	1.3
					461768.31	4611605.09	Chromium (Total)	2.85
					461768.31	4611605.09	Copper (Dissolved)	1.21
					461768.31	4611605.09	Copper (Total)	2.62
					461768.31	4611605.09	Zinc (Dissolved)	13.6
					461768.31	4611605.09	Zinc (Total)	29.1
					461768.31	4611605.09	Silica (Molybdate Reactive)	5
					461768.31	4611605.09	Nitrogen, Ammonia	0.4
					461768.31	4611605.09	Phosphorus, Total	0.08
					461768.31	4611605.09	Selenium (Dissolved)	< 2.2
					461768.31	4611605.09	Selenium (Total)	< 2.2
					461768.31	4611605.09	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					461768.31	4611605.09	Chemical Oxygen Demand	12.4
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	3.7
					461768.31	4611605.09	pH	7.7

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461768.31	4611605.09	Solids, Non-filterable Residue	< 4
					461768.31	4611605.09	Solids (Total) Residue	413
					461768.31	4611605.09	Solids, Filterable Residue	378 (HJ)
					461768.31	4611605.09	Total Organic Carbon	3.6
					461768.31	4611605.09	Nitrogen (Total) Kjeldahl	1.2
					461768.31	4611605.09	Hardness (as CaCO3)	214
					461768.31	4611605.09	Alkalinity (as CaCO3)	126
LMG020-0003	IHC-2	Indiana Harbor Canal	3/30/2004	AA21244	461768.31	4611605.09	Sulfate	64
					461768.31	4611605.09	Chloride	66
					461768.31	4611605.09	Fluoride	0.5
					461768.31	4611605.09	Chromium, Hexavalent	< 10
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	90.9
					461768.31	4611605.09	Iron (Dissolved)	26
					461768.31	4611605.09	Iron (Total)	960
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	7.65
					461768.31	4611605.09	Manganese (Dissolved)	33.9
					461768.31	4611605.09	Manganese (Total)	70.6
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.55
					461768.31	4611605.09	Nickel (Total)	2.66
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	36.6 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	2
					461768.31	4611605.09	Arsenic (Total)	2.91
					461768.31	4611605.09	Barium (Dissolved)	23.3
					461768.31	4611605.09	Barium (Total)	33
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	< 1.2
					461768.31	4611605.09	Chromium (Total)	4.37
					461768.31	4611605.09	Copper (Dissolved)	< 1
					461768.31	4611605.09	Copper (Total)	3.72
					461768.31	4611605.09	Zinc (Dissolved)	9.42
					461768.31	4611605.09	Zinc (Total)	37.6
					461768.31	4611605.09	Silica (Molybdate Reactive)	5
					461768.31	4611605.09	Nitrogen, Ammonia	0.6
					461768.31	4611605.09	Phosphorus, Total	0.07
					461768.31	4611605.09	Selenium (Dissolved)	3.88
					461768.31	4611605.09	Selenium (Total)	< 2.2
					461768.31	4611605.09	Biochemical Oxygen Demand (Total) 5-day	1.5
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	3.6
					461768.31	4611605.09	pH	7.7
					461768.31	4611605.09	Solids, Non-filterable Residue	5
					461768.31	4611605.09	Solids (Total) Residue	374
					461768.31	4611605.09	Solids, Filterable Residue	364
					461768.31	4611605.09	Total Organic Carbon	3.6
					461768.31	4611605.09	Hardness (as CaCO3)	221
					461768.31	4611605.09	Alkalinity (as CaCO3)	115
LMG020-0003	IHC-2	Indiana Harbor Canal	4/21/2004	AA21922	461768.31	4611605.09	Sulfate	63
					461768.31	4611605.09	Chloride	62
					461768.31	4611605.09	Fluoride	0.5
					461768.31	4611605.09	Chromium, Hexavalent	< 10
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	146
					461768.31	4611605.09	Iron (Dissolved)	19.3
					461768.31	4611605.09	Iron (Total)	1150
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	7.97
					461768.31	4611605.09	Manganese (Dissolved)	35.5
					461768.31	4611605.09	Manganese (Total)	65
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.88
					461768.31	4611605.09	Nickel (Total)	2.96
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	36.7 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.7
					461768.31	4611605.09	Arsenic (Total)	2.65
					461768.31	4611605.09	Barium (Dissolved)	23.7
					461768.31	4611605.09	Barium (Total)	32.2
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	3.65
					461768.31	4611605.09	Chromium (Total)	8.35
					461768.31	4611605.09	Copper (Dissolved)	1.24
					461768.31	4611605.09	Copper (Total)	3.45
					461768.31	4611605.09	Zinc (Dissolved)	11.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461768.31	4611605.09	Zinc (Total)	37.4
					461768.31	4611605.09	Silica (Molybdate Reactive)	4
					461768.31	4611605.09	Nitrogen, Ammonia	0.5
					461768.31	4611605.09	Phosphorus, Total	0.08
					461768.31	4611605.09	Selenium (Dissolved)	< 2.2
					461768.31	4611605.09	Selenium (Total)	< 2.2
					461768.31	4611605.09	Chemical Oxygen Demand	12.2
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	3.4 (DJ)
					461768.31	4611605.09	pH	7.8
					461768.31	4611605.09	Solids, Non-filterable Residue	6
					461768.31	4611605.09	Solids (Total) Residue	361
					461768.31	4611605.09	Solids, Filterable Residue	349
					461768.31	4611605.09	Total Organic Carbon	3.1
					461768.31	4611605.09	Nitrogen (Total) Kjeldahl	1
					461768.31	4611605.09	Hardness (as CaCO3)	196
					461768.31	4611605.09	Alkalinity (as CaCO3)	119
LMG020-0003	IHC-2	Indiana Harbor Canal	6/16/2004	AA23117	461768.31	4611605.09	Sulfate	51
					461768.31	4611605.09	Chloride	53
					461768.31	4611605.09	Fluoride	0.5
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	73.5
					461768.31	4611605.09	Iron (Dissolved)	35.5
					461768.31	4611605.09	Iron (Total)	543
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	4.95
					461768.31	4611605.09	Manganese (Dissolved)	26.6
					461768.31	4611605.09	Manganese (Total)	45.7
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.68
					461768.31	4611605.09	Nickel (Total)	2.04
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	36.1 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.89
					461768.31	4611605.09	Arsenic (Total)	2.07
					461768.31	4611605.09	Barium (Dissolved)	24.5
					461768.31	4611605.09	Barium (Total)	28.3
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	2.65
					461768.31	4611605.09	Chromium (Total)	3.55
					461768.31	4611605.09	Copper (Dissolved)	1.13
					461768.31	4611605.09	Copper (Total)	2.42
					461768.31	4611605.09	Zinc (Dissolved)	4.13
					461768.31	4611605.09	Zinc (Total)	24.6
					461768.31	4611605.09	Silica (Molybdate Reactive)	4.7
					461768.31	4611605.09	Nitrogen, Ammonia	0.3
					461768.31	4611605.09	Phosphorus, Total	0.07
					461768.31	4611605.09	Selenium (Dissolved)	< 2.2
					461768.31	4611605.09	Selenium (Total)	2.56
					461768.31	4611605.09	Chemical Oxygen Demand	9.3
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	2.9
					461768.31	4611605.09	pH	7.7
					461768.31	4611605.09	Solids, Non-filterable Residue	5
					461768.31	4611605.09	Solids (Total) Residue	362
					461768.31	4611605.09	Solids, Filterable Residue	330
					461768.31	4611605.09	Total Organic Carbon	3.9
					461768.31	4611605.09	Hardness (as CaCO3)	195
					461768.31	4611605.09	Alkalinity (as CaCO3)	118
LMG020-0003	IHC-2	Indiana Harbor Canal	7/19/2004	AA23268	461768.31	4611605.09	Sulfate	49
					461768.31	4611605.09	Chloride	50
					461768.31	4611605.09	Fluoride	0.5
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	56.5
					461768.31	4611605.09	Iron (Dissolved)	30.2
					461768.31	4611605.09	Iron (Total)	341
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	3.25
					461768.31	4611605.09	Manganese (Dissolved)	4.16
					461768.31	4611605.09	Manganese (Total)	24.4
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.92
					461768.31	4611605.09	Nickel (Total)	2.07
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	28.4 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.33
					461768.31	4611605.09	Arsenic (Total)	2.36
					461768.31	4611605.09	Barium (Dissolved)	20.1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461768.31	4611605.09	Barium (Total)	27
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	2.9
					461768.31	4611605.09	Chromium (Total)	2.19
					461768.31	4611605.09	Copper (Dissolved)	1.37
					461768.31	4611605.09	Copper (Total)	2.34
					461768.31	4611605.09	Zinc (Dissolved)	7.66
					461768.31	4611605.09	Zinc (Total)	17.8
					461768.31	4611605.09	Silica (Molybdate Reactive)	3
					461768.31	4611605.09	Nitrogen, Ammonia	< 0.1
					461768.31	4611605.09	Phosphorus, Total	0.05
					461768.31	4611605.09	Selenium (Dissolved)	< 2.2
					461768.31	4611605.09	Selenium (Total)	< 2.2
					461768.31	4611605.09	Biochemical Oxygen Demand (Total) 5-day	1.1
					461768.31	4611605.09	Chemical Oxygen Demand	13.1
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	3
					461768.31	4611605.09	pH	7.9
					461768.31	4611605.09	Solids, Non-filterable Residue	5
					461768.31	4611605.09	Solids (Total) Residue	334
					461768.31	4611605.09	Solids, Filterable Residue	286
					461768.31	4611605.09	Total Organic Carbon	3.2
					461768.31	4611605.09	Nitrogen (Total) Kjeldahl	0.6
					461768.31	4611605.09	Hardness (as CaCO3)	174
					461768.31	4611605.09	Alkalinity (as CaCO3)	109
LMG020-0003	IHC-2	Indiana Harbor Canal	8/16/2004	AA23690	461768.31	4611605.09	Sulfate	58
					461768.31	4611605.09	Chloride	54
					461768.31	4611605.09	Fluoride	0.6
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	69.4
					461768.31	4611605.09	Iron (Dissolved)	22.4
					461768.31	4611605.09	Iron (Total)	569
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	4.77
					461768.31	4611605.09	Manganese (Dissolved)	12.8
					461768.31	4611605.09	Manganese (Total)	36.8
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.64
					461768.31	4611605.09	Nickel (Total)	2.05
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	32.1 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.69
					461768.31	4611605.09	Arsenic (Total)	2.28
					461768.31	4611605.09	Barium (Dissolved)	21.8
					461768.31	4611605.09	Barium (Total)	26.7
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	< 1.2
					461768.31	4611605.09	Chromium (Total)	2.84
					461768.31	4611605.09	Copper (Dissolved)	1.25
					461768.31	4611605.09	Copper (Total)	2.59
					461768.31	4611605.09	Zinc (Dissolved)	5.94
					461768.31	4611605.09	Zinc (Total)	24.7
					461768.31	4611605.09	Silica (Molybdate Reactive)	3
					461768.31	4611605.09	Nitrogen, Ammonia	0.2
					461768.31	4611605.09	Phosphorus, Total	0.08
					461768.31	4611605.09	Selenium (Dissolved)	< 2.2
					461768.31	4611605.09	Selenium (Total)	< 2.2
					461768.31	4611605.09	Chemical Oxygen Demand	11.1
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	3.8
					461768.31	4611605.09	pH	7.8
					461768.31	4611605.09	Solids, Non-filterable Residue	6
					461768.31	4611605.09	Solids (Total) Residue	356
					461768.31	4611605.09	Solids, Filterable Residue	346
					461768.31	4611605.09	Total Organic Carbon	3.1
					461768.31	4611605.09	Nitrogen (Total) Kjeldahl	0.8
					461768.31	4611605.09	Hardness (as CaCO3)	201
					461768.31	4611605.09	Alkalinity (as CaCO3)	118
LMG020-0003	IHC-2	Indiana Harbor Canal	9/20/2004	AA24196	461768.31	4611605.09	Sulfate	58
					461768.31	4611605.09	Chloride	51
					461768.31	4611605.09	Fluoride	0.4
					461768.31	4611605.09	Cyanide (Total)	< 0.005
					461768.31	4611605.09	Aluminum (Dissolved)	< 30
					461768.31	4611605.09	Aluminum (Total)	91.9
					461768.31	4611605.09	Iron (Dissolved)	19
					461768.31	4611605.09	Iron (Total)	563
					461768.31	4611605.09	Lead (Dissolved)	< 1
					461768.31	4611605.09	Lead (Total)	4.85

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461768.31	4611605.09	Manganese (Dissolved)	8.54
					461768.31	4611605.09	Manganese (Total)	36.9
					461768.31	4611605.09	Mercury (Total)	< 0.2
					461768.31	4611605.09	Nickel (Dissolved)	1.58
					461768.31	4611605.09	Nickel (Total)	2.09
					461768.31	4611605.09	Silver (Total)	< 1
					461768.31	4611605.09	Sodium	32.9 (Q)
					461768.31	4611605.09	Arsenic (Dissolved)	1.78
					461768.31	4611605.09	Arsenic (Total)	1.83
					461768.31	4611605.09	Barium (Dissolved)	21.7
					461768.31	4611605.09	Barium (Total)	27
					461768.31	4611605.09	Cadmium (Dissolved)	< 1
					461768.31	4611605.09	Cadmium (Total)	< 1
					461768.31	4611605.09	Chromium (Total Dissolved)	< 1.2
					461768.31	4611605.09	Chromium (Total)	2.9
					461768.31	4611605.09	Copper (Dissolved)	1.41
					461768.31	4611605.09	Copper (Total)	2.81
					461768.31	4611605.09	Zinc (Total)	24
					461768.31	4611605.09	Silica (Molybdate Reactive)	3.7
					461768.31	4611605.09	Nitrogen, Ammonia	0.1
					461768.31	4611605.09	Phosphorus, Total	0.07
					461768.31	4611605.09	Selenium (Dissolved)	< 2.2
					461768.31	4611605.09	Selenium (Total)	< 2.2
					461768.31	4611605.09	Biochemical Oxygen Demand (Total) 5-day	< 1
					461768.31	4611605.09	Chemical Oxygen Demand	10.6
					461768.31	4611605.09	Nitrogen, Nitrate+Nitrite	2.7
					461768.31	4611605.09	pH	7.8
					461768.31	4611605.09	Solids, Non-filterable Residue	7
					461768.31	4611605.09	Solids (Total) Residue	340
					461768.31	4611605.09	Solids, Filterable Residue	317
					461768.31	4611605.09	Total Organic Carbon	2.8
					461768.31	4611605.09	Nitrogen (Total) Kjeldahl	0.7
					461768.31	4611605.09	Hardness (as CaCO3)	199
					461768.31	4611605.09	Alkalinity (as CaCO3)	110
LMG020-0004	IHC-3S	Indiana Harbor Canal	1/7/2004	AA20578	460764.17	4609852.60	Sulfate	75
					460764.17	4609852.60	Chloride	14 (fDJ)
					460764.17	4609852.60	Fluoride	0.6
					460764.17	4609852.60	Calcium (as CaCO3)	134
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	152
					460764.17	4609852.60	Iron (Dissolved)	28.5
					460764.17	4609852.60	Iron (Total)	1430
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	10.9
					460764.17	4609852.60	Manganese (Dissolved)	28.8
					460764.17	4609852.60	Manganese (Total)	54.9
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.58
					460764.17	4609852.60	Nickel (Total)	2.63
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	46.1 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.24
					460764.17	4609852.60	Arsenic (Total)	2.69
					460764.17	4609852.60	Barium (Dissolved)	23.6
					460764.17	4609852.60	Barium (Total)	29.2
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	2.19
					460764.17	4609852.60	Chromium (Total)	7.55
					460764.17	4609852.60	Copper (Dissolved)	1.19
					460764.17	4609852.60	Copper (Total)	4.3
					460764.17	4609852.60	Zinc (Dissolved)	7.06
					460764.17	4609852.60	Zinc (Total)	47.2
					460764.17	4609852.60	Silica (Molybdate Reactive)	4
					460764.17	4609852.60	Nitrogen, Ammonia	0.6
					460764.17	4609852.60	Phosphorus, Total	0.07
					460764.17	4609852.60	Selenium (Dissolved)	< 2
					460764.17	4609852.60	Selenium (Total)	< 2
					460764.17	4609852.60	Biochemical Oxygen Demand (Total) 5-day	1.5
					460764.17	4609852.60	Chemical Oxygen Demand	13.5
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	4.8
					460764.17	4609852.60	pH	7.8
					460764.17	4609852.60	Solids, Non-filterable Residue	10
					460764.17	4609852.60	Solids (Total) Residue	400
					460764.17	4609852.60	Solids, Filterable Residue	368
					460764.17	4609852.60	Total Organic Carbon	3.4
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	1.2
					460764.17	4609852.60	Hardness (as CaCO3)	220

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					460764.17	4609852.60	Alkalinity (as CaCO3)	112
LMG020-0004	IHC-3S	Indiana Harbor Canal	2/18/2004	AA20686	460764.17	4609852.60	Sulfate	61
					460764.17	4609852.60	Chloride	62
					460764.17	4609852.60	Fluoride	0.5
					460764.17	4609852.60	Calcium (as CaCO3)	139
					460764.17	4609852.60	Cyanide (Free)	< 0.005
					460764.17	4609852.60	Cyanide (Total)	0.006
					460764.17	4609852.60	Cyanide (Chlorine Amenable)	0.006
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	126
					460764.17	4609852.60	Iron (Dissolved)	27.3
					460764.17	4609852.60	Iron (Total)	1420
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	11
					460764.17	4609852.60	Manganese (Dissolved)	33.2
					460764.17	4609852.60	Manganese (Total)	58.1
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.62
					460764.17	4609852.60	Nickel (Total)	2.77
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	35.5 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.26
					460764.17	4609852.60	Arsenic (Total)	3.52
					460764.17	4609852.60	Barium (Dissolved)	22.6
					460764.17	4609852.60	Barium (Total)	30.2
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	3
					460764.17	4609852.60	Chromium (Total)	5.6
					460764.17	4609852.60	Copper (Dissolved)	1.13
					460764.17	4609852.60	Copper (Total)	4.26
					460764.17	4609852.60	Zinc (Dissolved)	7.45
					460764.17	4609852.60	Zinc (Total)	45.1
					460764.17	4609852.60	Silica (Molybdate Reactive)	4
					460764.17	4609852.60	Nitrogen, Ammonia	1.1
					460764.17	4609852.60	Phosphorus, Total	0.09
					460764.17	4609852.60	Selenium (Dissolved)	< 2
					460764.17	4609852.60	Selenium (Total)	2.42
					460764.17	4609852.60	Chemical Oxygen Demand	20.8
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	4.1
					460764.17	4609852.60	pH	7.9
					460764.17	4609852.60	Solids, Non-filterable Residue	9
					460764.17	4609852.60	Solids (Total) Residue	365
					460764.17	4609852.60	Solids, Filterable Residue	333
					460764.17	4609852.60	Hardness (as CaCO3)	213
					460764.17	4609852.60	Alkalinity (as CaCO3)	122
					460764.17	4609852.60	Total Organic Carbon	3.3
LMG020-0004	IHC-3S	Indiana Harbor Canal	5/26/2004	AA22553	460764.17	4609852.60	Sulfate	75
					460764.17	4609852.60	Chloride	61
					460764.17	4609852.60	Fluoride	0.4
					460764.17	4609852.60	Calcium (as CaCO3)	139
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	106
					460764.17	4609852.60	Iron (Dissolved)	43.9
					460764.17	4609852.60	Iron (Total)	1090
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	6.43
					460764.17	4609852.60	Manganese (Dissolved)	37.1
					460764.17	4609852.60	Manganese (Total)	55.8
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.67
					460764.17	4609852.60	Nickel (Total)	2.25
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	38.9 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	2.13
					460764.17	4609852.60	Arsenic (Total)	2.64
					460764.17	4609852.60	Barium (Dissolved)	23.1
					460764.17	4609852.60	Barium (Total)	28.1
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	1.27
					460764.17	4609852.60	Chromium (Total)	3.3
					460764.17	4609852.60	Copper (Dissolved)	1.28
					460764.17	4609852.60	Copper (Total)	3.12
					460764.17	4609852.60	Zinc (Dissolved)	14.1
					460764.17	4609852.60	Zinc (Total)	36.2
					460764.17	4609852.60	Silica (Molybdate Reactive)	5
					460764.17	4609852.60	Nitrogen, Ammonia	0.5

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					460764.17	4609852.60	Phosphorus, Total	0.07
					460764.17	4609852.60	Selenium (Dissolved)	< 2.2
					460764.17	4609852.60	Selenium (Total)	< 2.2
					460764.17	4609852.60	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					460764.17	4609852.60	Chemical Oxygen Demand	11.9
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	3.7
					460764.17	4609852.60	pH	7.7
					460764.17	4609852.60	Solids, Non-filterable Residue	< 4
					460764.17	4609852.60	Solids (Total) Residue	401
					460764.17	4609852.60	Solids, Filterable Residue	360
					460764.17	4609852.60	Total Organic Carbon	2.9
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	1
					460764.17	4609852.60	Hardness (as CaCO3)	211
					460764.17	4609852.60	Alkalinity (as CaCO3)	125
LMG020-0004	IHC-3S	Indiana Harbor Canal	3/30/2004	AA21241	460764.17	4609852.60	Sulfate	64
					460764.17	4609852.60	Chloride	69
					460764.17	4609852.60	Fluoride	0.6
					460764.17	4609852.60	Calcium (as CaCO3)	159
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	114
					460764.17	4609852.60	Iron (Dissolved)	32.1
					460764.17	4609852.60	Iron (Total)	1430
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	9.46
					460764.17	4609852.60	Manganese (Dissolved)	36.3
					460764.17	4609852.60	Manganese (Total)	73.4
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	< 1.4
					460764.17	4609852.60	Nickel (Total)	2.41
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	38 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.58
					460764.17	4609852.60	Arsenic (Total)	3.33
					460764.17	4609852.60	Barium (Dissolved)	23
					460764.17	4609852.60	Barium (Total)	34.4
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	< 1.2
					460764.17	4609852.60	Chromium (Total)	4.21
					460764.17	4609852.60	Copper (Dissolved)	1.03
					460764.17	4609852.60	Copper (Total)	3.56
					460764.17	4609852.60	Zinc (Dissolved)	10.3
					460764.17	4609852.60	Zinc (Total)	45
					460764.17	4609852.60	Silica (Molybdate Reactive)	5
					460764.17	4609852.60	Nitrogen, Ammonia	0.7
					460764.17	4609852.60	Phosphorus, Total	0.08
					460764.17	4609852.60	Selenium (Dissolved)	< 2
					460764.17	4609852.60	Selenium (Total)	2.32
					460764.17	4609852.60	Biochemical Oxygen Demand (Total) 5-day	1.5
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	4.2
					460764.17	4609852.60	pH	7.7
					460764.17	4609852.60	Solids, Non-filterable Residue	8
					460764.17	4609852.60	Solids (Total) Residue	409
					460764.17	4609852.60	Solids, Filterable Residue	368
					460764.17	4609852.60	Total Organic Carbon	3.7
					460764.17	4609852.60	Hardness (as CaCO3)	209
					460764.17	4609852.60	Alkalinity (as CaCO3)	123
LMG020-0004	IHC-3S	Indiana Harbor Canal	4/21/2004	AA21919	460764.17	4609852.60	Sulfate	61
					460764.17	4609852.60	Chloride	63
					460764.17	4609852.60	Fluoride	0.6
					460764.17	4609852.60	Calcium (as CaCO3)	139
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	244
					460764.17	4609852.60	Iron (Dissolved)	34
					460764.17	4609852.60	Iron (Total)	2940
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	13.5
					460764.17	4609852.60	Manganese (Dissolved)	58
					460764.17	4609852.60	Manganese (Total)	103
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.93
					460764.17	4609852.60	Nickel (Total)	3.29
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	39.3 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.61
					460764.17	4609852.60	Arsenic (Total)	2.9
					460764.17	4609852.60	Barium (Dissolved)	23.9
					460764.17	4609852.60	Barium (Total)	30.7

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	< 1.2
					460764.17	4609852.60	Chromium (Total)	5.7
					460764.17	4609852.60	Copper (Dissolved)	1.36
					460764.17	4609852.60	Copper (Total)	4.99
					460764.17	4609852.60	Zinc (Dissolved)	12.7
					460764.17	4609852.60	Zinc (Total)	57.8
					460764.17	4609852.60	Silica (Molybdate Reactive)	5
					460764.17	4609852.60	Nitrogen, Ammonia	0.7
					460764.17	4609852.60	Phosphorus, Total	0.11
					460764.17	4609852.60	Selenium (Dissolved)	< 2.2
					460764.17	4609852.60	Selenium (Total)	< 2.2
					460764.17	4609852.60	Chemical Oxygen Demand	15.5
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	3.7 (DJ)
					460764.17	4609852.60	pH	7.6
					460764.17	4609852.60	Solids, Non-filterable Residue	13
					460764.17	4609852.60	Solids (Total) Residue	387
					460764.17	4609852.60	Solids, Filterable Residue	348
					460764.17	4609852.60	Total Organic Carbon	4.2
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	1.4
					460764.17	4609852.60	Hardness (as CaCO3)	202
					460764.17	4609852.60	Alkalinity (as CaCO3)	119
LMG020-0004	IHC-3S	Indiana Harbor Canal	6/16/2004	AA23114	460764.17	4609852.60	Sulfate	64
					460764.17	4609852.60	Chloride	59
					460764.17	4609852.60	Fluoride	0.6
					460764.17	4609852.60	Calcium (as CaCO3)	139
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	110
					460764.17	4609852.60	Iron (Dissolved)	46.1
					460764.17	4609852.60	Iron (Total)	1430
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	5.96
					460764.17	4609852.60	Manganese (Dissolved)	31.2
					460764.17	4609852.60	Manganese (Total)	46.7
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.45
					460764.17	4609852.60	Nickel (Total)	1.81
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	39.3 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.43
					460764.17	4609852.60	Arsenic (Total)	2.21
					460764.17	4609852.60	Barium (Dissolved)	24.5
					460764.17	4609852.60	Barium (Total)	26.9
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	2.14
					460764.17	4609852.60	Chromium (Total)	2.76
					460764.17	4609852.60	Copper (Dissolved)	1.17
					460764.17	4609852.60	Copper (Total)	2.54
					460764.17	4609852.60	Zinc (Dissolved)	5.81
					460764.17	4609852.60	Zinc (Total)	34.7
					460764.17	4609852.60	Silica (Molybdate Reactive)	6
					460764.17	4609852.60	Nitrogen, Ammonia	0.3
					460764.17	4609852.60	Phosphorus, Total	0.07
					460764.17	4609852.60	Selenium (Dissolved)	< 2.2
					460764.17	4609852.60	Selenium (Total)	3.8
					460764.17	4609852.60	Chemical Oxygen Demand	15.4
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	3.6
					460764.17	4609852.60	pH	7.6
					460764.17	4609852.60	Solids, Non-filterable Residue	7
					460764.17	4609852.60	Solids (Total) Residue	392
					460764.17	4609852.60	Solids, Filterable Residue	363
					460764.17	4609852.60	Total Organic Carbon	3.5
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	0.9
					460764.17	4609852.60	Hardness (as CaCO3)	213
					460764.17	4609852.60	Alkalinity (as CaCO3)	124
LMG020-0004	IHC-3S	Indiana Harbor Canal	7/19/2004	AA23265	460764.17	4609852.60	Sulfate	52
					460764.17	4609852.60	Chloride	54
					460764.17	4609852.60	Fluoride	0.6
					460764.17	4609852.60	Calcium (as CaCO3)	128
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	< 50
					460764.17	4609852.60	Iron (Dissolved)	40.4
					460764.17	4609852.60	Iron (Total)	151
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	1.49

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					460764.17	4609852.60	Manganese (Dissolved)	17.6
					460764.17	4609852.60	Manganese (Total)	22.7
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.71
					460764.17	4609852.60	Nickel (Total)	1.58
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	29.6 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	< 1.2
					460764.17	4609852.60	Arsenic (Total)	1.98
					460764.17	4609852.60	Barium (Dissolved)	21.8
					460764.17	4609852.60	Barium (Total)	25.3
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	3.38
					460764.17	4609852.60	Chromium (Total)	< 1.2
					460764.17	4609852.60	Copper (Dissolved)	1.23
					460764.17	4609852.60	Copper (Total)	1.55
					460764.17	4609852.60	Zinc (Dissolved)	8.86
					460764.17	4609852.60	Zinc (Total)	12.1
					460764.17	4609852.60	Silica (Molybdate Reactive)	3
					460764.17	4609852.60	Nitrogen, Ammonia	< 0.1
					460764.17	4609852.60	Phosphorus, Total	0.06
					460764.17	4609852.60	Selenium (Dissolved)	< 2.2
					460764.17	4609852.60	Selenium (Total)	< 2.2
					460764.17	4609852.60	Biochemical Oxygen Demand (Total) 5-day	< 1
					460764.17	4609852.60	Chemical Oxygen Demand	11.4
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	4
					460764.17	4609852.60	pH	7.7
					460764.17	4609852.60	Solids, Non-filterable Residue	< 4
					460764.17	4609852.60	Solids (Total) Residue	349
					460764.17	4609852.60	Solids, Filterable Residue	304
					460764.17	4609852.60	Total Organic Carbon	3.2
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	0.6
					460764.17	4609852.60	Hardness (as CaCO3)	186
					460764.17	4609852.60	Alkalinity (as CaCO3)	111
LMG020-0004	IHC-3S	Indiana Harbor Canal	8/16/2004	AA23687	460764.17	4609852.60	Sulfate	60
					460764.17	4609852.60	Chloride	51
					460764.17	4609852.60	Fluoride	0.6
					460764.17	4609852.60	Calcium (as CaCO3)	122
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	62.2
					460764.17	4609852.60	Iron (Dissolved)	33.6
					460764.17	4609852.60	Iron (Total)	578
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	3.88
					460764.17	4609852.60	Manganese (Dissolved)	24.1
					460764.17	4609852.60	Manganese (Total)	34.4
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	1.45
					460764.17	4609852.60	Nickel (Total)	1.74
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	29 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.51
					460764.17	4609852.60	Arsenic (Total)	2.25
					460764.17	4609852.60	Barium (Dissolved)	21.6
					460764.17	4609852.60	Barium (Total)	26.8
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	< 1.2
					460764.17	4609852.60	Chromium (Total)	2.16
					460764.17	4609852.60	Copper (Dissolved)	1.26
					460764.17	4609852.60	Copper (Total)	2.33
					460764.17	4609852.60	Zinc (Dissolved)	4.96
					460764.17	4609852.60	Zinc (Total)	22.2
					460764.17	4609852.60	Silica (Molybdate Reactive)	3
					460764.17	4609852.60	Nitrogen, Ammonia	0.2
					460764.17	4609852.60	Phosphorus, Total	0.08
					460764.17	4609852.60	Selenium (Dissolved)	< 2.2
					460764.17	4609852.60	Selenium (Total)	< 2.2
					460764.17	4609852.60	Chemical Oxygen Demand	11.9
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	4
					460764.17	4609852.60	pH	7.6
					460764.17	4609852.60	Solids, Non-filterable Residue	< 4
					460764.17	4609852.60	Solids (Total) Residue	364
					460764.17	4609852.60	Solids, Filterable Residue	340
					460764.17	4609852.60	Total Organic Carbon	3
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	0.8
					460764.17	4609852.60	Hardness (as CaCO3)	199

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					460764.17	4609852.60	Alkalinity (as CaCO3)	118
LMG020-0004	IHC-3S	Indiana Harbor Canal	9/20/2004	AA24193	460764.17	4609852.60	Sulfate	64
					460764.17	4609852.60	Chloride	51
					460764.17	4609852.60	Fluoride	0.4
					460764.17	4609852.60	Calcium (as CaCO3)	134
					460764.17	4609852.60	Cyanide (Total)	< 0.005
					460764.17	4609852.60	Aluminum (Dissolved)	< 30
					460764.17	4609852.60	Aluminum (Total)	91
					460764.17	4609852.60	Iron (Dissolved)	32.6
					460764.17	4609852.60	Iron (Total)	724
					460764.17	4609852.60	Lead (Dissolved)	< 1
					460764.17	4609852.60	Lead (Total)	4.23
					460764.17	4609852.60	Manganese (Dissolved)	18.4
					460764.17	4609852.60	Manganese (Total)	32
					460764.17	4609852.60	Mercury (Total)	< 0.2
					460764.17	4609852.60	Nickel (Dissolved)	< 1.4
					460764.17	4609852.60	Nickel (Total)	1.91
					460764.17	4609852.60	Silver (Total)	< 1
					460764.17	4609852.60	Sodium	32.5 (Q)
					460764.17	4609852.60	Arsenic (Dissolved)	1.58
					460764.17	4609852.60	Arsenic (Total)	1.86
					460764.17	4609852.60	Barium (Dissolved)	22
					460764.17	4609852.60	Barium (Total)	26
					460764.17	4609852.60	Cadmium (Dissolved)	< 1
					460764.17	4609852.60	Cadmium (Total)	< 1
					460764.17	4609852.60	Chromium (Total Dissolved)	< 1.2
					460764.17	4609852.60	Chromium (Total)	2.34
					460764.17	4609852.60	Copper (Dissolved)	1.33
					460764.17	4609852.60	Copper (Total)	2.62
					460764.17	4609852.60	Zinc (Total)	17.8
					460764.17	4609852.60	Silica (Molybdate Reactive)	3.7
					460764.17	4609852.60	Nitrogen, Ammonia	0.2
					460764.17	4609852.60	Phosphorus, Total	0.08
					460764.17	4609852.60	Selenium (Dissolved)	< 2.2
					460764.17	4609852.60	Selenium (Total)	< 2.2
					460764.17	4609852.60	Biochemical Oxygen Demand (Total) 5-day	< 1
					460764.17	4609852.60	Chemical Oxygen Demand	10.2
					460764.17	4609852.60	Nitrogen, Nitrate+Nitrite	3.3
					460764.17	4609852.60	pH	7.7
					460764.17	4609852.60	Solids, Non-filterable Residue	5
					460764.17	4609852.60	Solids (Total) Residue	350
					460764.17	4609852.60	Solids, Filterable Residue	326
					460764.17	4609852.60	Total Organic Carbon	2.9
					460764.17	4609852.60	Nitrogen (Total) Kjeldahl	0.8
					460764.17	4609852.60	Hardness (as CaCO3)	198
					460764.17	4609852.60	Alkalinity (as CaCO3)	112
LMG020-0005	IHC-3W	Indiana Harbor Canal	1/7/2004	AA20577	459982.07	4610658.77	Sulfate	78
					459982.07	4610658.77	Chloride	74 (fDJ)
					459982.07	4610658.77	Fluoride	0.6
					459982.07	4610658.77	Calcium (as CaCO3)	145
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	61
					459982.07	4610658.77	Iron (Dissolved)	28.8
					459982.07	4610658.77	Iron (Total)	482
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	3.71
					459982.07	4610658.77	Manganese (Dissolved)	37.2
					459982.07	4610658.77	Manganese (Total)	57
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.86
					459982.07	4610658.77	Nickel (Total)	2.3
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	43.8 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	< 1.2
					459982.07	4610658.77	Arsenic (Total)	2.51
					459982.07	4610658.77	Barium (Dissolved)	27.9
					459982.07	4610658.77	Barium (Total)	34.2
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	2.19
					459982.07	4610658.77	Chromium (Total)	1.83
					459982.07	4610658.77	Copper (Dissolved)	1.25
					459982.07	4610658.77	Copper (Total)	2.2
					459982.07	4610658.77	Zinc (Dissolved)	9.45
					459982.07	4610658.77	Zinc (Total)	23.1
					459982.07	4610658.77	Silica (Molybdate Reactive)	5
					459982.07	4610658.77	Nitrogen, Ammonia	0.4
					459982.07	4610658.77	Phosphorus, Total	0.05

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459982.07	4610658.77	Selenium (Dissolved)	< 2
					459982.07	4610658.77	Selenium (Total)	< 2
					459982.07	4610658.77	Biochemical Oxygen Demand (Total) 5-day	1.4
					459982.07	4610658.77	Chemical Oxygen Demand	14.7
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	4.3
					459982.07	4610658.77	pH	7.8
					459982.07	4610658.77	Solids, Non-filterable Residue	5
					459982.07	4610658.77	Solids (Total) Residue	405
					459982.07	4610658.77	Solids, Filterable Residue	378
					459982.07	4610658.77	Total Organic Carbon	4.4
					459982.07	4610658.77	Nitrogen (Total) Kjeldahl	0.9
					459982.07	4610658.77	Hardness (as CaCO3)	233
					459982.07	4610658.77	Alkalinity (as CaCO3)	124
LMG020-0005	IHC-3W	Indiana Harbor Canal	2/18/2004	AA20687	459982.07	4610658.77	Sulfate	76
					459982.07	4610658.77	Chloride	70
					459982.07	4610658.77	Fluoride	0.5
					459982.07	4610658.77	Calcium (as CaCO3)	147
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	108
					459982.07	4610658.77	Iron (Dissolved)	25
					459982.07	4610658.77	Iron (Total)	1040
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	8.23
					459982.07	4610658.77	Manganese (Dissolved)	25.2
					459982.07	4610658.77	Manganese (Total)	65.9
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.68
					459982.07	4610658.77	Nickel (Total)	2.59
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	43.8 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.55
					459982.07	4610658.77	Arsenic (Total)	3.39
					459982.07	4610658.77	Barium (Dissolved)	24.8
					459982.07	4610658.77	Barium (Total)	35.5
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	3.33
					459982.07	4610658.77	Chromium (Total)	4.35
					459982.07	4610658.77	Copper (Dissolved)	1.38
					459982.07	4610658.77	Copper (Total)	3.56
					459982.07	4610658.77	Zinc (Dissolved)	8.61
					459982.07	4610658.77	Zinc (Total)	37.1
					459982.07	4610658.77	Silica (Molybdate Reactive)	4
					459982.07	4610658.77	Nitrogen, Ammonia	0.8
					459982.07	4610658.77	Phosphorus, Total	0.06
					459982.07	4610658.77	Selenium (Dissolved)	< 2
					459982.07	4610658.77	Selenium (Total)	2.17
					459982.07	4610658.77	Chemical Oxygen Demand	18
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	4.1
					459982.07	4610658.77	pH	7.8
					459982.07	4610658.77	Solids, Non-filterable Residue	6
					459982.07	4610658.77	Solids (Total) Residue	393
					459982.07	4610658.77	Solids, Filterable Residue	367
					459982.07	4610658.77	Hardness (as CaCO3)	226
					459982.07	4610658.77	Alkalinity (as CaCO3)	127
					459982.07	4610658.77	Total Organic Carbon	3.9
LMG020-0005	IHC-3W	Indiana Harbor Canal	5/26/2004	AA22554	459982.07	4610658.77	Sulfate	82
					459982.07	4610658.77	Chloride	70
					459982.07	4610658.77	Fluoride	0.4
					459982.07	4610658.77	Calcium (as CaCO3)	147
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	< 50
					459982.07	4610658.77	Iron (Dissolved)	27.7
					459982.07	4610658.77	Iron (Total)	418
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	3.87
					459982.07	4610658.77	Manganese (Dissolved)	20.5
					459982.07	4610658.77	Manganese (Total)	49.6
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	2.09
					459982.07	4610658.77	Nickel (Total)	2.66
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	43.9 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.76
					459982.07	4610658.77	Arsenic (Total)	2.96
					459982.07	4610658.77	Barium (Dissolved)	25
					459982.07	4610658.77	Barium (Total)	30.8

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	1.55
					459982.07	4610658.77	Chromium (Total)	4.28
					459982.07	4610658.77	Copper (Dissolved)	1.29
					459982.07	4610658.77	Copper (Total)	2.21
					459982.07	4610658.77	Zinc (Dissolved)	13
					459982.07	4610658.77	Zinc (Total)	25.4
					459982.07	4610658.77	Silica (Molybdate Reactive)	4
					459982.07	4610658.77	Nitrogen, Ammonia	0.4
					459982.07	4610658.77	Phosphorus, Total	0.09
					459982.07	4610658.77	Selenium (Dissolved)	< 2.2
					459982.07	4610658.77	Selenium (Total)	2.3
					459982.07	4610658.77	Biochemical Oxygen Demand (Total) 5-day	1.3 (QJ)
					459982.07	4610658.77	Chemical Oxygen Demand	16.1
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	3.8
					459982.07	4610658.77	pH	7.7
					459982.07	4610658.77	Solids, Non-filterable Residue	< 4
					459982.07	4610658.77	Solids (Total) Residue	441
					459982.07	4610658.77	Solids, Filterable Residue	389 (HJ)
					459982.07	4610658.77	Total Organic Carbon	4
					459982.07	4610658.77	Nitrogen (Total) Kjeldahl	1.3
					459982.07	4610658.77	Hardness (as CaCO3)	227
					459982.07	4610658.77	Alkalinity (as CaCO3)	128
LMG020-0005	IHC-3W	Indiana Harbor Canal	3/30/2004	AA21242	459982.07	4610658.77	Sulfate	69
					459982.07	4610658.77	Chloride	78
					459982.07	4610658.77	Fluoride	0.5
					459982.07	4610658.77	Calcium (as CaCO3)	151
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	< 50
					459982.07	4610658.77	Iron (Dissolved)	24.7
					459982.07	4610658.77	Iron (Total)	509
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	4.22
					459982.07	4610658.77	Manganese (Dissolved)	30.1
					459982.07	4610658.77	Manganese (Total)	69.7
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.64
					459982.07	4610658.77	Nickel (Total)	2.3
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	43.7 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.46
					459982.07	4610658.77	Arsenic (Total)	2.64
					459982.07	4610658.77	Barium (Dissolved)	24.9
					459982.07	4610658.77	Barium (Total)	31.9
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	< 1.2
					459982.07	4610658.77	Chromium (Total)	1.96
					459982.07	4610658.77	Copper (Dissolved)	1.19
					459982.07	4610658.77	Copper (Total)	2.39
					459982.07	4610658.77	Zinc (Dissolved)	12.7
					459982.07	4610658.77	Zinc (Total)	27.5
					459982.07	4610658.77	Silica (Molybdate Reactive)	5
					459982.07	4610658.77	Nitrogen, Ammonia	0.7
					459982.07	4610658.77	Phosphorus, Total	0.07
					459982.07	4610658.77	Selenium (Dissolved)	< 2
					459982.07	4610658.77	Selenium (Total)	2.47
					459982.07	4610658.77	Biochemical Oxygen Demand (Total) 5-day	2.1
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	4.1
					459982.07	4610658.77	pH	7.7
					459982.07	4610658.77	Solids, Non-filterable Residue	4
					459982.07	4610658.77	Solids (Total) Residue	423
					459982.07	4610658.77	Solids, Filterable Residue	391
					459982.07	4610658.77	Total Organic Carbon	4.4
					459982.07	4610658.77	Hardness (as CaCO3)	236
					459982.07	4610658.77	Alkalinity (as CaCO3)	121
LMG020-0005	IHC-3W	Indiana Harbor Canal	4/21/2004	AA21920	459982.07	4610658.77	Sulfate	78
					459982.07	4610658.77	Chloride	68
					459982.07	4610658.77	Fluoride	0.6
					459982.07	4610658.77	Calcium (as CaCO3)	143
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	80.6
					459982.07	4610658.77	Iron (Dissolved)	11.7
					459982.07	4610658.77	Iron (Total)	497
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	4.3
					459982.07	4610658.77	Manganese (Dissolved)	6.72

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459982.07	4610658.77	Manganese (Total)	54.6
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	2.27
					459982.07	4610658.77	Nickel (Total)	3.12
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	39.6 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.57
					459982.07	4610658.77	Arsenic (Total)	2.29
					459982.07	4610658.77	Barium (Dissolved)	26.4
					459982.07	4610658.77	Barium (Total)	34.3
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	< 1.2
					459982.07	4610658.77	Chromium (Total)	2.03
					459982.07	4610658.77	Copper (Dissolved)	1.3
					459982.07	4610658.77	Copper (Total)	2.56
					459982.07	4610658.77	Zinc (Dissolved)	10.5
					459982.07	4610658.77	Zinc (Total)	22.2
					459982.07	4610658.77	Silica (Molybdate Reactive)	4
					459982.07	4610658.77	Nitrogen, Ammonia	0.5
					459982.07	4610658.77	Phosphorus, Total	0.08
					459982.07	4610658.77	Selenium (Dissolved)	< 2.2
					459982.07	4610658.77	Selenium (Total)	< 2.2
					459982.07	4610658.77	Chemical Oxygen Demand	18
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	3.8 (DJ)
					459982.07	4610658.77	pH	7.9
					459982.07	4610658.77	Solids, Non-filterable Residue	7
					459982.07	4610658.77	Solids (Total) Residue	415
					459982.07	4610658.77	Solids, Filterable Residue	375
					459982.07	4610658.77	Total Organic Carbon	4.5
					459982.07	4610658.77	Nitrogen (Total) Kjeldahl	1.4
					459982.07	4610658.77	Hardness (as CaCO3)	214
					459982.07	4610658.77	Alkalinity (as CaCO3)	125
LMG020-0005	IHC-3W	Indiana Harbor Canal	6/16/2004	AA23115	459982.07	4610658.77	Sulfate	66
					459982.07	4610658.77	Chloride	69
					459982.07	4610658.77	Fluoride	0.6
					459982.07	4610658.77	Calcium (as CaCO3)	147
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	< 50
					459982.07	4610658.77	Iron (Dissolved)	14.9
					459982.07	4610658.77	Iron (Total)	387
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	3.55
					459982.07	4610658.77	Manganese (Dissolved)	4.13
					459982.07	4610658.77	Manganese (Total)	53.9
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.77
					459982.07	4610658.77	Nickel (Total)	1.95
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	44.7 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.81
					459982.07	4610658.77	Arsenic (Total)	1.72
					459982.07	4610658.77	Barium (Dissolved)	28.6
					459982.07	4610658.77	Barium (Total)	34.8
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	2.16
					459982.07	4610658.77	Chromium (Total)	1.61
					459982.07	4610658.77	Copper (Dissolved)	1.21
					459982.07	4610658.77	Copper (Total)	1.96
					459982.07	4610658.77	Zinc (Dissolved)	3.82
					459982.07	4610658.77	Zinc (Total)	18.6
					459982.07	4610658.77	Silica (Molybdate Reactive)	1
					459982.07	4610658.77	Nitrogen, Ammonia	0.2
					459982.07	4610658.77	Phosphorus, Total	0.07
					459982.07	4610658.77	Selenium (Dissolved)	< 2.2
					459982.07	4610658.77	Selenium (Total)	< 2.2
					459982.07	4610658.77	Chemical Oxygen Demand	18.6
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	2.8
					459982.07	4610658.77	pH	7.7
					459982.07	4610658.77	Solids, Non-filterable Residue	8
					459982.07	4610658.77	Solids (Total) Residue	406
					459982.07	4610658.77	Solids, Filterable Residue	389
					459982.07	4610658.77	Total Organic Carbon	5.9
					459982.07	4610658.77	Hardness (as CaCO3)	212
					459982.07	4610658.77	Alkalinity (as CaCO3)	131
LMG020-0005	IHC-3W	Indiana Harbor Canal	7/19/2004	AA23266	459982.07	4610658.77	Sulfate	52
					459982.07	4610658.77	Chloride	51

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459982.07	4610658.77	Fluoride	0.5
					459982.07	4610658.77	Calcium (as CaCO3)	124
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	< 50
					459982.07	4610658.77	Iron (Dissolved)	30.5
					459982.07	4610658.77	Iron (Total)	233
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	2.68
					459982.07	4610658.77	Manganese (Dissolved)	3.34
					459982.07	4610658.77	Manganese (Total)	24.8
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.72
					459982.07	4610658.77	Nickel (Total)	1.81
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	29.8 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.26
					459982.07	4610658.77	Arsenic (Total)	2.14
					459982.07	4610658.77	Barium (Dissolved)	21.4
					459982.07	4610658.77	Barium (Total)	27.3
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	3.32
					459982.07	4610658.77	Chromium (Total)	1.53
					459982.07	4610658.77	Copper (Dissolved)	1.18
					459982.07	4610658.77	Copper (Total)	1.8
					459982.07	4610658.77	Zinc (Dissolved)	7.62
					459982.07	4610658.77	Zinc (Total)	14.6
					459982.07	4610658.77	Silica (Molybdate Reactive)	3
					459982.07	4610658.77	Nitrogen, Ammonia	< 0.1
					459982.07	4610658.77	Phosphorus, Total	0.06
					459982.07	4610658.77	Selenium (Dissolved)	< 2.2
					459982.07	4610658.77	Selenium (Total)	< 2.2
					459982.07	4610658.77	Biochemical Oxygen Demand (Total) 5-day	1.5
					459982.07	4610658.77	Chemical Oxygen Demand	17.1
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	3.3
					459982.07	4610658.77	pH	8.1
					459982.07	4610658.77	Solids, Non-filterable Residue	5
					459982.07	4610658.77	Solids (Total) Residue	345
					459982.07	4610658.77	Solids, Filterable Residue	301
					459982.07	4610658.77	Total Organic Carbon	3.5
					459982.07	4610658.77	Nitrogen (Total) Kjeldahl	0.7
					459982.07	4610658.77	Hardness (as CaCO3)	184
					459982.07	4610658.77	Alkalinity (as CaCO3)	110
LMG020-0005	IHC-3W	Indiana Harbor Canal	8/16/2004	AA23688	459982.07	4610658.77	Sulfate	62
					459982.07	4610658.77	Chloride	56
					459982.07	4610658.77	Fluoride	0.6
					459982.07	4610658.77	Calcium (as CaCO3)	122
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	51.8
					459982.07	4610658.77	Iron (Dissolved)	10
					459982.07	4610658.77	Iron (Total)	380
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	3.09
					459982.07	4610658.77	Manganese (Dissolved)	11.5
					459982.07	4610658.77	Manganese (Total)	31.6
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.51
					459982.07	4610658.77	Nickel (Total)	1.91
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	31.2 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.57
					459982.07	4610658.77	Arsenic (Total)	2.26
					459982.07	4610658.77	Barium (Dissolved)	22.3
					459982.07	4610658.77	Barium (Total)	27.2
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	< 1.2
					459982.07	4610658.77	Chromium (Total)	1.59
					459982.07	4610658.77	Copper (Dissolved)	1.27
					459982.07	4610658.77	Copper (Total)	2.02
					459982.07	4610658.77	Zinc (Dissolved)	5.71
					459982.07	4610658.77	Zinc (Total)	19.4
					459982.07	4610658.77	Silica (Molybdate Reactive)	3
					459982.07	4610658.77	Nitrogen, Ammonia	0.2
					459982.07	4610658.77	Phosphorus, Total	0.13
					459982.07	4610658.77	Selenium (Dissolved)	< 2.2
					459982.07	4610658.77	Selenium (Total)	< 2.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459982.07	4610658.77	Chemical Oxygen Demand	14.8
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	4
					459982.07	4610658.77	pH	7.7
					459982.07	4610658.77	Solids, Non-filterable Residue	5
					459982.07	4610658.77	Solids (Total) Residue	375
					459982.07	4610658.77	Solids, Filterable Residue	334
					459982.07	4610658.77	Total Organic Carbon	3.5
					459982.07	4610658.77	Nitrogen (Total) Kjeldahl	1.1
					459982.07	4610658.77	Hardness (as CaCO3)	210
					459982.07	4610658.77	Alkalinity (as CaCO3)	117
LMG020-0005	IHC-3W	Indiana Harbor Canal	9/20/2004	AA24194	459982.07	4610658.77	Sulfate	61
					459982.07	4610658.77	Chloride	56
					459982.07	4610658.77	Fluoride	0.4
					459982.07	4610658.77	Calcium (as CaCO3)	136
					459982.07	4610658.77	Cyanide (Total)	< 0.005
					459982.07	4610658.77	Aluminum (Dissolved)	< 30
					459982.07	4610658.77	Aluminum (Total)	54.2
					459982.07	4610658.77	Iron (Dissolved)	12.9
					459982.07	4610658.77	Iron (Total)	232
					459982.07	4610658.77	Lead (Dissolved)	< 1
					459982.07	4610658.77	Lead (Total)	2.49
					459982.07	4610658.77	Manganese (Dissolved)	3.26
					459982.07	4610658.77	Manganese (Total)	30.5
					459982.07	4610658.77	Mercury (Total)	< 0.2
					459982.07	4610658.77	Nickel (Dissolved)	1.45
					459982.07	4610658.77	Nickel (Total)	1.91
					459982.07	4610658.77	Silver (Total)	< 1
					459982.07	4610658.77	Sodium	35 (Q)
					459982.07	4610658.77	Arsenic (Dissolved)	1.61
					459982.07	4610658.77	Arsenic (Total)	1.65
					459982.07	4610658.77	Barium (Dissolved)	22.2
					459982.07	4610658.77	Barium (Total)	25.8
					459982.07	4610658.77	Cadmium (Dissolved)	< 1
					459982.07	4610658.77	Cadmium (Total)	< 1
					459982.07	4610658.77	Chromium (Total Dissolved)	< 1.2
					459982.07	4610658.77	Chromium (Total)	1.26
					459982.07	4610658.77	Copper (Dissolved)	1.31
					459982.07	4610658.77	Copper (Total)	1.93
					459982.07	4610658.77	Zinc (Total)	14.4
					459982.07	4610658.77	Silica (Molybdate Reactive)	3.7
					459982.07	4610658.77	Nitrogen, Ammonia	0.2
					459982.07	4610658.77	Phosphorus, Total	0.08
					459982.07	4610658.77	Selenium (Dissolved)	< 2.2
					459982.07	4610658.77	Selenium (Total)	< 2.2
					459982.07	4610658.77	Biochemical Oxygen Demand (Total) 5-day	1
					459982.07	4610658.77	Chemical Oxygen Demand	11
					459982.07	4610658.77	Nitrogen, Nitrate+Nitrite	3.3
					459982.07	4610658.77	pH	7.8
					459982.07	4610658.77	Solids, Non-filterable Residue	4
					459982.07	4610658.77	Solids (Total) Residue	356
					459982.07	4610658.77	Solids, Filterable Residue	336
					459982.07	4610658.77	Total Organic Carbon	3.3
					459982.07	4610658.77	Nitrogen (Total) Kjeldahl	0.6
					459982.07	4610658.77	Hardness (as CaCO3)	200
					459982.07	4610658.77	Alkalinity (as CaCO3)	112
LMG020-0006	LM-W	Lake Michigan	1/7/2004	AA20573	459469.73	4614146.63	Sulfate	26
					459469.73	4614146.63	Chloride	15 (fDJ)
					459469.73	4614146.63	Fluoride	0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	101
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	8.46
					459469.73	4614146.63	Iron (Total)	372
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	9.54
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	8.31
					459469.73	4614146.63	Arsenic (Total)	1.35
					459469.73	4614146.63	Barium (Total)	26.3
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	1.21
					459469.73	4614146.63	Copper (Dissolved)	20.5
					459469.73	4614146.63	Copper (Total)	27.1
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	6.35

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459469.73	4614146.63	Silica (Molybdate Reactive)	2
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2
					459469.73	4614146.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					459469.73	4614146.63	Chemical Oxygen Demand	10.2
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.4
					459469.73	4614146.63	pH	8.1
					459469.73	4614146.63	Solids, Non-filterable Residue	18
					459469.73	4614146.63	Solids (Total) Residue	189
					459469.73	4614146.63	Solids, Filterable Residue	164
					459469.73	4614146.63	Total Organic Carbon	1.8
					459469.73	4614146.63	Nitrogen (Total) Kjeldahl	0.2
					459469.73	4614146.63	Hardness (as CaCO3)	139
					459469.73	4614146.63	Alkalinity (as CaCO3)	98
LMG020-0006	LM-W	Lake Michigan	2/18/2004	AA20691	459469.73	4614146.63	Sulfate	26
					459469.73	4614146.63	Chloride	16
					459469.73	4614146.63	Fluoride	< 0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	106
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	44.4
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	2.4
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	9.79
					459469.73	4614146.63	Arsenic (Total)	2.18
					459469.73	4614146.63	Barium (Total)	27
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	2.27
					459469.73	4614146.63	Copper (Dissolved)	17.1
					459469.73	4614146.63	Copper (Total)	21.2
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	2
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	2.8
					459469.73	4614146.63	Chemical Oxygen Demand	13.2
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.4
					459469.73	4614146.63	pH	8.1
					459469.73	4614146.63	Solids, Non-filterable Residue	< 4
					459469.73	4614146.63	Solids (Total) Residue	192
					459469.73	4614146.63	Solids, Filterable Residue	184
					459469.73	4614146.63	Hardness (as CaCO3)	140
					459469.73	4614146.63	Alkalinity (as CaCO3)	114
					459469.73	4614146.63	Total Organic Carbon	1.9
LMG020-0006	LM-W	Lake Michigan	5/26/2004	AA22558	459469.73	4614146.63	Sulfate	25
					459469.73	4614146.63	Chloride	15
					459469.73	4614146.63	Fluoride	< 0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	92
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	54.5
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	3.4
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	8.48 (Q)
					459469.73	4614146.63	Arsenic (Total)	1.71
					459469.73	4614146.63	Barium (Total)	24.8
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	10.9
					459469.73	4614146.63	Copper (Total)	14.3
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	1
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					459469.73	4614146.63	Chemical Oxygen Demand	< 5
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.3
					459469.73	4614146.63	pH	8.3
					459469.73	4614146.63	Solids, Non-filterable Residue	< 4
					459469.73	4614146.63	Solids (Total) Residue	193
					459469.73	4614146.63	Solids, Filterable Residue	162
					459469.73	4614146.63	Total Organic Carbon	1.2
					459469.73	4614146.63	Nitrogen (Total) Kjeldahl	0.2
					459469.73	4614146.63	Hardness (as CaCO3)	131
					459469.73	4614146.63	Alkalinity (as CaCO3)	104
LMG020-0006	LM-W	Lake Michigan	3/30/2004	AA21246	459469.73	4614146.63	Sulfate	26
					459469.73	4614146.63	Chloride	16
					459469.73	4614146.63	Fluoride	0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	116
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	53.8
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	3.45
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	9.5 (Q)
					459469.73	4614146.63	Arsenic (Total)	1.66
					459469.73	4614146.63	Barium (Total)	24.5
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	29.3
					459469.73	4614146.63	Copper (Total)	37.3
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	2
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.5
					459469.73	4614146.63	pH	8
					459469.73	4614146.63	Solids, Non-filterable Residue	< 4
					459469.73	4614146.63	Solids (Total) Residue	196
					459469.73	4614146.63	Solids, Filterable Residue	190
					459469.73	4614146.63	Total Organic Carbon	1.8
					459469.73	4614146.63	Hardness (as CaCO3)	146
					459469.73	4614146.63	Alkalinity (as CaCO3)	102
LMG020-0006	LM-W	Lake Michigan	4/21/2004	AA21924	459469.73	4614146.63	Sulfate	26
					459469.73	4614146.63	Chloride	19
					459469.73	4614146.63	Fluoride	< 0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	104
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	111
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	1.41
					459469.73	4614146.63	Manganese (Total)	4.96
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	9.98 (Q)
					459469.73	4614146.63	Arsenic (Total)	1.43
					459469.73	4614146.63	Barium (Total)	26.8
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	26.6
					459469.73	4614146.63	Copper (Total)	32.6
					459469.73	4614146.63	Zinc (Dissolved)	3.17
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	2
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Chemical Oxygen Demand	8.2
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.5 (DJ)
					459469.73	4614146.63	pH	8.1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459469.73	4614146.63	Solids, Non-filterable Residue	4
					459469.73	4614146.63	Solids (Total) Residue	199
					459469.73	4614146.63	Solids, Filterable Residue	188
					459469.73	4614146.63	Total Organic Carbon	1.6
					459469.73	4614146.63	Nitrogen (Total) Kjeldahl	0.2
					459469.73	4614146.63	Hardness (as CaCO3)	139
					459469.73	4614146.63	Alkalinity (as CaCO3)	109
LMG020-0006	LM-W	Lake Michigan	6/16/2004	AA23119	459469.73	4614146.63	Sulfate	19
					459469.73	4614146.63	Chloride	14
					459469.73	4614146.63	Fluoride	0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	94
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	26.6
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	2.5
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	7.9 (Q)
					459469.73	4614146.63	Arsenic (Total)	< 1.2
					459469.73	4614146.63	Barium (Total)	22.1
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	11.3
					459469.73	4614146.63	Copper (Total)	13
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	1
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Chemical Oxygen Demand	< 5
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.3
					459469.73	4614146.63	pH	8.3
					459469.73	4614146.63	Solids, Non-filterable Residue	< 4
					459469.73	4614146.63	Solids (Total) Residue	180
					459469.73	4614146.63	Solids, Filterable Residue	171
					459469.73	4614146.63	Total Organic Carbon	1.9
					459469.73	4614146.63	Hardness (as CaCO3)	125
					459469.73	4614146.63	Alkalinity (as CaCO3)	101
LMG020-0006	LM-W	Lake Michigan	7/19/2004	AA23270	459469.73	4614146.63	Sulfate	24
					459469.73	4614146.63	Chloride	13
					459469.73	4614146.63	Fluoride	0.1
					459469.73	4614146.63	Chromium, Hexavalent	< 10
					459469.73	4614146.63	Calcium (as CaCO3)	94
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	29
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	2
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	6.86 (Q)
					459469.73	4614146.63	Arsenic (Total)	1.66
					459469.73	4614146.63	Barium (Total)	22.9
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	18.2
					459469.73	4614146.63	Copper (Total)	21.6
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	1
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					459469.73	4614146.63	Chemical Oxygen Demand	8.2
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.2
					459469.73	4614146.63	pH	8.4
					459469.73	4614146.63	Solids, Non-filterable Residue	4
					459469.73	4614146.63	Solids (Total) Residue	174
					459469.73	4614146.63	Solids, Filterable Residue	158

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					459469.73	4614146.63	Total Organic Carbon	1.8
					459469.73	4614146.63	Nitrogen (Total) Kjeldahl	0.1
					459469.73	4614146.63	Hardness (as CaCO3)	122
					459469.73	4614146.63	Alkalinity (as CaCO3)	101
LMG020-0006	LM-W	Lake Michigan	8/16/2004	AA23692	459469.73	4614146.63	Sulfate	23
					459469.73	4614146.63	Chloride	13
					459469.73	4614146.63	Fluoride	< 0.1
					459469.73	4614146.63	Calcium (as CaCO3)	90
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	45.4
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	2.57
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	7.86 (Q)
					459469.73	4614146.63	Arsenic (Total)	1.27
					459469.73	4614146.63	Barium (Total)	23.9
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	31
					459469.73	4614146.63	Copper (Total)	35.4
					459469.73	4614146.63	Zinc (Dissolved)	< 3
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	1
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Chemical Oxygen Demand	5.8
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.3
					459469.73	4614146.63	pH	8.1
					459469.73	4614146.63	Solids, Non-filterable Residue	< 4
					459469.73	4614146.63	Solids (Total) Residue	180
					459469.73	4614146.63	Solids, Filterable Residue	174
					459469.73	4614146.63	Total Organic Carbon	1.8
					459469.73	4614146.63	Nitrogen (Total) Kjeldahl	0.1
					459469.73	4614146.63	Hardness (as CaCO3)	133
					459469.73	4614146.63	Alkalinity (as CaCO3)	113
LMG020-0006	LM-W	Lake Michigan	9/20/2004	AA24198	459469.73	4614146.63	Sulfate	23
					459469.73	4614146.63	Chloride	13
					459469.73	4614146.63	Fluoride	< 0.1
					459469.73	4614146.63	Calcium (as CaCO3)	96
					459469.73	4614146.63	Cyanide (Total)	< 0.005
					459469.73	4614146.63	Iron (Dissolved)	< 8
					459469.73	4614146.63	Iron (Total)	32.2
					459469.73	4614146.63	Lead (Dissolved)	< 1
					459469.73	4614146.63	Lead (Total)	< 1
					459469.73	4614146.63	Manganese (Dissolved)	< 1
					459469.73	4614146.63	Manganese (Total)	2.68
					459469.73	4614146.63	Mercury (Total)	< 0.2
					459469.73	4614146.63	Nickel (Total)	< 1.4
					459469.73	4614146.63	Silver (Total)	< 1
					459469.73	4614146.63	Sodium	7.55 (Q)
					459469.73	4614146.63	Arsenic (Total)	< 1.2
					459469.73	4614146.63	Barium (Total)	23.8
					459469.73	4614146.63	Cadmium (Total)	< 1
					459469.73	4614146.63	Chromium (Total)	< 1.2
					459469.73	4614146.63	Copper (Dissolved)	32.4
					459469.73	4614146.63	Copper (Total)	38.1
					459469.73	4614146.63	Zinc (Total)	< 6
					459469.73	4614146.63	Silica (Molybdate Reactive)	< 1
					459469.73	4614146.63	Nitrogen, Ammonia	< 0.1
					459469.73	4614146.63	Phosphorus, Total	< 0.03
					459469.73	4614146.63	Selenium (Total)	< 2.2
					459469.73	4614146.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					459469.73	4614146.63	Chemical Oxygen Demand	5.9
					459469.73	4614146.63	Nitrogen, Nitrate+Nitrite	0.3
					459469.73	4614146.63	pH	8.2
					459469.73	4614146.63	Solids, Non-filterable Residue	< 4
					459469.73	4614146.63	Solids (Total) Residue	183
					459469.73	4614146.63	Solids, Filterable Residue	173
					459469.73	4614146.63	Total Organic Carbon	1.7
					459469.73	4614146.63	Nitrogen (Total) Kjeldahl	0.2
					459469.73	4614146.63	Hardness (as CaCO3)	137
					459469.73	4614146.63	Alkalinity (as CaCO3)	103
LMG020-0008	LM-EC	Lake Michigan	1/7/2004	AA20576	463501.56	4611318.50	Sulfate	24

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					463501.56	4611318.50	Chloride	14 (fDJ)
					463501.56	4611318.50	Fluoride	0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	103
					463501.56	4611318.50	Cyanide (Total)	< 0.005
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	333
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	2.29
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	7.41 (Q)
					463501.56	4611318.50	Arsenic (Total)	< 1.2
					463501.56	4611318.50	Barium (Total)	27.4
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	6.82
					463501.56	4611318.50	Copper (Total)	10.1
					463501.56	4611318.50	Zinc (Dissolved)	< 3
					463501.56	4611318.50	Zinc (Total)	< 6
					463501.56	4611318.50	Silica (Molybdate Reactive)	2
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2
					463501.56	4611318.50	Biochemical Oxygen Demand (Total) 5-day	< 1
					463501.56	4611318.50	Chemical Oxygen Demand	6.5
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.4
					463501.56	4611318.50	pH	8.1
					463501.56	4611318.50	Solids, Non-filterable Residue	11
					463501.56	4611318.50	Solids (Total) Residue	181
					463501.56	4611318.50	Solids, Filterable Residue	164
					463501.56	4611318.50	Total Organic Carbon	1.9
					463501.56	4611318.50	Nitrogen (Total) Kjeldahl	0.2
					463501.56	4611318.50	Hardness (as CaCO3)	132
					463501.56	4611318.50	Alkalinity (as CaCO3)	99
LMG020-0008	LM-EC	Lake Michigan	2/18/2004	AA20688	463501.56	4611318.50	Sulfate	25
					463501.56	4611318.50	Chloride	15
					463501.56	4611318.50	Fluoride	< 0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	112
					463501.56	4611318.50	Cyanide (Total)	< 0.005
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	35.8
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	2.45
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	8.44 (Q)
					463501.56	4611318.50	Arsenic (Total)	2.03
					463501.56	4611318.50	Barium (Total)	25.8
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	1.23
					463501.56	4611318.50	Copper (Dissolved)	6.22
					463501.56	4611318.50	Copper (Total)	7.76
					463501.56	4611318.50	Zinc (Dissolved)	3.45
					463501.56	4611318.50	Zinc (Total)	8.89
					463501.56	4611318.50	Silica (Molybdate Reactive)	2
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2
					463501.56	4611318.50	Chemical Oxygen Demand	12.4
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.4
					463501.56	4611318.50	pH	8.1
					463501.56	4611318.50	Solids, Non-filterable Residue	< 4
					463501.56	4611318.50	Solids (Total) Residue	192
					463501.56	4611318.50	Solids, Filterable Residue	179
					463501.56	4611318.50	Hardness (as CaCO3)	139
					463501.56	4611318.50	Alkalinity (as CaCO3)	113
					463501.56	4611318.50	Total Organic Carbon	1.8
LMG020-0008	LM-EC	Lake Michigan	5/26/2004	AA22555	463501.56	4611318.50	Sulfate	25
					463501.56	4611318.50	Chloride	15
					463501.56	4611318.50	Fluoride	< 0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	98
					463501.56	4611318.50	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	122
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	1
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	8.83 (Q)
					463501.56	4611318.50	Arsenic (Total)	2.33
					463501.56	4611318.50	Barium (Total)	23.9
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	7.39
					463501.56	4611318.50	Copper (Total)	19.6
					463501.56	4611318.50	Zinc (Dissolved)	< 3
					463501.56	4611318.50	Zinc (Total)	6.12
					463501.56	4611318.50	Silica (Molybdate Reactive)	1
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					463501.56	4611318.50	Chemical Oxygen Demand	< 5
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.3
					463501.56	4611318.50	pH	8.1
					463501.56	4611318.50	Solids, Non-filterable Residue	< 4
					463501.56	4611318.50	Solids (Total) Residue	197
					463501.56	4611318.50	Solids, Filterable Residue	171 (HJ)
					463501.56	4611318.50	Total Organic Carbon	1.4
					463501.56	4611318.50	Nitrogen (Total) Kjeldahl	0.2
					463501.56	4611318.50	Hardness (as CaCO3)	134
					463501.56	4611318.50	Alkalinity (as CaCO3)	105
LMG020-0008	LM-EC	Lake Michigan	3/30/2004	AA21243	463501.56	4611318.50	Sulfate	26
					463501.56	4611318.50	Chloride	14
					463501.56	4611318.50	Fluoride	< 0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	108
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	95.9
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	2.64
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	7.66 (Q)
					463501.56	4611318.50	Arsenic (Total)	1.91
					463501.56	4611318.50	Barium (Total)	28.1
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	6.9
					463501.56	4611318.50	Copper (Total)	10.9
					463501.56	4611318.50	Zinc (Dissolved)	3.68
					463501.56	4611318.50	Zinc (Total)	< 6
					463501.56	4611318.50	Silica (Molybdate Reactive)	2
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Biochemical Oxygen Demand (Total) 5-day	< 1
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.4
					463501.56	4611318.50	pH	8
					463501.56	4611318.50	Solids, Non-filterable Residue	< 4
					463501.56	4611318.50	Solids (Total) Residue	187
					463501.56	4611318.50	Solids, Filterable Residue	181
					463501.56	4611318.50	Total Organic Carbon	1.7
					463501.56	4611318.50	Hardness (as CaCO3)	138
					463501.56	4611318.50	Alkalinity (as CaCO3)	101
LMG020-0008	LM-EC	Lake Michigan	4/21/2004	AA21921	463501.56	4611318.50	Sulfate	25
					463501.56	4611318.50	Chloride	15
					463501.56	4611318.50	Fluoride	< 0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	110
					463501.56	4611318.50	Cyanide (Free)	< 0.005
					463501.56	4611318.50	Cyanide (Total)	0.006
					463501.56	4611318.50	Cyanide (Chlorine Amenable)	< -0.2
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	126
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					463501.56	4611318.50	Manganese (Dissolved)	2.71
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	8.12 (Q)
					463501.56	4611318.50	Arsenic (Total)	1.7
					463501.56	4611318.50	Barium (Total)	25.9
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	9.3
					463501.56	4611318.50	Copper (Total)	12.8
					463501.56	4611318.50	Zinc (Dissolved)	4.29
					463501.56	4611318.50	Zinc (Total)	< 6
					463501.56	4611318.50	Silica (Molybdate Reactive)	2
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Chemical Oxygen Demand	< 5
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.4 (DJ)
					463501.56	4611318.50	pH	8
					463501.56	4611318.50	Solids, Non-filterable Residue	6
					463501.56	4611318.50	Solids (Total) Residue	189
					463501.56	4611318.50	Solids, Filterable Residue	176
					463501.56	4611318.50	Total Organic Carbon	1.6
					463501.56	4611318.50	Nitrogen (Total) Kjeldahl	0.2
					463501.56	4611318.50	Hardness (as CaCO3)	139
					463501.56	4611318.50	Alkalinity (as CaCO3)	106
LMG020-0008	LM-EC	Lake Michigan	6/16/2004	AA23116	463501.56	4611318.50	Sulfate	20
					463501.56	4611318.50	Chloride	12
					463501.56	4611318.50	Fluoride	0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	94
					463501.56	4611318.50	Cyanide (Total)	< 0.005
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	35.2
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	3.34
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	7 (Q)
					463501.56	4611318.50	Arsenic (Total)	< 1.2
					463501.56	4611318.50	Barium (Total)	22.3
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	9.22
					463501.56	4611318.50	Copper (Total)	10.4
					463501.56	4611318.50	Zinc (Dissolved)	< 3
					463501.56	4611318.50	Zinc (Total)	< 6
					463501.56	4611318.50	Silica (Molybdate Reactive)	1
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Chemical Oxygen Demand	< 5
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.3
					463501.56	4611318.50	pH	8.2
					463501.56	4611318.50	Solids, Non-filterable Residue	< 4
					463501.56	4611318.50	Solids (Total) Residue	178
					463501.56	4611318.50	Solids, Filterable Residue	169
					463501.56	4611318.50	Total Organic Carbon	1.8
					463501.56	4611318.50	Hardness (as CaCO3)	126
					463501.56	4611318.50	Alkalinity (as CaCO3)	100
LMG020-0008	LM-EC	Lake Michigan	7/19/2004	AA23267	463501.56	4611318.50	Sulfate	23
					463501.56	4611318.50	Chloride	13
					463501.56	4611318.50	Fluoride	0.1
					463501.56	4611318.50	Chromium, Hexavalent	< 10
					463501.56	4611318.50	Calcium (as CaCO3)	90
					463501.56	4611318.50	Cyanide (Total)	< 0.005
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	46.2
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	1.95
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	7.52 (Q)
					463501.56	4611318.50	Arsenic (Total)	1.44

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					463501.56	4611318.50	Barium (Total)	22.2
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	12.3
					463501.56	4611318.50	Copper (Total)	15.9
					463501.56	4611318.50	Zinc (Dissolved)	< 3
					463501.56	4611318.50	Zinc (Total)	< 6
					463501.56	4611318.50	Silica (Molybdate Reactive)	1
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Biochemical Oxygen Demand (Total) 5-day	< 1
					463501.56	4611318.50	Chemical Oxygen Demand	5.7
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.3
					463501.56	4611318.50	pH	8.2
					463501.56	4611318.50	Solids, Non-filterable Residue	4
					463501.56	4611318.50	Solids (Total) Residue	178
					463501.56	4611318.50	Solids, Filterable Residue	161
					463501.56	4611318.50	Total Organic Carbon	1.9
					463501.56	4611318.50	Nitrogen (Total) Kjeldahl	0.2
					463501.56	4611318.50	Hardness (as CaCO3)	126
					463501.56	4611318.50	Alkalinity (as CaCO3)	97
LMG020-0008	LM-EC	Lake Michigan	8/16/2004	AA23689	463501.56	4611318.50	Sulfate	25
					463501.56	4611318.50	Chloride	12
					463501.56	4611318.50	Fluoride	0.1
					463501.56	4611318.50	Calcium (as CaCO3)	96
					463501.56	4611318.50	Cyanide (Total)	< 0.005
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	61.6
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	2.45
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	7.3 (Q)
					463501.56	4611318.50	Arsenic (Total)	1.44
					463501.56	4611318.50	Barium (Total)	24.4
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	14.3
					463501.56	4611318.50	Copper (Total)	18.1
					463501.56	4611318.50	Zinc (Dissolved)	< 3
					463501.56	4611318.50	Zinc (Total)	< 6
					463501.56	4611318.50	Silica (Molybdate Reactive)	1
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Chemical Oxygen Demand	5.8
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.3
					463501.56	4611318.50	pH	8
					463501.56	4611318.50	Solids, Non-filterable Residue	4
					463501.56	4611318.50	Solids (Total) Residue	188
					463501.56	4611318.50	Solids, Filterable Residue	167
					463501.56	4611318.50	Total Organic Carbon	1.8
					463501.56	4611318.50	Nitrogen (Total) Kjeldahl	0.2
					463501.56	4611318.50	Hardness (as CaCO3)	135
					463501.56	4611318.50	Alkalinity (as CaCO3)	113
LMG020-0008	LM-EC	Lake Michigan	9/20/2004	AA24195	463501.56	4611318.50	Sulfate	21
					463501.56	4611318.50	Chloride	12
					463501.56	4611318.50	Fluoride	< 0.1
					463501.56	4611318.50	Calcium (as CaCO3)	96
					463501.56	4611318.50	Cyanide (Total)	< 0.005
					463501.56	4611318.50	Iron (Dissolved)	< 8
					463501.56	4611318.50	Iron (Total)	35.4
					463501.56	4611318.50	Lead (Dissolved)	< 1
					463501.56	4611318.50	Lead (Total)	< 1
					463501.56	4611318.50	Manganese (Dissolved)	2.54
					463501.56	4611318.50	Mercury (Total)	< 0.2
					463501.56	4611318.50	Nickel (Total)	< 1.4
					463501.56	4611318.50	Silver (Total)	< 1
					463501.56	4611318.50	Sodium	6.57 (Q)
					463501.56	4611318.50	Arsenic (Total)	< 1.2
					463501.56	4611318.50	Barium (Total)	22.6
					463501.56	4611318.50	Cadmium (Total)	< 1
					463501.56	4611318.50	Chromium (Total)	< 1.2
					463501.56	4611318.50	Copper (Dissolved)	14.4
					463501.56	4611318.50	Copper (Total)	18.5
					463501.56	4611318.50	Zinc (Total)	< 6

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					463501.56	4611318.50	Silica (Molybdate Reactive)	1.8
					463501.56	4611318.50	Nitrogen, Ammonia	< 0.1
					463501.56	4611318.50	Phosphorus, Total	< 0.03
					463501.56	4611318.50	Selenium (Total)	< 2.2
					463501.56	4611318.50	Biochemical Oxygen Demand (Total) 5-day	< 1
					463501.56	4611318.50	Chemical Oxygen Demand	5.9
					463501.56	4611318.50	Nitrogen, Nitrate+Nitrite	0.3
					463501.56	4611318.50	pH	8
					463501.56	4611318.50	Solids, Non-filterable Residue	< 4
					463501.56	4611318.50	Solids (Total) Residue	179
					463501.56	4611318.50	Solids, Filterable Residue	170
					463501.56	4611318.50	Total Organic Carbon	1.6
					463501.56	4611318.50	Nitrogen (Total) Kjeldahl	0.2
					463501.56	4611318.50	Hardness (as CaCO3)	136
					463501.56	4611318.50	Alkalinity (as CaCO3)	103
LMG020-0009	LM-G	Lake Michigan	1/7/2004	AA20582	471457.75	4605361.20	Sulfate	24
					471457.75	4605361.20	Chloride	46 (fDJ)
					471457.75	4605361.20	Fluoride	0.1
					471457.75	4605361.20	Calcium (as CaCO3)	101
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	135
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	6.6
					471457.75	4605361.20	Arsenic (Total)	1.43
					471457.75	4605361.20	Barium (Total)	25.6
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	70.6
					471457.75	4605361.20	Copper (Total)	90.2
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	2
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2
					471457.75	4605361.20	Biochemical Oxygen Demand (Total) 5-day	< 1
					471457.75	4605361.20	Chemical Oxygen Demand	6.9
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.3
					471457.75	4605361.20	pH	8
					471457.75	4605361.20	Solids, Non-filterable Residue	4
					471457.75	4605361.20	Solids (Total) Residue	171
					471457.75	4605361.20	Solids, Filterable Residue	159
					471457.75	4605361.20	Total Organic Carbon	1.7
					471457.75	4605361.20	Nitrogen (Total) Kjeldahl	0.2
					471457.75	4605361.20	Hardness (as CaCO3)	131
					471457.75	4605361.20	Alkalinity (as CaCO3)	98
LMG020-0009	LM-G	Lake Michigan	2/18/2004	AA20682	471457.75	4605361.20	Sulfate	24
					471457.75	4605361.20	Chloride	14
					471457.75	4605361.20	Fluoride	< 0.1
					471457.75	4605361.20	Calcium (as CaCO3)	112
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	32.5
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	7.62
					471457.75	4605361.20	Arsenic (Total)	2.08
					471457.75	4605361.20	Barium (Total)	26.4
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	83
					471457.75	4605361.20	Copper (Total)	101
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	2.1
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2
					471457.75	4605361.20	Chemical Oxygen Demand	7.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.4
					471457.75	4605361.20	pH	8
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	186
					471457.75	4605361.20	Solids, Filterable Residue	175
					471457.75	4605361.20	Hardness (as CaCO3)	138
					471457.75	4605361.20	Alkalinity (as CaCO3)	111
					471457.75	4605361.20	Total Organic Carbon	1.8
LMG020-0009	LM-G	Lake Michigan	5/26/2004	AA22549	471457.75	4605361.20	Sulfate	23
					471457.75	4605361.20	Chloride	14
					471457.75	4605361.20	Fluoride	< 0.1
					471457.75	4605361.20	Calcium (as CaCO3)	104
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	20.8
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	7.69 (Q)
					471457.75	4605361.20	Arsenic (Total)	1.28
					471457.75	4605361.20	Barium (Total)	21.6
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	59.9
					471457.75	4605361.20	Copper (Total)	69.7
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	1
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					471457.75	4605361.20	Chemical Oxygen Demand	14.8
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.3
					471457.75	4605361.20	pH	8
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	188
					471457.75	4605361.20	Solids, Filterable Residue	166
					471457.75	4605361.20	Total Organic Carbon	1.3
					471457.75	4605361.20	Nitrogen (Total) Kjeldahl	0.2
					471457.75	4605361.20	Hardness (as CaCO3)	127
					471457.75	4605361.20	Alkalinity (as CaCO3)	104
LMG020-0009	LM-G	Lake Michigan	3/30/2004	AA21237	471457.75	4605361.20	Sulfate	23
					471457.75	4605361.20	Chloride	12
					471457.75	4605361.20	Fluoride	< 0.1
					471457.75	4605361.20	Calcium (as CaCO3)	104
					471457.75	4605361.20	Iron (Dissolved)	9.3
					471457.75	4605361.20	Iron (Total)	40.4
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	6.35 (Q)
					471457.75	4605361.20	Arsenic (Total)	1.53
					471457.75	4605361.20	Barium (Total)	27.4
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	91.3
					471457.75	4605361.20	Copper (Total)	133
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	2.1
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Biochemical Oxygen Demand (Total) 5-day	< 1
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.3
					471457.75	4605361.20	pH	7.9
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	175
					471457.75	4605361.20	Solids, Filterable Residue	171
					471457.75	4605361.20	Total Organic Carbon	1.7
					471457.75	4605361.20	Hardness (as CaCO3)	135
					471457.75	4605361.20	Alkalinity (as CaCO3)	100

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
LMG020-0009	LM-G	Lake Michigan	4/22/2004	AA21915	471457.75	4605361.20	Sulfate	25
					471457.75	4605361.20	Chloride	14
					471457.75	4605361.20	Fluoride	< 0.1
					471457.75	4605361.20	Chromium, Hexavalent	< 10
					471457.75	4605361.20	Calcium (as CaCO3)	99
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	28.3
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	7.21 (Q)
					471457.75	4605361.20	Arsenic (Total)	1.28
					471457.75	4605361.20	Barium (Total)	24.5
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	97.2
					471457.75	4605361.20	Copper (Total)	116
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	2
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Chemical Oxygen Demand	6.5
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.3 (DJ)
					471457.75	4605361.20	pH	7.9
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	182
					471457.75	4605361.20	Solids, Filterable Residue	171
					471457.75	4605361.20	Total Organic Carbon	1.5
					471457.75	4605361.20	Nitrogen (Total) Kjeldahl	0.1
					471457.75	4605361.20	Hardness (as CaCO3)	137
					471457.75	4605361.20	Alkalinity (as CaCO3)	105
LMG020-0009	LM-G	Lake Michigan	6/17/2004	AA23048	471457.75	4605361.20	Sulfate	20
					471457.75	4605361.20	Chloride	13
					471457.75	4605361.20	Fluoride	0.1
					471457.75	4605361.20	Chromium, Hexavalent	< 10
					471457.75	4605361.20	Calcium (as CaCO3)	92
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	< 20
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	6.66 (Q)
					471457.75	4605361.20	Arsenic (Total)	< 1.2
					471457.75	4605361.20	Barium (Total)	21.1
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	86.4
					471457.75	4605361.20	Copper (Total)	95
					471457.75	4605361.20	Zinc (Dissolved)	4.54
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	1
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Chemical Oxygen Demand	< 5
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.3
					471457.75	4605361.20	pH	8
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	177
					471457.75	4605361.20	Solids, Filterable Residue	167
					471457.75	4605361.20	Total Organic Carbon	1.8
					471457.75	4605361.20	Hardness (as CaCO3)	127
					471457.75	4605361.20	Alkalinity (as CaCO3)	101
LMG020-0009	LM-G	Lake Michigan	7/20/2004	AA23261	471457.75	4605361.20	Sulfate	24
					471457.75	4605361.20	Chloride	12
					471457.75	4605361.20	Fluoride	0.1
					471457.75	4605361.20	Chromium, Hexavalent	< 10
					471457.75	4605361.20	Calcium (as CaCO3)	94
					471457.75	4605361.20	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	< 20
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	6.7 (Q)
					471457.75	4605361.20	Arsenic (Total)	1.33
					471457.75	4605361.20	Barium (Total)	21
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	36.1
					471457.75	4605361.20	Copper (Total)	39.5
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	1.1
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Biochemical Oxygen Demand (Total) 5-day	< 1
					471457.75	4605361.20	Chemical Oxygen Demand	< 5
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.2
					471457.75	4605361.20	pH	8.3
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	178
					471457.75	4605361.20	Solids, Filterable Residue	162
					471457.75	4605361.20	Total Organic Carbon	1.7
					471457.75	4605361.20	Nitrogen (Total) Kjeldahl	0.1
					471457.75	4605361.20	Hardness (as CaCO3)	121
					471457.75	4605361.20	Alkalinity (as CaCO3)	102
LMG020-0009	LM-G	Lake Michigan	8/17/2004	AA23682	471457.75	4605361.20	Sulfate	19
					471457.75	4605361.20	Chloride	12
					471457.75	4605361.20	Fluoride	0.1
					471457.75	4605361.20	Calcium (as CaCO3)	102
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	< 20
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	6.78 (Q)
					471457.75	4605361.20	Arsenic (Total)	1.21
					471457.75	4605361.20	Barium (Total)	22.5
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	96.4
					471457.75	4605361.20	Copper (Total)	104
					471457.75	4605361.20	Zinc (Dissolved)	< 3
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	1.2
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Chemical Oxygen Demand	6.6
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.2
					471457.75	4605361.20	pH	8.2
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	185
					471457.75	4605361.20	Solids, Filterable Residue	167
					471457.75	4605361.20	Total Organic Carbon	1.8
					471457.75	4605361.20	Nitrogen (Total) Kjeldahl	0.1
					471457.75	4605361.20	Hardness (as CaCO3)	131
					471457.75	4605361.20	Alkalinity (as CaCO3)	113
LMG020-0009	LM-G	Lake Michigan	9/21/2004	AA24189	471457.75	4605361.20	Sulfate	23
					471457.75	4605361.20	Chloride	12
					471457.75	4605361.20	Fluoride	< 0.1
					471457.75	4605361.20	Calcium (as CaCO3)	116
					471457.75	4605361.20	Cyanide (Total)	< 0.005
					471457.75	4605361.20	Iron (Dissolved)	< 8
					471457.75	4605361.20	Iron (Total)	< 20
					471457.75	4605361.20	Lead (Dissolved)	< 1
					471457.75	4605361.20	Lead (Total)	< 1
					471457.75	4605361.20	Manganese (Dissolved)	< 1
					471457.75	4605361.20	Mercury (Total)	< 0.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					471457.75	4605361.20	Nickel (Total)	< 1.4
					471457.75	4605361.20	Silver (Total)	< 1
					471457.75	4605361.20	Sodium	6.38 (Q)
					471457.75	4605361.20	Arsenic (Total)	< 1.2
					471457.75	4605361.20	Barium (Total)	21.8
					471457.75	4605361.20	Cadmium (Total)	< 1
					471457.75	4605361.20	Chromium (Total)	< 1.2
					471457.75	4605361.20	Copper (Dissolved)	149
					471457.75	4605361.20	Copper (Total)	166
					471457.75	4605361.20	Zinc (Total)	< 6
					471457.75	4605361.20	Silica (Molybdate Reactive)	1.8
					471457.75	4605361.20	Nitrogen, Ammonia	< 0.1
					471457.75	4605361.20	Phosphorus, Total	< 0.03
					471457.75	4605361.20	Selenium (Total)	< 2.2
					471457.75	4605361.20	Biochemical Oxygen Demand (Total) 5-day	< 1
					471457.75	4605361.20	Chemical Oxygen Demand	5.9
					471457.75	4605361.20	Nitrogen, Nitrate+Nitrite	0.3
					471457.75	4605361.20	pH	7.7
					471457.75	4605361.20	Solids, Non-filterable Residue	< 4
					471457.75	4605361.20	Solids (Total) Residue	182
					471457.75	4605361.20	Solids, Filterable Residue	177
					471457.75	4605361.20	Total Organic Carbon	1.6
					471457.75	4605361.20	Nitrogen (Total) Kjeldahl	0.1
					471457.75	4605361.20	Hardness (as CaCO3)	133
					471457.75	4605361.20	Alkalinity (as CaCO3)	102
LMG020-0010	LM-H	Lake Michigan	1/7/2004	AA20572	457883.65	4615728.66	Sulfate	25
					457883.65	4615728.66	Alachlor	< 0.1
					457883.65	4615728.66	Chloride	14 (fDJ)
					457883.65	4615728.66	Fluoride	0.1
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Oxychlordane	< 0.2
					457883.65	4615728.66	Acetochlor	< 0.12
					457883.65	4615728.66	Calcium (as CaCO3)	101
					457883.65	4615728.66	Metolachlor	< 0.12
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	317
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	1.65
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	7.95
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	7.36 (Q)
					457883.65	4615728.66	Arsenic (Total)	1.64
					457883.65	4615728.66	Barium (Total)	26.2
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	30.7
					457883.65	4615728.66	Copper (Total)	40.8
					457883.65	4615728.66	Zinc (Dissolved)	3.9
					457883.65	4615728.66	Zinc (Total)	9.24
					457883.65	4615728.66	Silica (Molybdate Reactive)	2
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2
					457883.65	4615728.66	Clomazone	< 0.1
					457883.65	4615728.66	Biochemical Oxygen Demand (Total) 5-day	< 1
					457883.65	4615728.66	Chemical Oxygen Demand	8.2
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.4
					457883.65	4615728.66	pH	8.1
					457883.65	4615728.66	Solids, Non-filterable Residue	14
					457883.65	4615728.66	Solids (Total) Residue	184
					457883.65	4615728.66	Solids, Filterable Residue	163
					457883.65	4615728.66	Total Organic Carbon	1.8
					457883.65	4615728.66	Nitrogen (Total) Kjeldahl	0.2
					457883.65	4615728.66	Hardness (as CaCO3)	133
					457883.65	4615728.66	Alkalinity (as CaCO3)	98
LMG020-0010	LM-H	Lake Michigan	2/18/2004	AA20692	457883.65	4615728.66	Sulfate	28
					457883.65	4615728.66	Alachlor	< 0.1 (QJ)
					457883.65	4615728.66	Chloride	16
					457883.65	4615728.66	Fluoride	< 0.1
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Atrazine	< 0.28
					457883.65	4615728.66	Oxychlordane	< 0.2 (QJ)
					457883.65	4615728.66	Acetochlor	< 0.12

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					457883.65	4615728.66	trans-Nonachlor	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	108
					457883.65	4615728.66	4,4'-DDT	< 0.2 (QJ)
					457883.65	4615728.66	Metolachlor	< 0.12 (QJ)
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08 (QJ)
					457883.65	4615728.66	Endrin	< 0.44 (QJ)
					457883.65	4615728.66	Methoxychlor	< 0.36 (QJ)
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	23.5
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	< 1
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	1.56
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	8.79 (Q)
					457883.65	4615728.66	Arsenic (Total)	1.65
					457883.65	4615728.66	Barium (Total)	26.8
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	30
					457883.65	4615728.66	Copper (Total)	36.6
					457883.65	4615728.66	Zinc (Dissolved)	4.49
					457883.65	4615728.66	Zinc (Total)	6.04
					457883.65	4615728.66	Silica (Molybdate Reactive)	2
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2
					457883.65	4615728.66	Clomazone	< 0.1 (QJ)
					457883.65	4615728.66	Chemical Oxygen Demand	11.6
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.4
					457883.65	4615728.66	pH	8.1
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	191
					457883.65	4615728.66	Solids, Filterable Residue	181
					457883.65	4615728.66	Hardness (as CaCO3)	143
					457883.65	4615728.66	Alkalinity (as CaCO3)	115
					457883.65	4615728.66	Total Organic Carbon	1.8
LMG020-0010	LM-H	Lake Michigan	5/26/2004	AA22559	457883.65	4615728.66	Desisopropylatrazine	< 2
					457883.65	4615728.66	Heptachlor Epoxide	< 0.16
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 4
					457883.65	4615728.66	Di(2-ethylhexyl)phthalate	< 1.14
					457883.65	4615728.66	Hexachlorobenzene	< 0.16
					457883.65	4615728.66	Sulfate	24
					457883.65	4615728.66	Alachlor	< 0.1
					457883.65	4615728.66	Chloride	15
					457883.65	4615728.66	Fluoride	< 0.1
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Atrazine	< 0.28
					457883.65	4615728.66	Oxychlordane	< 0.2 (QJ)
					457883.65	4615728.66	Chlorpyrifos	< 0.14
					457883.65	4615728.66	Acetochlor	< 0.12
					457883.65	4615728.66	trans-Nonachlor	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	98
					457883.65	4615728.66	4,4'-DDT	< 0.2
					457883.65	4615728.66	Chlordane, Alpha-	< 0.2
					457883.65	4615728.66	Nonachlor, cis-	< 0.2
					457883.65	4615728.66	Chlordane, Gamma-	< 0.2
					457883.65	4615728.66	Metolachlor	< 0.12
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	Endrin	< 0.44 (QJ)
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	41.6
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	1.22
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	2.22
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	7.93 (Q)
					457883.65	4615728.66	Arsenic (Total)	1.55
					457883.65	4615728.66	Barium (Total)	21.8
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	44.7

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					457883.65	4615728.66	Copper (Total)	52.9
					457883.65	4615728.66	Zinc (Dissolved)	4.57
					457883.65	4615728.66	Zinc (Total)	< 6
					457883.65	4615728.66	Silica (Molybdate Reactive)	1
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2.2
					457883.65	4615728.66	Clomazone	< 0.1
					457883.65	4615728.66	Pentachlorophenol	< 4.2
					457883.65	4615728.66	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					457883.65	4615728.66	Chemical Oxygen Demand	< 5
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.3
					457883.65	4615728.66	pH	8.3
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	192
					457883.65	4615728.66	Solids, Filterable Residue	169
					457883.65	4615728.66	Total Organic Carbon	1.2
					457883.65	4615728.66	Nitrogen (Total) Kjeldahl	0.2
					457883.65	4615728.66	Hardness (as CaCO3)	130
					457883.65	4615728.66	Alkalinity (as CaCO3)	104
LMG020-0010	LM-H	Lake Michigan	3/30/2004	AA21247	457883.65	4615728.66	Desisopropylatrazine	< 2 (HJ)
					457883.65	4615728.66	Heptachlor Epoxide	< 0.16 (HJ)
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 0.42 (HJ)
					457883.65	4615728.66	Hexachlorobenzene	< 0.16 (HJ)
					457883.65	4615728.66	Terbufos	< 0.14 (HJ)
					457883.65	4615728.66	Sulfate	29
					457883.65	4615728.66	Alachlor	< 0.1 (HJ)
					457883.65	4615728.66	Chloride	19
					457883.65	4615728.66	Fluoride	0.1
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Atrazine	< 0.28 (HJ)
					457883.65	4615728.66	Cyanazine	< 0.4 (HJ)
					457883.65	4615728.66	Oxychlordane	< 0.2 (HJ)
					457883.65	4615728.66	Acetochlor	< 0.12 (HJ)
					457883.65	4615728.66	trans-Nonachlor	< 0.2 (HJ)
					457883.65	4615728.66	Calcium (as CaCO3)	112
					457883.65	4615728.66	4,4'-DDT	< 0.2 (HJ)
					457883.65	4615728.66	Benzo[a]pyrene	< 0.12 (HJ)
					457883.65	4615728.66	Chlordane, Alpha-	< 0.2 (HJ)
					457883.65	4615728.66	Nonachlor, cis-	< 0.2 (HJ)
					457883.65	4615728.66	Chlordane, Gamma-	< 0.2 (HJ)
					457883.65	4615728.66	Metolachlor	< 0.12 (HJ)
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08 (HJ)
					457883.65	4615728.66	Endrin	< 0.44 (HJ QJ)
					457883.65	4615728.66	Methoxychlor	< 0.36 (HJ)
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	76.3
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	1.14
					457883.65	4615728.66	Manganese (Dissolved)	1.5
					457883.65	4615728.66	Manganese (Total)	4.87
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	10.5 (Q)
					457883.65	4615728.66	Arsenic (Total)	2.29
					457883.65	4615728.66	Barium (Total)	29.2
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	20.6
					457883.65	4615728.66	Copper (Total)	36.2
					457883.65	4615728.66	Zinc (Dissolved)	4.43
					457883.65	4615728.66	Zinc (Total)	7.43
					457883.65	4615728.66	Silica (Molybdate Reactive)	2
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	2.89
					457883.65	4615728.66	Clomazone	< 0.1 (HJ)
					457883.65	4615728.66	Pentachlorophenol	< 4.2 (HJ)
					457883.65	4615728.66	Biochemical Oxygen Demand (Total) 5-day	< 1
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.6
					457883.65	4615728.66	pH	8
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	202
					457883.65	4615728.66	Solids, Filterable Residue	194
					457883.65	4615728.66	Total Organic Carbon	2.1
					457883.65	4615728.66	Hardness (as CaCO3)	143
					457883.65	4615728.66	Alkalinity (as CaCO3)	106
LMG020-0010	LM-H	Lake Michigan	4/21/2004	AA21925	457883.65	4615728.66	Heptachlor Epoxide	< 0.16

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 0.42
					457883.65	4615728.66	Di(2-ethylhexyl)phthalate	< 0.8
					457883.65	4615728.66	Hexachlorobenzene	< 0.16
					457883.65	4615728.66	Sulfate	24
					457883.65	4615728.66	Alachlor	< 0.1
					457883.65	4615728.66	Chloride	19
					457883.65	4615728.66	Fluoride	< 0.1
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Atrazine	< 0.28
					457883.65	4615728.66	Chlorpyrifos	< 0.14 (QJ)
					457883.65	4615728.66	Acetochlor	< 0.12
					457883.65	4615728.66	Pendimethalin	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	99
					457883.65	4615728.66	4,4'-DDT	< 0.2
					457883.65	4615728.66	Benzo[a]pyrene	< 0.12
					457883.65	4615728.66	Chlordane, Alpha-	< 0.2
					457883.65	4615728.66	Nonachlor, cis-	< 0.2
					457883.65	4615728.66	Chlordane, Gamma-	< 0.2
					457883.65	4615728.66	Metolachlor	< 0.12
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08
					457883.65	4615728.66	Endrin	< 0.44 (QJ)
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	73.7
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	1.73
					457883.65	4615728.66	Manganese (Dissolved)	3.82
					457883.65	4615728.66	Manganese (Total)	6.62
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	9.72 (Q)
					457883.65	4615728.66	Arsenic (Total)	1.67
					457883.65	4615728.66	Barium (Total)	27.8
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	42.4
					457883.65	4615728.66	Copper (Total)	56.2
					457883.65	4615728.66	Zinc (Dissolved)	6.4
					457883.65	4615728.66	Zinc (Total)	7.33
					457883.65	4615728.66	Silica (Molybdate Reactive)	2
					457883.65	4615728.66	Heptachlor	< 0.28
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2.2
					457883.65	4615728.66	Clomazone	< 0.1
					457883.65	4615728.66	Chemical Oxygen Demand	5.7
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.5 (DJ)
					457883.65	4615728.66	pH	8.1
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	197
					457883.65	4615728.66	Solids, Filterable Residue	187
					457883.65	4615728.66	Total Organic Carbon	1.7
					457883.65	4615728.66	Nitrogen (Total) Kjeldahl	0.2
					457883.65	4615728.66	Hardness (as CaCO3)	145
					457883.65	4615728.66	Alkalinity (as CaCO3)	108
LMG020-0010	LM-H	Lake Michigan	6/16/2004	AA23120	457883.65	4615728.66	Desisopropylatrazine	< 2
					457883.65	4615728.66	Heptachlor Epoxide	< 0.16
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 4
					457883.65	4615728.66	Hexachlorobenzene	< 0.16
					457883.65	4615728.66	Terbufos	< 0.14
					457883.65	4615728.66	Sulfate	22
					457883.65	4615728.66	Alachlor	< 0.1 (QJ)
					457883.65	4615728.66	Chloride	13
					457883.65	4615728.66	Fluoride	0.1
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Atrazine	< 0.28
					457883.65	4615728.66	Oxychlordane	< 0.2 (QJ)
					457883.65	4615728.66	Chlorpyrifos	< 0.14
					457883.65	4615728.66	Acetochlor	< 0.12 (QJ)
					457883.65	4615728.66	trans-Nonachlor	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	90
					457883.65	4615728.66	4,4'-DDT	< 0.2
					457883.65	4615728.66	Chlordane, Alpha-	< 0.2 (QJ)
					457883.65	4615728.66	Nonachlor, cis-	< 0.2
					457883.65	4615728.66	Chlordane, Gamma-	< 0.2
					457883.65	4615728.66	Metolachlor	< 0.12 (DJ)
					457883.65	4615728.66	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08 (QJ)
					457883.65	4615728.66	Endrin	< 0.44 (QJ)
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	39.6
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	< 1
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	2.7
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	7.12 (Q)
					457883.65	4615728.66	Arsenic (Total)	< 1.2
					457883.65	4615728.66	Barium (Total)	22.1
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	29.8
					457883.65	4615728.66	Copper (Total)	32.7
					457883.65	4615728.66	Zinc (Dissolved)	< 3
					457883.65	4615728.66	Zinc (Total)	< 6
					457883.65	4615728.66	Silica (Molybdate Reactive)	1
					457883.65	4615728.66	Heptachlor	< 0.28
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2.2
					457883.65	4615728.66	Clomazone	< 0.1
					457883.65	4615728.66	Pentachlorophenol	< 4.2
					457883.65	4615728.66	Chemical Oxygen Demand	< 5
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.3
					457883.65	4615728.66	pH	8.2
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	177
					457883.65	4615728.66	Solids, Filterable Residue	168
					457883.65	4615728.66	Total Organic Carbon	1.8
					457883.65	4615728.66	Hardness (as CaCO3)	125
					457883.65	4615728.66	Alkalinity (as CaCO3)	100
LMG020-0010	LM-H	Lake Michigan	7/19/2004	AA23271	457883.65	4615728.66	Heptachlor Epoxide	< 0.16
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 4 (QJ)
					457883.65	4615728.66	Di(2-ethylhexyl)phthalate	< 1.14 (DJ)
					457883.65	4615728.66	Hexachlorobenzene	< 0.16 (QJ)
					457883.65	4615728.66	Simazine	< 0.36 (QJ)
					457883.65	4615728.66	Sulfate	26
					457883.65	4615728.66	Alachlor	< 0.1
					457883.65	4615728.66	Chloride	13
					457883.65	4615728.66	Fluoride	0.2
					457883.65	4615728.66	Chromium, Hexavalent	< 10
					457883.65	4615728.66	Oxychlordane	< 0.2
					457883.65	4615728.66	Chlorpyrifos	< 0.14
					457883.65	4615728.66	Acetochlor	< 0.12
					457883.65	4615728.66	Pendimethalin	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	88
					457883.65	4615728.66	4,4'-DDT	< 0.2
					457883.65	4615728.66	Metolachlor	< 0.12
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08
					457883.65	4615728.66	Desethylatrazine	< 2 (QJ)
					457883.65	4615728.66	Endrin	< 0.44
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	62.4
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	< 1
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	3.03
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	6.96 (Q)
					457883.65	4615728.66	Arsenic (Total)	1.65
					457883.65	4615728.66	Barium (Total)	23
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	27.7
					457883.65	4615728.66	Copper (Total)	33.7
					457883.65	4615728.66	Zinc (Dissolved)	4.56
					457883.65	4615728.66	Zinc (Total)	< 6
					457883.65	4615728.66	Silica (Molybdate Reactive)	1
					457883.65	4615728.66	Heptachlor	< 0.28 (QJ)

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2.2
					457883.65	4615728.66	Clomazone	< 0.1
					457883.65	4615728.66	Pentachlorophenol	< 4.2
					457883.65	4615728.66	Biochemical Oxygen Demand (Total) 5-day	< 1
					457883.65	4615728.66	Chemical Oxygen Demand	7.3
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.2
					457883.65	4615728.66	pH	8.3
					457883.65	4615728.66	Solids, Non-filterable Residue	6
					457883.65	4615728.66	Solids (Total) Residue	177
					457883.65	4615728.66	Solids, Filterable Residue	163
					457883.65	4615728.66	Total Organic Carbon	2.1
					457883.65	4615728.66	Nitrogen (Total) Kjeldahl	0.2
					457883.65	4615728.66	Hardness (as CaCO3)	123
					457883.65	4615728.66	Alkalinity (as CaCO3)	99
LMG020-0010	LM-H	Lake Michigan	8/16/2004	AA23693	457883.65	4615728.66	Desisopropylatrazine	< 2
					457883.65	4615728.66	Heptachlor Epoxide	< 0.16 (QJ)
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 4 (QJ)
					457883.65	4615728.66	Hexachlorobenzene	< 0.16
					457883.65	4615728.66	Terbufos	< 0.14
					457883.65	4615728.66	Sulfate	25
					457883.65	4615728.66	Alachlor	< 0.1
					457883.65	4615728.66	Chloride	13
					457883.65	4615728.66	Fluoride	0.1
					457883.65	4615728.66	Atrazine	< 0.28 (QJ)
					457883.65	4615728.66	Oxychlordane	< 0.2 (QJ)
					457883.65	4615728.66	Chlorpyrifos	< 0.14
					457883.65	4615728.66	Acetochlor	< 0.12 (QJ)
					457883.65	4615728.66	trans-Nonachlor	< 0.2
					457883.65	4615728.66	Pendimethalin	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	96
					457883.65	4615728.66	Chlordane, Alpha-	< 0.2
					457883.65	4615728.66	Nonachlor, cis-	< 0.2
					457883.65	4615728.66	Metolachlor	< 0.12
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08
					457883.65	4615728.66	Endrin	< 0.44 (QJ)
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	47.2
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	< 1
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	2.27
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	7.13 (Q)
					457883.65	4615728.66	Arsenic (Total)	1.52
					457883.65	4615728.66	Barium (Total)	23
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	31.3
					457883.65	4615728.66	Copper (Total)	34.4
					457883.65	4615728.66	Zinc (Dissolved)	4.03
					457883.65	4615728.66	Zinc (Total)	< 6
					457883.65	4615728.66	Silica (Molybdate Reactive)	< 1
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2.2
					457883.65	4615728.66	Clomazone	< 0.1 (QJ)
					457883.65	4615728.66	Pentachlorophenol	< 4.2
					457883.65	4615728.66	Chemical Oxygen Demand	< 5 (DJ)
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.3
					457883.65	4615728.66	pH	8
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	179
					457883.65	4615728.66	Solids, Filterable Residue	180
					457883.65	4615728.66	Total Organic Carbon	1.7
					457883.65	4615728.66	Nitrogen (Total) Kjeldahl	0.2
					457883.65	4615728.66	Hardness (as CaCO3)	134
					457883.65	4615728.66	Alkalinity (as CaCO3)	111
LMG020-0010	LM-H	Lake Michigan	9/20/2004	AA24199	457883.65	4615728.66	Heptachlor Epoxide	< 0.16
					457883.65	4615728.66	Di(2-ethylhexyl)adipate	< 4 (QJ)
					457883.65	4615728.66	Hexachlorobenzene	< 0.16
					457883.65	4615728.66	Terbufos	< 0.14
					457883.65	4615728.66	Sulfate	26
					457883.65	4615728.66	Alachlor	< 0.1 (QJ)

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					457883.65	4615728.66	Chloride	15
					457883.65	4615728.66	Fluoride	< 0.1
					457883.65	4615728.66	Atrazine	< 0.28
					457883.65	4615728.66	Oxychlordane	< 0.2
					457883.65	4615728.66	Chlorpyrifos	< 0.14
					457883.65	4615728.66	Acetochlor	< 0.12 (QJ)
					457883.65	4615728.66	trans-Nonachlor	< 0.2
					457883.65	4615728.66	Calcium (as CaCO3)	98
					457883.65	4615728.66	4,4'-DDT	< 0.2 (QJ)
					457883.65	4615728.66	Chlordane, Alpha-	< 0.2
					457883.65	4615728.66	Chlordane, Gamma-	< 0.2
					457883.65	4615728.66	Metolachlor	< 0.12
					457883.65	4615728.66	Cyanide (Total)	< 0.005
					457883.65	4615728.66	BHC, Gamma- (Lindane)	< 0.08
					457883.65	4615728.66	Desethylatrazine	< 2 (QJ)
					457883.65	4615728.66	Endrin	< 0.44
					457883.65	4615728.66	Methoxychlor	< 0.36
					457883.65	4615728.66	Iron (Dissolved)	< 8
					457883.65	4615728.66	Iron (Total)	22.6
					457883.65	4615728.66	Lead (Dissolved)	< 1
					457883.65	4615728.66	Lead (Total)	< 1
					457883.65	4615728.66	Manganese (Dissolved)	< 1
					457883.65	4615728.66	Manganese (Total)	2.25
					457883.65	4615728.66	Mercury (Total)	< 0.2
					457883.65	4615728.66	Nickel (Total)	< 1.4
					457883.65	4615728.66	Silver (Total)	< 1
					457883.65	4615728.66	Sodium	8.14 (Q)
					457883.65	4615728.66	Arsenic (Total)	< 1.2
					457883.65	4615728.66	Barium (Total)	21.9
					457883.65	4615728.66	Cadmium (Total)	< 1
					457883.65	4615728.66	Chromium (Total)	< 1.2
					457883.65	4615728.66	Copper (Dissolved)	34.8
					457883.65	4615728.66	Copper (Total)	40.2
					457883.65	4615728.66	Zinc (Total)	< 6
					457883.65	4615728.66	Silica (Molybdate Reactive)	< 1
					457883.65	4615728.66	Heptachlor	< 0.28
					457883.65	4615728.66	Nitrogen, Ammonia	< 0.1
					457883.65	4615728.66	Phosphorus, Total	< 0.03
					457883.65	4615728.66	Selenium (Total)	< 2.2
					457883.65	4615728.66	Clomazone	< 0.1
					457883.65	4615728.66	Pentachlorophenol	< 4.2
					457883.65	4615728.66	Biochemical Oxygen Demand (Total) 5-day	< 1
					457883.65	4615728.66	Chemical Oxygen Demand	6.8
					457883.65	4615728.66	Nitrogen, Nitrate+Nitrite	0.3
					457883.65	4615728.66	pH	8.2
					457883.65	4615728.66	Solids, Non-filterable Residue	< 4
					457883.65	4615728.66	Solids (Total) Residue	187
					457883.65	4615728.66	Solids, Filterable Residue	175
					457883.65	4615728.66	Total Organic Carbon	1.8
					457883.65	4615728.66	Nitrogen (Total) Kjeldahl	0.2
					457883.65	4615728.66	Hardness (as CaCO3)	128
					457883.65	4615728.66	Alkalinity (as CaCO3)	102
LMG020-0011	GCR-37	Grand Calumet River	1/8/2004	AA20580	461535.72	4607041.95	Sulfate	61
					461535.72	4607041.95	Chloride	73 (fDJ)
					461535.72	4607041.95	Fluoride	0.6
					461535.72	4607041.95	Calcium (as CaCO3)	124
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	166
					461535.72	4607041.95	Iron (Dissolved)	21.1
					461535.72	4607041.95	Iron (Total)	962
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	3.98
					461535.72	4607041.95	Manganese (Dissolved)	27.5
					461535.72	4607041.95	Manganese (Total)	52.2
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	< 1.4
					461535.72	4607041.95	Nickel (Total)	1.79
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	28 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	< 1.2
					461535.72	4607041.95	Arsenic (Total)	2.12
					461535.72	4607041.95	Barium (Dissolved)	23
					461535.72	4607041.95	Barium (Total)	28.9
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	2.04
					461535.72	4607041.95	Chromium (Total)	5.92
					461535.72	4607041.95	Copper (Dissolved)	1.16

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461535.72	4607041.95	Copper (Total)	2.91
					461535.72	4607041.95	Zinc (Dissolved)	5.02
					461535.72	4607041.95	Zinc (Total)	22.8
					461535.72	4607041.95	Silica (Molybdate Reactive)	3
					461535.72	4607041.95	Nitrogen, Ammonia	0.5
					461535.72	4607041.95	Phosphorus, Total	0.04
					461535.72	4607041.95	Selenium (Dissolved)	< 2
					461535.72	4607041.95	Selenium (Total)	< 2
					461535.72	4607041.95	Biochemical Oxygen Demand (Total) 5-day	1.8
					461535.72	4607041.95	Chemical Oxygen Demand	13.5
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	4
					461535.72	4607041.95	pH	7.9
					461535.72	4607041.95	Solids, Non-filterable Residue	9
					461535.72	4607041.95	Solids (Total) Residue	319
					461535.72	4607041.95	Solids, Filterable Residue	289
					461535.72	4607041.95	Total Organic Carbon	2.9
					461535.72	4607041.95	Nitrogen (Total) Kjeldahl	1.1
					461535.72	4607041.95	Hardness (as CaCO3)	174
					461535.72	4607041.95	Alkalinity (as CaCO3)	107
LMG020-0011	GCR-37	Grand Calumet River	2/18/2004	AA20685	461535.72	4607041.95	Sulfate	50
					461535.72	4607041.95	Chloride	44
					461535.72	4607041.95	Fluoride	0.4
					461535.72	4607041.95	Calcium (as CaCO3)	128
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	84.1
					461535.72	4607041.95	Iron (Dissolved)	27.7
					461535.72	4607041.95	Iron (Total)	766
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	4.18
					461535.72	4607041.95	Manganese (Dissolved)	26.9
					461535.72	4607041.95	Manganese (Total)	43.5
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	1.41
					461535.72	4607041.95	Nickel (Total)	2.29
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	24.9 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	< 1.2
					461535.72	4607041.95	Arsenic (Total)	2.44
					461535.72	4607041.95	Barium (Dissolved)	22.2
					461535.72	4607041.95	Barium (Total)	29.3
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	2.97
					461535.72	4607041.95	Chromium (Total)	2.74
					461535.72	4607041.95	Copper (Dissolved)	1.18
					461535.72	4607041.95	Copper (Total)	3.28
					461535.72	4607041.95	Zinc (Dissolved)	4.98
					461535.72	4607041.95	Zinc (Total)	30
					461535.72	4607041.95	Silica (Molybdate Reactive)	3
					461535.72	4607041.95	Nitrogen, Ammonia	0.8
					461535.72	4607041.95	Phosphorus, Total	0.03
					461535.72	4607041.95	Selenium (Dissolved)	< 2
					461535.72	4607041.95	Selenium (Total)	2.07
					461535.72	4607041.95	Chemical Oxygen Demand	12.8
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	3.2
					461535.72	4607041.95	pH	8
					461535.72	4607041.95	Solids, Non-filterable Residue	7
					461535.72	4607041.95	Solids (Total) Residue	298
					461535.72	4607041.95	Solids, Filterable Residue	275
					461535.72	4607041.95	Hardness (as CaCO3)	173
					461535.72	4607041.95	Alkalinity (as CaCO3)	117
					461535.72	4607041.95	Total Organic Carbon	2.9
LMG020-0011	GCR-37	Grand Calumet River	5/26/2004	AA22552	461535.72	4607041.95	Sulfate	59
					461535.72	4607041.95	Chloride	46
					461535.72	4607041.95	Fluoride	0.4
					461535.72	4607041.95	Calcium (as CaCO3)	129
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	183
					461535.72	4607041.95	Iron (Dissolved)	39.2
					461535.72	4607041.95	Iron (Total)	1990
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	9.46
					461535.72	4607041.95	Manganese (Dissolved)	30.8
					461535.72	4607041.95	Manganese (Total)	62.8
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	1.48
					461535.72	4607041.95	Nickel (Total)	2.53

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	27.9 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	< 1.2
					461535.72	4607041.95	Arsenic (Total)	2.48
					461535.72	4607041.95	Barium (Dissolved)	22.7
					461535.72	4607041.95	Barium (Total)	28.9
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	1.47
					461535.72	4607041.95	Chromium (Total)	4.88
					461535.72	4607041.95	Copper (Dissolved)	1.5
					461535.72	4607041.95	Copper (Total)	4.52
					461535.72	4607041.95	Zinc (Dissolved)	10.1
					461535.72	4607041.95	Zinc (Total)	47.5
					461535.72	4607041.95	Silica (Molybdate Reactive)	3
					461535.72	4607041.95	Nitrogen, Ammonia	0.6
					461535.72	4607041.95	Phosphorus, Total	0.05
					461535.72	4607041.95	Selenium (Dissolved)	< 2.2
					461535.72	4607041.95	Selenium (Total)	< 2.2
					461535.72	4607041.95	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					461535.72	4607041.95	Chemical Oxygen Demand	10.7
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	3.2
					461535.72	4607041.95	pH	7.8
					461535.72	4607041.95	Solids, Non-filterable Residue	6
					461535.72	4607041.95	Solids (Total) Residue	327
					461535.72	4607041.95	Solids, Filterable Residue	298
					461535.72	4607041.95	Total Organic Carbon	2.5
					461535.72	4607041.95	Nitrogen (Total) Kjeldahl	1.1
					461535.72	4607041.95	Hardness (as CaCO3)	173
					461535.72	4607041.95	Alkalinity (as CaCO3)	116
LMG020-0011	GCR-37	Grand Calumet River	3/30/2004	AA21240	461535.72	4607041.95	Sulfate	52
					461535.72	4607041.95	Chloride	53
					461535.72	4607041.95	Fluoride	0.5
					461535.72	4607041.95	Calcium (as CaCO3)	143
					461535.72	4607041.95	Cyanide (Free)	< 0.005 (HJ)
					461535.72	4607041.95	Cyanide (Total)	0.007
					461535.72	4607041.95	Cyanide (Chlorine Amenable)	0.017 (HJ)
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	93.9
					461535.72	4607041.95	Iron (Dissolved)	32.1
					461535.72	4607041.95	Iron (Total)	1170
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	6.52
					461535.72	4607041.95	Manganese (Dissolved)	37.2
					461535.72	4607041.95	Manganese (Total)	69.1
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	< 1.4
					461535.72	4607041.95	Nickel (Total)	1.98
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	27.2 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	1.62
					461535.72	4607041.95	Arsenic (Total)	2.38
					461535.72	4607041.95	Barium (Dissolved)	23.3
					461535.72	4607041.95	Barium (Total)	32.9
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	< 1.2
					461535.72	4607041.95	Chromium (Total)	3.29
					461535.72	4607041.95	Copper (Dissolved)	1.15
					461535.72	4607041.95	Copper (Total)	3.09
					461535.72	4607041.95	Zinc (Dissolved)	7.77
					461535.72	4607041.95	Zinc (Total)	33.3
					461535.72	4607041.95	Silica (Molybdate Reactive)	4
					461535.72	4607041.95	Nitrogen, Ammonia	0.9
					461535.72	4607041.95	Phosphorus, Total	< 0.03
					461535.72	4607041.95	Selenium (Dissolved)	3.02
					461535.72	4607041.95	Selenium (Total)	< 2.2
					461535.72	4607041.95	Biochemical Oxygen Demand (Total) 5-day	1.4
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	3.6
					461535.72	4607041.95	pH	7.8
					461535.72	4607041.95	Solids, Non-filterable Residue	7
					461535.72	4607041.95	Solids (Total) Residue	346
					461535.72	4607041.95	Solids, Filterable Residue	314
					461535.72	4607041.95	Total Organic Carbon	3.1
					461535.72	4607041.95	Hardness (as CaCO3)	177
					461535.72	4607041.95	Alkalinity (as CaCO3)	113
LMG020-0011	GCR-37	Grand Calumet River	4/22/2004	AA21918	461535.72	4607041.95	Sulfate	55
					461535.72	4607041.95	Chloride	45
					461535.72	4607041.95	Fluoride	0.6

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461535.72	4607041.95	Calcium (as CaCO3)	120
					461535.72	4607041.95	Cyanide (Free)	< 0.005 (HJ)
					461535.72	4607041.95	Cyanide (Total)	0.006 (HJ)
					461535.72	4607041.95	Cyanide (Chlorine Amenable)	< -0.2
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	234
					461535.72	4607041.95	Iron (Dissolved)	26.6
					461535.72	4607041.95	Iron (Total)	2660
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	11.8
					461535.72	4607041.95	Manganese (Dissolved)	39.5
					461535.72	4607041.95	Manganese (Total)	85.5
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	< 1.4
					461535.72	4607041.95	Nickel (Total)	2.61
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	27.1 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	1.43
					461535.72	4607041.95	Arsenic (Total)	2.25
					461535.72	4607041.95	Barium (Dissolved)	23.9
					461535.72	4607041.95	Barium (Total)	32.5
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	< 1.2
					461535.72	4607041.95	Chromium (Total)	5.23
					461535.72	4607041.95	Copper (Dissolved)	1.27
					461535.72	4607041.95	Copper (Total)	4.66
					461535.72	4607041.95	Zinc (Dissolved)	8
					461535.72	4607041.95	Zinc (Total)	49.3
					461535.72	4607041.95	Silica (Molybdate Reactive)	4
					461535.72	4607041.95	Nitrogen, Ammonia	0.8
					461535.72	4607041.95	Phosphorus, Total	0.04
					461535.72	4607041.95	Selenium (Dissolved)	< 2.2
					461535.72	4607041.95	Selenium (Total)	< 2.2
					461535.72	4607041.95	Chemical Oxygen Demand	13.1
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	3 (DJ)
					461535.72	4607041.95	pH	7.7
					461535.72	4607041.95	Solids, Non-filterable Residue	15
					461535.72	4607041.95	Solids (Total) Residue	328
					461535.72	4607041.95	Solids, Filterable Residue	293
					461535.72	4607041.95	Total Organic Carbon	2.9
					461535.72	4607041.95	Nitrogen (Total) Kjeldahl	1.3
					461535.72	4607041.95	Hardness (as CaCO3)	190
					461535.72	4607041.95	Alkalinity (as CaCO3)	112
LMG020-0011	GCR-37	Grand Calumet River	6/17/2004	AA23051	461535.72	4607041.95	Sulfate	53
					461535.72	4607041.95	Chloride	46
					461535.72	4607041.95	Fluoride	0.6
					461535.72	4607041.95	Calcium (as CaCO3)	131
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	116
					461535.72	4607041.95	Iron (Dissolved)	40.8
					461535.72	4607041.95	Iron (Total)	1210
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	6.48
					461535.72	4607041.95	Manganese (Dissolved)	33.9
					461535.72	4607041.95	Manganese (Total)	52.4
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	1.62
					461535.72	4607041.95	Nickel (Total)	1.93
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	29 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	2.02
					461535.72	4607041.95	Arsenic (Total)	< 1.2
					461535.72	4607041.95	Barium (Dissolved)	24
					461535.72	4607041.95	Barium (Total)	28.4
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	2.32
					461535.72	4607041.95	Chromium (Total)	3.25
					461535.72	4607041.95	Copper (Dissolved)	1.27
					461535.72	4607041.95	Copper (Total)	2.83
					461535.72	4607041.95	Zinc (Dissolved)	5.28
					461535.72	4607041.95	Zinc (Total)	32.2
					461535.72	4607041.95	Silica (Molybdate Reactive)	4
					461535.72	4607041.95	Nitrogen, Ammonia	0.5
					461535.72	4607041.95	Phosphorus, Total	0.04
					461535.72	4607041.95	Selenium (Dissolved)	< 2.2
					461535.72	4607041.95	Selenium (Total)	< 2.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461535.72	4607041.95	Chemical Oxygen Demand	10.5
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	3.5
					461535.72	4607041.95	pH	7.5
					461535.72	4607041.95	Solids, Non-filterable Residue	9
					461535.72	4607041.95	Solids (Total) Residue	339
					461535.72	4607041.95	Solids, Filterable Residue	313
					461535.72	4607041.95	Total Organic Carbon	3.2
					461535.72	4607041.95	Hardness (as CaCO3)	182
					461535.72	4607041.95	Alkalinity (as CaCO3)	113
LMG020-0011	GCR-37	Grand Calumet River	7/19/2004	AA23264	461535.72	4607041.95	Sulfate	49
					461535.72	4607041.95	Chloride	40
					461535.72	4607041.95	Fluoride	0.6
					461535.72	4607041.95	Calcium (as CaCO3)	114
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	72.6
					461535.72	4607041.95	Iron (Dissolved)	46.9
					461535.72	4607041.95	Iron (Total)	544
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	3.61
					461535.72	4607041.95	Manganese (Dissolved)	14.4
					461535.72	4607041.95	Manganese (Total)	27.2
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	1.45
					461535.72	4607041.95	Nickel (Total)	1.42
					461535.72	4607041.95	Silver (Total)	3.08
					461535.72	4607041.95	Sodium	22.7 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	1.27
					461535.72	4607041.95	Arsenic (Total)	1.98
					461535.72	4607041.95	Barium (Dissolved)	21.6
					461535.72	4607041.95	Barium (Total)	26.1
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	3.17
					461535.72	4607041.95	Chromium (Total)	2.32
					461535.72	4607041.95	Copper (Dissolved)	1.32
					461535.72	4607041.95	Copper (Total)	2.43
					461535.72	4607041.95	Zinc (Dissolved)	4.85
					461535.72	4607041.95	Zinc (Total)	16.1
					461535.72	4607041.95	Silica (Molybdate Reactive)	2
					461535.72	4607041.95	Nitrogen, Ammonia	0.1
					461535.72	4607041.95	Phosphorus, Total	0.04
					461535.72	4607041.95	Selenium (Dissolved)	< 2.2
					461535.72	4607041.95	Selenium (Total)	< 2.2
					461535.72	4607041.95	Biochemical Oxygen Demand (Total) 5-day	< 1
					461535.72	4607041.95	Chemical Oxygen Demand	11
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	2.9
					461535.72	4607041.95	pH	8
					461535.72	4607041.95	Solids, Non-filterable Residue	5
					461535.72	4607041.95	Solids (Total) Residue	304
					461535.72	4607041.95	Solids, Filterable Residue	261
					461535.72	4607041.95	Total Organic Carbon	2.9
					461535.72	4607041.95	Nitrogen (Total) Kjeldahl	0.5
					461535.72	4607041.95	Hardness (as CaCO3)	168
					461535.72	4607041.95	Alkalinity (as CaCO3)	106
LMG020-0011	GCR-37	Grand Calumet River	8/17/2004	AA23686	461535.72	4607041.95	Sulfate	53
					461535.72	4607041.95	Chloride	45
					461535.72	4607041.95	Fluoride	0.6
					461535.72	4607041.95	Calcium (as CaCO3)	112
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	155
					461535.72	4607041.95	Iron (Dissolved)	30.1
					461535.72	4607041.95	Iron (Total)	1710
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	7.89
					461535.72	4607041.95	Manganese (Dissolved)	22.1
					461535.72	4607041.95	Manganese (Total)	49
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	< 1.4
					461535.72	4607041.95	Nickel (Total)	2.03
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	28 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	1.37
					461535.72	4607041.95	Arsenic (Total)	2
					461535.72	4607041.95	Barium (Dissolved)	22
					461535.72	4607041.95	Barium (Total)	27.4
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					461535.72	4607041.95	Chromium (Total Dissolved)	< 1.2
					461535.72	4607041.95	Chromium (Total)	4.4
					461535.72	4607041.95	Copper (Dissolved)	1.34
					461535.72	4607041.95	Copper (Total)	3.81
					461535.72	4607041.95	Zinc (Dissolved)	3.22
					461535.72	4607041.95	Zinc (Total)	40.8
					461535.72	4607041.95	Silica (Molybdate Reactive)	3
					461535.72	4607041.95	Nitrogen, Ammonia	0.3
					461535.72	4607041.95	Phosphorus, Total	0.05
					461535.72	4607041.95	Selenium (Dissolved)	< 2.2
					461535.72	4607041.95	Selenium (Total)	< 2.2
					461535.72	4607041.95	Chemical Oxygen Demand	11.1
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	2.8
					461535.72	4607041.95	pH	7.7
					461535.72	4607041.95	Solids, Non-filterable Residue	9
					461535.72	4607041.95	Solids (Total) Residue	336
					461535.72	4607041.95	Solids, Filterable Residue	310
					461535.72	4607041.95	Total Organic Carbon	2.7
					461535.72	4607041.95	Nitrogen (Total) Kjeldahl	0.8
					461535.72	4607041.95	Hardness (as CaCO3)	168
					461535.72	4607041.95	Alkalinity (as CaCO3)	116
LMG020-0011	GCR-37	Grand Calumet River	9/20/2004	AA24192	461535.72	4607041.95	Sulfate	49
					461535.72	4607041.95	Chloride	38
					461535.72	4607041.95	Fluoride	0.4
					461535.72	4607041.95	Calcium (as CaCO3)	118
					461535.72	4607041.95	Cyanide (Total)	< 0.005
					461535.72	4607041.95	Aluminum (Dissolved)	< 30
					461535.72	4607041.95	Aluminum (Total)	151
					461535.72	4607041.95	Iron (Dissolved)	23.3
					461535.72	4607041.95	Iron (Total)	1400
					461535.72	4607041.95	Lead (Dissolved)	< 1
					461535.72	4607041.95	Lead (Total)	6.75
					461535.72	4607041.95	Manganese (Dissolved)	17.3
					461535.72	4607041.95	Manganese (Total)	40.4
					461535.72	4607041.95	Mercury (Total)	< 0.2
					461535.72	4607041.95	Nickel (Dissolved)	< 1.4
					461535.72	4607041.95	Nickel (Total)	1.66
					461535.72	4607041.95	Silver (Total)	< 1
					461535.72	4607041.95	Sodium	24.8 (Q)
					461535.72	4607041.95	Arsenic (Dissolved)	1.54
					461535.72	4607041.95	Arsenic (Total)	1.74
					461535.72	4607041.95	Barium (Dissolved)	21.8
					461535.72	4607041.95	Barium (Total)	24.5
					461535.72	4607041.95	Cadmium (Dissolved)	< 1
					461535.72	4607041.95	Cadmium (Total)	< 1
					461535.72	4607041.95	Chromium (Total Dissolved)	< 1.2
					461535.72	4607041.95	Chromium (Total)	3.55
					461535.72	4607041.95	Copper (Dissolved)	1.62
					461535.72	4607041.95	Copper (Total)	3.57
					461535.72	4607041.95	Zinc (Total)	31.2
					461535.72	4607041.95	Silica (Molybdate Reactive)	3
					461535.72	4607041.95	Nitrogen, Ammonia	0.3
					461535.72	4607041.95	Phosphorus, Total	0.04
					461535.72	4607041.95	Selenium (Dissolved)	< 2.2
					461535.72	4607041.95	Selenium (Total)	< 2.2
					461535.72	4607041.95	Biochemical Oxygen Demand (Total) 5-day	< 1
					461535.72	4607041.95	Chemical Oxygen Demand	10.6
					461535.72	4607041.95	Nitrogen, Nitrate+Nitrite	2.2
					461535.72	4607041.95	pH	7.9
					461535.72	4607041.95	Solids, Non-filterable Residue	10
					461535.72	4607041.95	Solids (Total) Residue	298
					461535.72	4607041.95	Solids, Filterable Residue	275
					461535.72	4607041.95	Total Organic Carbon	2.7
					461535.72	4607041.95	Nitrogen (Total) Kjeldahl	0.7
					461535.72	4607041.95	Hardness (as CaCO3)	159
					461535.72	4607041.95	Alkalinity (as CaCO3)	106
LMG020-0012	GCR-42	Grand Calumet River	1/7/2004	AA20581	469008.52	4606419.89	Sulfate	37
					469008.52	4606419.89	Chloride	77 (fDJ)
					469008.52	4606419.89	Fluoride	0.6
					469008.52	4606419.89	Calcium (as CaCO3)	105
					469008.52	4606419.89	Cyanide (Free)	< 0.005
					469008.52	4606419.89	Cyanide (Total)	0.005
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	< 0.005
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	95.4
					469008.52	4606419.89	Iron (Dissolved)	14.7
					469008.52	4606419.89	Iron (Total)	337
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	1.03

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					469008.52	4606419.89	Manganese (Dissolved)	12.4
					469008.52	4606419.89	Manganese (Total)	23.7
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.64
					469008.52	4606419.89	Barium (Dissolved)	21.8
					469008.52	4606419.89	Barium (Total)	25.1
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	1.8
					469008.52	4606419.89	Chromium (Total)	< 1.2
					469008.52	4606419.89	Copper (Dissolved)	1.34
					469008.52	4606419.89	Copper (Total)	2.49
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	< 6
					469008.52	4606419.89	Silica (Molybdate Reactive)	2
					469008.52	4606419.89	Nitrogen, Ammonia	0.7
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2
					469008.52	4606419.89	Selenium (Total)	< 2
					469008.52	4606419.89	Biochemical Oxygen Demand (Total) 5-day	< 1
					469008.52	4606419.89	Chemical Oxygen Demand	9.8
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	3.8
					469008.52	4606419.89	pH	8.1
					469008.52	4606419.89	Solids, Non-filterable Residue	9
					469008.52	4606419.89	Solids (Total) Residue	245
					469008.52	4606419.89	Solids, Filterable Residue	218
					469008.52	4606419.89	Total Organic Carbon	2.2
					469008.52	4606419.89	Nitrogen (Total) Kjeldahl	0.8
					469008.52	4606419.89	Hardness (as CaCO3)	174
					469008.52	4606419.89	Alkalinity (as CaCO3)	104
LMG020-0012	GCR-42	Grand Calumet River	2/18/2004	AA20684	469008.52	4606419.89	Sulfate	38
					469008.52	4606419.89	Chloride	27
					469008.52	4606419.89	Fluoride	0.5
					469008.52	4606419.89	Calcium (as CaCO3)	118
					469008.52	4606419.89	Cyanide (Total)	< 0.005
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	< 50
					469008.52	4606419.89	Iron (Dissolved)	13.3
					469008.52	4606419.89	Iron (Total)	265
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	1.5
					469008.52	4606419.89	Manganese (Dissolved)	13.7
					469008.52	4606419.89	Manganese (Total)	19.2
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.98
					469008.52	4606419.89	Barium (Dissolved)	22.1
					469008.52	4606419.89	Barium (Total)	25.5
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	2.88
					469008.52	4606419.89	Chromium (Total)	1.25
					469008.52	4606419.89	Copper (Dissolved)	1.26
					469008.52	4606419.89	Copper (Total)	2.27
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	7.86
					469008.52	4606419.89	Silica (Molybdate Reactive)	3
					469008.52	4606419.89	Nitrogen, Ammonia	0.9
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2
					469008.52	4606419.89	Selenium (Total)	< 2
					469008.52	4606419.89	Chemical Oxygen Demand	10
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	3
					469008.52	4606419.89	pH	8.1
					469008.52	4606419.89	Solids, Non-filterable Residue	4
					469008.52	4606419.89	Solids (Total) Residue	239
					469008.52	4606419.89	Solids, Filterable Residue	226
					469008.52	4606419.89	Hardness (as CaCO3)	168
					469008.52	4606419.89	Alkalinity (as CaCO3)	116
					469008.52	4606419.89	Total Organic Carbon	2.2
LMG020-0012	GCR-42	Grand Calumet River	5/27/2004	AA22551	469008.52	4606419.89	Sulfate	33
					469008.52	4606419.89	Chloride	25

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					469008.52	4606419.89	Fluoride	0.4
					469008.52	4606419.89	Calcium (as CaCO3)	104
					469008.52	4606419.89	Cyanide (Free)	< 0.005
					469008.52	4606419.89	Cyanide (Total)	0.008
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	0.008
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	106
					469008.52	4606419.89	Iron (Dissolved)	11.3
					469008.52	4606419.89	Iron (Total)	708
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	3.2
					469008.52	4606419.89	Manganese (Dissolved)	11.2
					469008.52	4606419.89	Manganese (Total)	29.3
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	2.16
					469008.52	4606419.89	Barium (Dissolved)	19.6
					469008.52	4606419.89	Barium (Total)	23.9
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	< 1.2
					469008.52	4606419.89	Chromium (Total)	1.65
					469008.52	4606419.89	Copper (Dissolved)	2.62
					469008.52	4606419.89	Copper (Total)	3.07
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	15.7
					469008.52	4606419.89	Silica (Molybdate Reactive)	2
					469008.52	4606419.89	Nitrogen, Ammonia	0.7
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2.2
					469008.52	4606419.89	Selenium (Total)	2.37
					469008.52	4606419.89	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					469008.52	4606419.89	Chemical Oxygen Demand	7.4
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	3
					469008.52	4606419.89	pH	8.1
					469008.52	4606419.89	Solids, Non-filterable Residue	< 4
					469008.52	4606419.89	Solids (Total) Residue	245
					469008.52	4606419.89	Solids, Filterable Residue	220
					469008.52	4606419.89	Total Organic Carbon	1.5
					469008.52	4606419.89	Nitrogen (Total) Kjeldahl	1
					469008.52	4606419.89	Hardness (as CaCO3)	158
					469008.52	4606419.89	Alkalinity (as CaCO3)	107
LMG020-0012	GCR-42	Grand Calumet River	3/30/2004	AA21239	469008.52	4606419.89	Sulfate	38
					469008.52	4606419.89	Chloride	27
					469008.52	4606419.89	Fluoride	0.6
					469008.52	4606419.89	Calcium (as CaCO3)	120
					469008.52	4606419.89	Cyanide (Free)	< 0.005 (HJ)
					469008.52	4606419.89	Cyanide (Total)	0.007
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	< -0.2 (HJ)
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	< 50
					469008.52	4606419.89	Iron (Dissolved)	13.5
					469008.52	4606419.89	Iron (Total)	413
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	2.12
					469008.52	4606419.89	Manganese (Dissolved)	13.2
					469008.52	4606419.89	Manganese (Total)	24.8
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.85
					469008.52	4606419.89	Barium (Dissolved)	21.8
					469008.52	4606419.89	Barium (Total)	24.1
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	< 1.2
					469008.52	4606419.89	Chromium (Total)	< 1.2
					469008.52	4606419.89	Copper (Dissolved)	1.03
					469008.52	4606419.89	Copper (Total)	2.34
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	10.8
					469008.52	4606419.89	Silica (Molybdate Reactive)	2
					469008.52	4606419.89	Nitrogen, Ammonia	1.1
					469008.52	4606419.89	Phosphorus, Total	< 0.03

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					469008.52	4606419.89	Selenium (Dissolved)	< 2
					469008.52	4606419.89	Selenium (Total)	< 2.2
					469008.52	4606419.89	Biochemical Oxygen Demand (Total) 5-day	1.4
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	3.5
					469008.52	4606419.89	pH	8
					469008.52	4606419.89	Solids, Non-filterable Residue	5
					469008.52	4606419.89	Solids (Total) Residue	260
					469008.52	4606419.89	Solids, Filterable Residue	236
					469008.52	4606419.89	Total Organic Carbon	2.1
					469008.52	4606419.89	Hardness (as CaCO3)	172
					469008.52	4606419.89	Alkalinity (as CaCO3)	105
LMG020-0012	GCR-42	Grand Calumet River	4/21/2004	AA21917	469008.52	4606419.89	Sulfate	35
					469008.52	4606419.89	Chloride	29
					469008.52	4606419.89	Fluoride	0.6
					469008.52	4606419.89	Calcium (as CaCO3)	116
					469008.52	4606419.89	Cyanide (Total)	< 0.005
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	141
					469008.52	4606419.89	Iron (Dissolved)	< 8
					469008.52	4606419.89	Iron (Total)	894
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	3.43
					469008.52	4606419.89	Manganese (Dissolved)	14.8
					469008.52	4606419.89	Manganese (Total)	33.6
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.79
					469008.52	4606419.89	Barium (Dissolved)	21.8
					469008.52	4606419.89	Barium (Total)	25.8
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	< 1.2
					469008.52	4606419.89	Chromium (Total)	1.83
					469008.52	4606419.89	Copper (Dissolved)	1.56
					469008.52	4606419.89	Copper (Total)	3.47
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	16.6
					469008.52	4606419.89	Silica (Molybdate Reactive)	2.6
					469008.52	4606419.89	Nitrogen, Ammonia	0.8
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2.2
					469008.52	4606419.89	Selenium (Total)	< 2.2
					469008.52	4606419.89	Chemical Oxygen Demand	8.2
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	3.1 (DJ)
					469008.52	4606419.89	pH	7.9
					469008.52	4606419.89	Solids, Non-filterable Residue	9
					469008.52	4606419.89	Solids (Total) Residue	268
					469008.52	4606419.89	Solids, Filterable Residue	244
					469008.52	4606419.89	Total Organic Carbon	2
					469008.52	4606419.89	Nitrogen (Total) Kjeldahl	1.2
					469008.52	4606419.89	Hardness (as CaCO3)	165
					469008.52	4606419.89	Alkalinity (as CaCO3)	110
LMG020-0012	GCR-42	Grand Calumet River	6/17/2004	AA23050	469008.52	4606419.89	Sulfate	35
					469008.52	4606419.89	Chloride	27
					469008.52	4606419.89	Fluoride	0.6
					469008.52	4606419.89	Calcium (as CaCO3)	102
					469008.52	4606419.89	Cyanide (Free)	< 0.005
					469008.52	4606419.89	Cyanide (Total)	0.006
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	< -0.2
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	73.7
					469008.52	4606419.89	Iron (Dissolved)	13.4
					469008.52	4606419.89	Iron (Total)	337
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	1.63
					469008.52	4606419.89	Manganese (Dissolved)	11.9
					469008.52	4606419.89	Manganese (Total)	22.4
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	2.26
					469008.52	4606419.89	Arsenic (Total)	1.37
					469008.52	4606419.89	Barium (Dissolved)	19.8
					469008.52	4606419.89	Barium (Total)	22.1
					469008.52	4606419.89	Cadmium (Dissolved)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	1.97
					469008.52	4606419.89	Chromium (Total)	< 1.2
					469008.52	4606419.89	Copper (Dissolved)	1.6
					469008.52	4606419.89	Copper (Total)	2.68
					469008.52	4606419.89	Zinc (Dissolved)	4.74
					469008.52	4606419.89	Zinc (Total)	6.37
					469008.52	4606419.89	Silica (Molybdate Reactive)	4
					469008.52	4606419.89	Nitrogen, Ammonia	0.7
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2.2
					469008.52	4606419.89	Selenium (Total)	< 2.2
					469008.52	4606419.89	Chemical Oxygen Demand	7.3
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	3.1
					469008.52	4606419.89	pH	8.1
					469008.52	4606419.89	Solids, Non-filterable Residue	4
					469008.52	4606419.89	Solids (Total) Residue	257
					469008.52	4606419.89	Solids, Filterable Residue	227
					469008.52	4606419.89	Total Organic Carbon	2.2
					469008.52	4606419.89	Hardness (as CaCO3)	162
					469008.52	4606419.89	Alkalinity (as CaCO3)	105
LMG020-0012	GCR-42	Grand Calumet River	7/20/2004	AA23263	469008.52	4606419.89	Sulfate	32
					469008.52	4606419.89	Chloride	23
					469008.52	4606419.89	Fluoride	0.5
					469008.52	4606419.89	Calcium (as CaCO3)	100
					469008.52	4606419.89	Cyanide (Free)	< 0.005
					469008.52	4606419.89	Cyanide (Total)	0.007
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	0.007
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	53.1
					469008.52	4606419.89	Iron (Dissolved)	13.4
					469008.52	4606419.89	Iron (Total)	236
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	1.5
					469008.52	4606419.89	Manganese (Dissolved)	7.66
					469008.52	4606419.89	Manganese (Total)	20.1
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.55
					469008.52	4606419.89	Barium (Dissolved)	20.5
					469008.52	4606419.89	Barium (Total)	23.5
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	3.28
					469008.52	4606419.89	Chromium (Total)	< 1.2
					469008.52	4606419.89	Copper (Dissolved)	1.72
					469008.52	4606419.89	Copper (Total)	2.93
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	8.32
					469008.52	4606419.89	Silica (Molybdate Reactive)	1
					469008.52	4606419.89	Nitrogen, Ammonia	0.6
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2.2
					469008.52	4606419.89	Selenium (Total)	< 2.2
					469008.52	4606419.89	Biochemical Oxygen Demand (Total) 5-day	< 1
					469008.52	4606419.89	Chemical Oxygen Demand	7.3
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	2.6
					469008.52	4606419.89	pH	8.2
					469008.52	4606419.89	Solids, Non-filterable Residue	6
					469008.52	4606419.89	Solids (Total) Residue	246
					469008.52	4606419.89	Solids, Filterable Residue	210
					469008.52	4606419.89	Total Organic Carbon	2.1
					469008.52	4606419.89	Nitrogen (Total) Kjeldahl	0.9
					469008.52	4606419.89	Hardness (as CaCO3)	150
					469008.52	4606419.89	Alkalinity (as CaCO3)	106
LMG020-0012	GCR-42	Grand Calumet River	8/17/2004	AA23685	469008.52	4606419.89	Silica (Molybdate Reactive)	2
					469008.52	4606419.89	Nitrogen, Ammonia	0.5
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2.2
					469008.52	4606419.89	Selenium (Total)	< 2.2
					469008.52	4606419.89	Chemical Oxygen Demand	7.4
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	2.4
					469008.52	4606419.89	pH	8.1
					469008.52	4606419.89	Solids, Non-filterable Residue	4
					469008.52	4606419.89	Solids (Total) Residue	247
					469008.52	4606419.89	Solids, Filterable Residue	220

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					469008.52	4606419.89	Total Organic Carbon	2
					469008.52	4606419.89	Nitrogen (Total) Kjeldahl	0.9
					469008.52	4606419.89	Hardness (as CaCO3)	162
					469008.52	4606419.89	Alkalinity (as CaCO3)	115
					469008.52	4606419.89	Sulfate	34
					469008.52	4606419.89	Chloride	25
					469008.52	4606419.89	Fluoride	0.5
					469008.52	4606419.89	Calcium (as CaCO3)	94
					469008.52	4606419.89	Cyanide (Free)	< 0.005
					469008.52	4606419.89	Cyanide (Total)	0.006
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	0.007
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	69.1
					469008.52	4606419.89	Iron (Dissolved)	13.3
					469008.52	4606419.89	Iron (Total)	458
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	2.07
					469008.52	4606419.89	Manganese (Dissolved)	8.49
					469008.52	4606419.89	Manganese (Total)	21.4
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.46
					469008.52	4606419.89	Barium (Dissolved)	20.6
					469008.52	4606419.89	Barium (Total)	24.6
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	< 1.2
					469008.52	4606419.89	Chromium (Total)	< 1.2
					469008.52	4606419.89	Copper (Dissolved)	1.52
					469008.52	4606419.89	Copper (Total)	2.98
					469008.52	4606419.89	Zinc (Dissolved)	< 3
					469008.52	4606419.89	Zinc (Total)	12.9
LMG020-0012	GCR-42	Grand Calumet River	9/21/2004	AA24191	469008.52	4606419.89	Sulfate	32
					469008.52	4606419.89	Chloride	22
					469008.52	4606419.89	Fluoride	0.4
					469008.52	4606419.89	Calcium (as CaCO3)	108
					469008.52	4606419.89	Cyanide (Free)	< 0.005
					469008.52	4606419.89	Cyanide (Total)	0.006
					469008.52	4606419.89	Cyanide (Chlorine Amenable)	0.006
					469008.52	4606419.89	Aluminum (Dissolved)	< 30
					469008.52	4606419.89	Aluminum (Total)	112
					469008.52	4606419.89	Iron (Dissolved)	8.64
					469008.52	4606419.89	Iron (Total)	474
					469008.52	4606419.89	Lead (Dissolved)	< 1
					469008.52	4606419.89	Lead (Total)	2.28
					469008.52	4606419.89	Manganese (Dissolved)	9.26
					469008.52	4606419.89	Manganese (Total)	27.4
					469008.52	4606419.89	Mercury (Total)	< 0.2
					469008.52	4606419.89	Nickel (Dissolved)	< 1.4
					469008.52	4606419.89	Nickel (Total)	< 1.4
					469008.52	4606419.89	Silver (Total)	< 1
					469008.52	4606419.89	Arsenic (Dissolved)	< 1.2
					469008.52	4606419.89	Arsenic (Total)	1.25
					469008.52	4606419.89	Barium (Dissolved)	20.9
					469008.52	4606419.89	Barium (Total)	24
					469008.52	4606419.89	Cadmium (Dissolved)	< 1
					469008.52	4606419.89	Cadmium (Total)	< 1
					469008.52	4606419.89	Chromium (Total Dissolved)	< 1.2
					469008.52	4606419.89	Chromium (Total)	1.28
					469008.52	4606419.89	Copper (Dissolved)	1.6
					469008.52	4606419.89	Copper (Total)	3.65
					469008.52	4606419.89	Zinc (Total)	14.9
					469008.52	4606419.89	Silica (Molybdate Reactive)	1.9
					469008.52	4606419.89	Nitrogen, Ammonia	0.4
					469008.52	4606419.89	Phosphorus, Total	< 0.03
					469008.52	4606419.89	Selenium (Dissolved)	< 2.2
					469008.52	4606419.89	Selenium (Total)	< 2.2
					469008.52	4606419.89	Biochemical Oxygen Demand (Total) 5-day	< 1
					469008.52	4606419.89	Chemical Oxygen Demand	7.2
					469008.52	4606419.89	Nitrogen, Nitrate+Nitrite	2.2
					469008.52	4606419.89	pH	8
					469008.52	4606419.89	Solids, Non-filterable Residue	7
					469008.52	4606419.89	Solids (Total) Residue	233
					469008.52	4606419.89	Solids, Filterable Residue	216
					469008.52	4606419.89	Total Organic Carbon	1.9
					469008.52	4606419.89	Nitrogen (Total) Kjeldahl	0.8

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					469008.52	4606419.89	Hardness (as CaCO3)	152
					469008.52	4606419.89	Alkalinity (as CaCO3)	106
LMG020-0013	LM-OD	Lake Michigan	2/23/2004	AA20681	483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Hexachlorobenzene	< 0.16
					483384.08	4607389.99	Terbufos	< 0.14
					483384.08	4607389.99	Sulfate	24
					483384.08	4607389.99	Alachlor	< 0.1
					483384.08	4607389.99	Chloride	15
					483384.08	4607389.99	Fluoride	< 0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Atrazine	< 0.28
					483384.08	4607389.99	Oxychlordane	< 0.2
					483384.08	4607389.99	Chlorpyrifos	< 0.14
					483384.08	4607389.99	Acetochlor	< 0.12
					483384.08	4607389.99	trans-Nonachlor	< 0.2
					483384.08	4607389.99	Pendimethalin	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	108
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2
					483384.08	4607389.99	Nonachlor, cis-	< 0.2
					483384.08	4607389.99	Chlordane, Gamma-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	BHC, Gamma- (Lindane)	< 0.08
					483384.08	4607389.99	Endrin	< 0.44
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	53.8
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	3.86
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	7.9 (Q)
					483384.08	4607389.99	Arsenic (Total)	1.66
					483384.08	4607389.99	Barium (Total)	24.7
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	110
					483384.08	4607389.99	Copper (Total)	124
					483384.08	4607389.99	Zinc (Dissolved)	3.4
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Heptachlor	< 0.28
					483384.08	4607389.99	Silica (Molybdate Reactive)	2
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Hexachlorocyclopentadiene	< 0.32
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Selenium (Total)	< 2
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Pentachlorophenol	< 4.2
					483384.08	4607389.99	Chemical Oxygen Demand	7.3
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.4
					483384.08	4607389.99	pH	8
					483384.08	4607389.99	Solids, Non-filterable Residue	4
					483384.08	4607389.99	Solids (Total) Residue	192
					483384.08	4607389.99	Solids, Filterable Residue	177
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.1
					483384.08	4607389.99	Hardness (as CaCO3)	141
					483384.08	4607389.99	Alkalinity (as CaCO3)	114
					483384.08	4607389.99	Total Organic Carbon	2
LMG020-0013	LM-OD	Lake Michigan	3/15/2004	AA21236	483384.08	4607389.99	Desisopropylatrazine	< 2
					483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Hexachlorobenzene	< 0.16
					483384.08	4607389.99	Sulfate	25
					483384.08	4607389.99	Chloride	16
					483384.08	4607389.99	Fluoride	0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Oxychlordane	< 0.2
					483384.08	4607389.99	Chlorpyrifos	< 0.14 (QJ)
					483384.08	4607389.99	trans-Nonachlor	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	104
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Benzo[a]pyrene	< 0.12
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	BHC, Gamma- (Lindane)	< 0.08

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	146
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	9.12
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	8.49 (Q)
					483384.08	4607389.99	Arsenic (Total)	1.7
					483384.08	4607389.99	Barium (Total)	26.6
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	1.31
					483384.08	4607389.99	Copper (Dissolved)	56.4
					483384.08	4607389.99	Copper (Total)	75.5
					483384.08	4607389.99	Zinc (Dissolved)	< 3
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Silica (Molybdate Reactive)	1.8
					483384.08	4607389.99	Heptachlor	< 0.28
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Hexachlorocyclopentadiene	< 0.32
					483384.08	4607389.99	Selenium (Total)	2.72
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Biochemical Oxygen Demand (Total) 5-day	< 1
					483384.08	4607389.99	Chemical Oxygen Demand	5.3
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.4
					483384.08	4607389.99	pH	8.2
					483384.08	4607389.99	Solids, Non-filterable Residue	< 8
					483384.08	4607389.99	Solids (Total) Residue	200
					483384.08	4607389.99	Solids, Filterable Residue	180
					483384.08	4607389.99	Total Organic Carbon	1.6
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.2
					483384.08	4607389.99	Hardness (as CaCO3)	145
					483384.08	4607389.99	Alkalinity (as CaCO3)	112
LMG020-0013	LM-OD	Lake Michigan	4/12/2004	AA21914	483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Di(2-ethylhexyl)adipate	1.5
					483384.08	4607389.99	Di(2-ethylhexyl)phthalate	< 0.8
					483384.08	4607389.99	Hexachlorobenzene	< 0.16
					483384.08	4607389.99	Sulfate	26
					483384.08	4607389.99	Alachlor	< 0.1
					483384.08	4607389.99	Chloride	14
					483384.08	4607389.99	Fluoride	< 0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Atrazine	< 0.28
					483384.08	4607389.99	Chlorpyrifos	< 0.14 (QJ)
					483384.08	4607389.99	Acetochlor	< 0.12
					483384.08	4607389.99	Pendimethalin	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	108
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Benzo[a]pyrene	< 0.12
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2
					483384.08	4607389.99	Nonachlor, cis-	< 0.2
					483384.08	4607389.99	Chlordane, Gamma-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	BHC, Gamma- (Lindane)	< 0.08
					483384.08	4607389.99	Endrin	< 0.44 (QJ)
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	163
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	7.26
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	7.57 (Q)
					483384.08	4607389.99	Arsenic (Total)	1.21
					483384.08	4607389.99	Barium (Total)	25.4
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	84.4
					483384.08	4607389.99	Copper (Total)	113
					483384.08	4607389.99	Zinc (Dissolved)	< 3
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Silica (Molybdate Reactive)	1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483384.08	4607389.99	Heptachlor	< 0.28
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1 (fDJ)
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Selenium (Total)	< 2
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Chemical Oxygen Demand	5.3
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.4
					483384.08	4607389.99	pH	8.2
					483384.08	4607389.99	Solids, Non-filterable Residue	9 (DJ)
					483384.08	4607389.99	Solids (Total) Residue	206
					483384.08	4607389.99	Solids, Filterable Residue	183
					483384.08	4607389.99	Total Organic Carbon	1.8
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.2
					483384.08	4607389.99	Hardness (as CaCO3)	141
					483384.08	4607389.99	Alkalinity (as CaCO3)	110
LMG020-0013	LM-OD	Lake Michigan	6/2/2004	AA23047	483384.08	4607389.99	Desisopropylatrazine	< 2
					483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Di(2-ethylhexyl)adipate	< 4
					483384.08	4607389.99	Di(2-ethylhexyl)phthalate	< 1.14
					483384.08	4607389.99	Hexachlorobenzene	< 0.16
					483384.08	4607389.99	Sulfate	22
					483384.08	4607389.99	Alachlor	< 0.1
					483384.08	4607389.99	Chloride	14
					483384.08	4607389.99	Fluoride	0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Atrazine	< 0.28
					483384.08	4607389.99	Oxychlordane	< 0.2 (QJ)
					483384.08	4607389.99	Chlorpyrifos	< 0.14
					483384.08	4607389.99	Acetochlor	< 0.12
					483384.08	4607389.99	trans-Nonachlor	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	98
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2
					483384.08	4607389.99	Nonachlor, cis-	< 0.2
					483384.08	4607389.99	Chlordane, Gamma-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	Endrin	< 0.44 (QJ)
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	< 20
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	1.61
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	7.04 (Q)
					483384.08	4607389.99	Arsenic (Total)	1.49
					483384.08	4607389.99	Barium (Total)	21.3
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	130
					483384.08	4607389.99	Copper (Total)	144
					483384.08	4607389.99	Zinc (Dissolved)	4.05
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Silica (Molybdate Reactive)	2
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Selenium (Total)	< 2.2
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Pentachlorophenol	< 4.2
					483384.08	4607389.99	Chemical Oxygen Demand	< 5
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.4
					483384.08	4607389.99	pH	8.1
					483384.08	4607389.99	Solids, Non-filterable Residue	< 4
					483384.08	4607389.99	Solids (Total) Residue	180
					483384.08	4607389.99	Solids, Filterable Residue	162
					483384.08	4607389.99	Total Organic Carbon	1.6
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.1
					483384.08	4607389.99	Hardness (as CaCO3)	126
					483384.08	4607389.99	Alkalinity (as CaCO3)	101
LMG020-0013	LM-OD	Lake Michigan	7/7/2004	AA23260	483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Di(2-ethylhexyl)adipate	< 4 (QJ)
					483384.08	4607389.99	Di(2-ethylhexyl)phthalate	< 1.14
					483384.08	4607389.99	Hexachlorobenzene	< 0.16 (QJ)
					483384.08	4607389.99	Simazine	< 0.36 (QJ)
					483384.08	4607389.99	Terbufos	< 0.14

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483384.08	4607389.99	Sulfate	22 (fDJ)
					483384.08	4607389.99	Alachlor	< 0.1 (QJ)
					483384.08	4607389.99	Chloride	15
					483384.08	4607389.99	Fluoride	0.2
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Atrazine	< 0.28
					483384.08	4607389.99	Oxychlordane	< 0.2 (QJ)
					483384.08	4607389.99	Chlorpyrifos	< 0.14 (QJ)
					483384.08	4607389.99	Acetochlor	< 0.12 (QJ)
					483384.08	4607389.99	Pendimethalin	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	94
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	BHC, Gamma- (Lindane)	< 0.08
					483384.08	4607389.99	Desethylatrazine	< 2
					483384.08	4607389.99	Endrin	< 0.44
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	79.2
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	6.5
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	7.41 (Q)
					483384.08	4607389.99	Arsenic (Total)	< 1.2
					483384.08	4607389.99	Barium (Total)	22.2
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	132
					483384.08	4607389.99	Copper (Total)	160
					483384.08	4607389.99	Zinc (Dissolved)	3.82
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Silica (Molybdate Reactive)	1
					483384.08	4607389.99	Heptachlor	< 0.28 (QJ)
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Pentachlorophenol	< 4.2
					483384.08	4607389.99	Biochemical Oxygen Demand (Total) 5-day	< 1
					483384.08	4607389.99	Chemical Oxygen Demand	6.5
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.3
					483384.08	4607389.99	pH	8.2
					483384.08	4607389.99	Solids, Non-filterable Residue	4
					483384.08	4607389.99	Solids (Total) Residue	181
					483384.08	4607389.99	Solids, Filterable Residue	169
					483384.08	4607389.99	Total Organic Carbon	1.8
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.2
					483384.08	4607389.99	Hardness (as CaCO3)	131
					483384.08	4607389.99	Alkalinity (as CaCO3)	97
					483384.08	4607389.99	Coliform, E.coli	< 1
LMG020-0013	LM-OD	Lake Michigan	1/5/2004	AA20553	483384.08	4607389.99	Sulfate	25
					483384.08	4607389.99	Alachlor	< 0.1
					483384.08	4607389.99	Chloride	14
					483384.08	4607389.99	Fluoride	0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Oxychlordane	< 0.2
					483384.08	4607389.99	Acetochlor	< 0.12
					483384.08	4607389.99	Calcium (as CaCO3)	101
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	BHC, Gamma- (Lindane)	< 0.08
					483384.08	4607389.99	Endrin	< 0.44 (QJ)
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	92.1
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	6.34
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	7.68 (Q)
					483384.08	4607389.99	Arsenic (Total)	1.26

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483384.08	4607389.99	Barium (Total)	28.3
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	79.7
					483384.08	4607389.99	Copper (Total)	109
					483384.08	4607389.99	Zinc (Dissolved)	4.38
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Selenium (Total)	< 2
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Biochemical Oxygen Demand (Total) 5-day	< 1
					483384.08	4607389.99	Chemical Oxygen Demand	< 5
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.3
					483384.08	4607389.99	pH	8.1
					483384.08	4607389.99	Solids, Non-filterable Residue	5
					483384.08	4607389.99	Solids (Total) Residue	181
					483384.08	4607389.99	Solids, Filterable Residue	170
					483384.08	4607389.99	Total Organic Carbon	2.2
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.1
					483384.08	4607389.99	Hardness (as CaCO3)	137
					483384.08	4607389.99	Alkalinity (as CaCO3)	101
LMG020-0013	LM-OD	Lake Michigan	5/17/2004	AA22548	483384.08	4607389.99	Desisopropylatrazine	< 2
					483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Di(2-ethylhexyl)adipate	< 4 (QJ)
					483384.08	4607389.99	Di(2-ethylhexyl)phthalate	< 1.14
					483384.08	4607389.99	Hexachlorobenzene	< 0.16
					483384.08	4607389.99	Terbufos	< 0.14
					483384.08	4607389.99	Sulfate	24
					483384.08	4607389.99	Alachlor	< 0.1 (QJ)
					483384.08	4607389.99	Chloride	14
					483384.08	4607389.99	Fluoride	< 0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10
					483384.08	4607389.99	Atrazine	< 0.28
					483384.08	4607389.99	Cyanazine	< 0.4
					483384.08	4607389.99	Oxychlordane	< 0.2 (QJ)
					483384.08	4607389.99	Acetochlor	< 0.12
					483384.08	4607389.99	trans-Nonachlor	< 0.2
					483384.08	4607389.99	Pendimethalin	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	98
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2 (QJ)
					483384.08	4607389.99	Nonachlor, cis-	< 0.2 (QJ)
					483384.08	4607389.99	Chlordane, Gamma-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12 (QJ)
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	BHC, Gamma- (Lindane)	< 0.08
					483384.08	4607389.99	Endrin	< 0.44 (QJ)
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	66.8
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	5.5
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	7.28 (Q)
					483384.08	4607389.99	Arsenic (Total)	1.6
					483384.08	4607389.99	Barium (Total)	24.7
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	103
					483384.08	4607389.99	Copper (Total)	133
					483384.08	4607389.99	Zinc (Dissolved)	3.27
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Silica (Molybdate Reactive)	1.6
					483384.08	4607389.99	Heptachlor	< 0.28
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Phosphorus, Total	< 0.03 (DJ)
					483384.08	4607389.99	Selenium (Total)	< 2.2
					483384.08	4607389.99	Clomazone	< 0.1 (QJ)
					483384.08	4607389.99	Pentachlorophenol	< 4.2
					483384.08	4607389.99	Biochemical Oxygen Demand (Total) 5-day	< 1
					483384.08	4607389.99	Chemical Oxygen Demand	6.1
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.3
					483384.08	4607389.99	pH	8.1
					483384.08	4607389.99	Solids, Non-filterable Residue	< 4

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483384.08	4607389.99	Solids (Total) Residue	184
					483384.08	4607389.99	Solids, Filterable Residue	174
					483384.08	4607389.99	Total Organic Carbon	1.7
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.1
					483384.08	4607389.99	Hardness (as CaCO3)	131
					483384.08	4607389.99	Alkalinity (as CaCO3)	99
LMG020-0013	LM-OD	Lake Michigan	9/2/2004	AA24187	483384.08	4607389.99	Heptachlor Epoxide	< 0.16
					483384.08	4607389.99	Di(2-ethylhexyl)adipate	< 4 (QJ)
					483384.08	4607389.99	Hexachlorobenzene	< 0.16
					483384.08	4607389.99	Terbufos	< 0.14
					483384.08	4607389.99	Sulfate	24
					483384.08	4607389.99	Alachlor	< 0.1
					483384.08	4607389.99	Chloride	16
					483384.08	4607389.99	Fluoride	0.1
					483384.08	4607389.99	Chromium, Hexavalent	< 10 (HJ)
					483384.08	4607389.99	Cyanazine	< 0.4
					483384.08	4607389.99	Oxychlordane	< 0.2
					483384.08	4607389.99	Chlorpyrifos	< 0.14 (QJ)
					483384.08	4607389.99	Acetochlor	< 0.12 (QJ)
					483384.08	4607389.99	trans-Nonachlor	< 0.2
					483384.08	4607389.99	Pendimethalin	< 0.2
					483384.08	4607389.99	Calcium (as CaCO3)	102
					483384.08	4607389.99	4,4'-DDT	< 0.2
					483384.08	4607389.99	Chlordane, Alpha-	< 0.2
					483384.08	4607389.99	Nonachlor, cis-	< 0.2
					483384.08	4607389.99	Chlordane, Gamma-	< 0.2
					483384.08	4607389.99	Metolachlor	< 0.12
					483384.08	4607389.99	Cyanide (Total)	< 0.005
					483384.08	4607389.99	Endrin	< 0.44 (QJ)
					483384.08	4607389.99	Methoxychlor	< 0.36
					483384.08	4607389.99	Iron (Dissolved)	< 8
					483384.08	4607389.99	Iron (Total)	64.6
					483384.08	4607389.99	Lead (Dissolved)	< 1
					483384.08	4607389.99	Lead (Total)	< 1
					483384.08	4607389.99	Manganese (Dissolved)	< 1
					483384.08	4607389.99	Manganese (Total)	6.02
					483384.08	4607389.99	Mercury (Total)	< 0.2
					483384.08	4607389.99	Nickel (Total)	< 1.4
					483384.08	4607389.99	Silver (Total)	< 1
					483384.08	4607389.99	Sodium	8.49 (Q)
					483384.08	4607389.99	Arsenic (Total)	< 1.2
					483384.08	4607389.99	Barium (Total)	24.5
					483384.08	4607389.99	Cadmium (Total)	< 1
					483384.08	4607389.99	Chromium (Total)	< 1.2
					483384.08	4607389.99	Copper (Dissolved)	189
					483384.08	4607389.99	Copper (Total)	223
					483384.08	4607389.99	Zinc (Dissolved)	4.05
					483384.08	4607389.99	Zinc (Total)	< 6
					483384.08	4607389.99	Silica (Molybdate Reactive)	1.6
					483384.08	4607389.99	Heptachlor	< 0.28
					483384.08	4607389.99	Nitrogen, Ammonia	< 0.1
					483384.08	4607389.99	Phosphorus, Total	< 0.03
					483384.08	4607389.99	Selenium (Total)	< 2.2
					483384.08	4607389.99	Clomazone	< 0.1
					483384.08	4607389.99	Biochemical Oxygen Demand (Total) 5-day	< 1
					483384.08	4607389.99	Chemical Oxygen Demand	14
					483384.08	4607389.99	Nitrogen, Nitrate+Nitrite	0.3
					483384.08	4607389.99	pH	8
					483384.08	4607389.99	Solids, Non-filterable Residue	< 4
					483384.08	4607389.99	Solids (Total) Residue	199
					483384.08	4607389.99	Solids, Filterable Residue	181
					483384.08	4607389.99	Total Organic Carbon	2.1
					483384.08	4607389.99	Nitrogen (Total) Kjeldahl	0.2 (DJ)
					483384.08	4607389.99	Hardness (as CaCO3)	144
					483384.08	4607389.99	Alkalinity (as CaCO3)	105
					483384.08	4607389.99	Coliform, E.coli	< 1
LMG020-0014	WL-SL	Wolf Lake	1/8/2004	AA20571	456314.44	4612376.39	Sulfate	45
					456314.44	4612376.39	Chloride	50 (fDJ)
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	< 20
					456314.44	4612376.39	Lead (Total)	< 1
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	< 1.2
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.28
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	0.1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					456314.44	4612376.39	Phosphorus, Total	< 0.03
					456314.44	4612376.39	Biochemical Oxygen Demand (Total) 5-day	< 1
					456314.44	4612376.39	Chemical Oxygen Demand	14.3
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	0.3
					456314.44	4612376.39	pH	8.3
					456314.44	4612376.39	Solids, Non-filterable Residue	< 4
					456314.44	4612376.39	Solids (Total) Residue	281
					456314.44	4612376.39	Solids, Filterable Residue	268
					456314.44	4612376.39	Total Organic Carbon	3.6
					456314.44	4612376.39	Nitrogen (Total) Kjeldahl	0.5
					456314.44	4612376.39	Hardness (as CaCO3)	157
					456314.44	4612376.39	Alkalinity (as CaCO3)	113
LMG020-0014	WL-SL	Wolf Lake	2/18/2004	AA20693	456314.44	4612376.39	Sulfate	39
					456314.44	4612376.39	Chloride	52
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	< 20
					456314.44	4612376.39	Lead (Total)	< 1
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	1.64
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.64
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	0.1
					456314.44	4612376.39	Phosphorus, Total	< 0.03
					456314.44	4612376.39	Chemical Oxygen Demand	12.4
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	0.4
					456314.44	4612376.39	pH	7.9
					456314.44	4612376.39	Solids, Non-filterable Residue	4
					456314.44	4612376.39	Solids (Total) Residue	292
					456314.44	4612376.39	Solids, Filterable Residue	281
					456314.44	4612376.39	Hardness (as CaCO3)	183
					456314.44	4612376.39	Alkalinity (as CaCO3)	136
					456314.44	4612376.39	Total Organic Carbon	3
LMG020-0014	WL-SL	Wolf Lake	5/26/2004	AA22560	456314.44	4612376.39	Sulfate	34
					456314.44	4612376.39	Chloride	56
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	35.8
					456314.44	4612376.39	Lead (Total)	< 1
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	2.34
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.3
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	< 0.03
					456314.44	4612376.39	Biochemical Oxygen Demand (Total) 5-day	< 1 (QJ)
					456314.44	4612376.39	Chemical Oxygen Demand	13.2
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	< 0.1
					456314.44	4612376.39	pH	8.8
					456314.44	4612376.39	Solids, Non-filterable Residue	< 4
					456314.44	4612376.39	Solids (Total) Residue	247
					456314.44	4612376.39	Solids, Filterable Residue	223
					456314.44	4612376.39	Total Organic Carbon	3.6
					456314.44	4612376.39	Nitrogen (Total) Kjeldahl	0.5
					456314.44	4612376.39	Hardness (as CaCO3)	117
					456314.44	4612376.39	Alkalinity (as CaCO3)	87
LMG020-0014	WL-SL	Wolf Lake	3/30/2004	AA21248	456314.44	4612376.39	Sulfate	44
					456314.44	4612376.39	Chloride	51
					456314.44	4612376.39	Iron (Total)	72.5
					456314.44	4612376.39	Lead (Total)	1.43
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	2.26
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.63
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	< 0.03
					456314.44	4612376.39	Biochemical Oxygen Demand (Total) 5-day	1.3
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	0.3
					456314.44	4612376.39	pH	8.3
					456314.44	4612376.39	Solids, Non-filterable Residue	< 4
					456314.44	4612376.39	Solids (Total) Residue	292
					456314.44	4612376.39	Solids, Filterable Residue	281

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					456314.44	4612376.39	Total Organic Carbon	3.5
					456314.44	4612376.39	Hardness (as CaCO3)	168
					456314.44	4612376.39	Alkalinity (as CaCO3)	111
LMG020-0014	WL-SL	Wolf Lake	4/21/2004	AA21926	456314.44	4612376.39	Sulfate	46
					456314.44	4612376.39	Chloride	60
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	104
					456314.44	4612376.39	Lead (Total)	2.02
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	1.85
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.63
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	< 0.03
					456314.44	4612376.39	Chemical Oxygen Demand	18.4
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	0.1 (DJ)
					456314.44	4612376.39	pH	8.2
					456314.44	4612376.39	Solids, Non-filterable Residue	7
					456314.44	4612376.39	Solids (Total) Residue	297
					456314.44	4612376.39	Solids, Filterable Residue	281
					456314.44	4612376.39	Total Organic Carbon	3.9
					456314.44	4612376.39	Nitrogen (Total) Kjeldahl	0.6
					456314.44	4612376.39	Hardness (as CaCO3)	157
					456314.44	4612376.39	Alkalinity (as CaCO3)	111
LMG020-0014	WL-SL	Wolf Lake	6/16/2004	AA23121	456314.44	4612376.39	Sulfate	34
					456314.44	4612376.39	Chloride	54
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	36
					456314.44	4612376.39	Lead (Total)	< 1
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	< 1.2
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.04
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	< 0.03
					456314.44	4612376.39	Chemical Oxygen Demand	17.4
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	< 0.1
					456314.44	4612376.39	pH	8.8
					456314.44	4612376.39	Solids, Non-filterable Residue	5
					456314.44	4612376.39	Solids (Total) Residue	236
					456314.44	4612376.39	Solids, Filterable Residue	238
					456314.44	4612376.39	Total Organic Carbon	4.9
					456314.44	4612376.39	Hardness (as CaCO3)	116
					456314.44	4612376.39	Alkalinity (as CaCO3)	79
LMG020-0014	WL-SL	Wolf Lake	7/19/2004	AA23272	456314.44	4612376.39	Sulfate	34
					456314.44	4612376.39	Chloride	56
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	66
					456314.44	4612376.39	Lead (Total)	1.06
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	2.5
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	< 1
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	0.04
					456314.44	4612376.39	Biochemical Oxygen Demand (Total) 5-day	2.2
					456314.44	4612376.39	Chemical Oxygen Demand	35.9
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	< 0.1
					456314.44	4612376.39	pH	8.8
					456314.44	4612376.39	Solids, Non-filterable Residue	17
					456314.44	4612376.39	Solids (Total) Residue	275
					456314.44	4612376.39	Solids, Filterable Residue	245
					456314.44	4612376.39	Total Organic Carbon	5.2
					456314.44	4612376.39	Nitrogen (Total) Kjeldahl	1
					456314.44	4612376.39	Hardness (as CaCO3)	119
					456314.44	4612376.39	Alkalinity (as CaCO3)	94
LMG020-0014	WL-SL	Wolf Lake	8/16/2004	AA23694	456314.44	4612376.39	Sulfate	31
					456314.44	4612376.39	Chloride	57
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	169

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					456314.44	4612376.39	Lead (Total)	3
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	2.58
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	< 1
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	0.09
					456314.44	4612376.39	Chemical Oxygen Demand	42.4 (DJ)
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	< 0.1
					456314.44	4612376.39	pH	8.7
					456314.44	4612376.39	Solids, Non-filterable Residue	34
					456314.44	4612376.39	Solids (Total) Residue	290
					456314.44	4612376.39	Solids, Filterable Residue	253
					456314.44	4612376.39	Total Organic Carbon	5.9
					456314.44	4612376.39	Nitrogen (Total) Kjeldahl	1.2
					456314.44	4612376.39	Hardness (as CaCO3)	134
					456314.44	4612376.39	Alkalinity (as CaCO3)	104
LMG020-0014	WL-SL	Wolf Lake	9/21/2004	AA24331	456314.44	4612376.39	Sulfate	32
					456314.44	4612376.39	Chloride	59
					456314.44	4612376.39	Cyanide (Total)	< 0.005
					456314.44	4612376.39	Iron (Total)	125
					456314.44	4612376.39	Lead (Total)	2.52
					456314.44	4612376.39	Mercury (Total)	< 0.2
					456314.44	4612376.39	Nickel (Total)	< 1.4
					456314.44	4612376.39	Arsenic (Total)	2.63
					456314.44	4612376.39	Cadmium (Total)	< 1
					456314.44	4612376.39	Chromium (Total)	< 1.2
					456314.44	4612376.39	Copper (Total)	1.01
					456314.44	4612376.39	Zinc (Total)	< 6
					456314.44	4612376.39	Nitrogen, Ammonia	< 0.1
					456314.44	4612376.39	Phosphorus, Total	0.04
					456314.44	4612376.39	Biochemical Oxygen Demand (Total) 5-day	2.1
					456314.44	4612376.39	Chemical Oxygen Demand	37.7
					456314.44	4612376.39	Nitrogen, Nitrate+Nitrite	< 0.1
					456314.44	4612376.39	pH	8.4
					456314.44	4612376.39	Solids, Non-filterable Residue	20
					456314.44	4612376.39	Solids (Total) Residue	291
					456314.44	4612376.39	Solids, Filterable Residue	261
					456314.44	4612376.39	Total Organic Carbon	6.1
					456314.44	4612376.39	Nitrogen (Total) Kjeldahl	1.1
					456314.44	4612376.39	Hardness (as CaCO3)	134
					456314.44	4612376.39	Alkalinity (as CaCO3)	100
LMG040-0003	BD-3W	Burns Ditch	2/23/2004	AA20677	483912.48	4605661.78	Sulfate	94
					483912.48	4605661.78	Chloride	235
					483912.48	4605661.78	Calcium (as CaCO3)	238
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	870
					483912.48	4605661.78	Lead (Total)	1.13
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	2.9
					483912.48	4605661.78	Sodium	124 (Q)
					483912.48	4605661.78	Arsenic (Total)	2.24
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	1.27
					483912.48	4605661.78	Copper (Total)	2.68
					483912.48	4605661.78	Zinc (Total)	14
					483912.48	4605661.78	Silica (Molybdate Reactive)	8
					483912.48	4605661.78	Nitrogen, Ammonia	0.8
					483912.48	4605661.78	Phosphorus, Total	0.16
					483912.48	4605661.78	Chemical Oxygen Demand	25.5
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	3
					483912.48	4605661.78	pH	7.8
					483912.48	4605661.78	Solids, Non-filterable Residue	18
					483912.48	4605661.78	Solids (Total) Residue	813
					483912.48	4605661.78	Solids, Filterable Residue	773
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	2
					483912.48	4605661.78	Hardness (as CaCO3)	365
					483912.48	4605661.78	Alkalinity (as CaCO3)	194
					483912.48	4605661.78	Total Organic Carbon	7.1
LMG040-0003	BD-3W	Burns Ditch	3/15/2004	AA21233	483912.48	4605661.78	Sulfate	95
					483912.48	4605661.78	Chloride	146
					483912.48	4605661.78	Calcium (as CaCO3)	217
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	892
					483912.48	4605661.78	Lead (Total)	1.41
					483912.48	4605661.78	Mercury (Total)	< 0.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483912.48	4605661.78	Nickel (Total)	3.34
					483912.48	4605661.78	Sodium	74.9 (Q)
					483912.48	4605661.78	Arsenic (Total)	1.26
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	1.24
					483912.48	4605661.78	Copper (Total)	2.84
					483912.48	4605661.78	Zinc (Total)	9.57
					483912.48	4605661.78	Silica (Molybdate Reactive)	10
					483912.48	4605661.78	Nitrogen, Ammonia	0.2
					483912.48	4605661.78	Phosphorus, Total	0.11
					483912.48	4605661.78	Biochemical Oxygen Demand (Total) 5-day	2
					483912.48	4605661.78	Chemical Oxygen Demand	44.9
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	3.1
					483912.48	4605661.78	pH	7.9
					483912.48	4605661.78	Solids, Non-filterable Residue	17
					483912.48	4605661.78	Solids (Total) Residue	612
					483912.48	4605661.78	Solids, Filterable Residue	610
					483912.48	4605661.78	Total Organic Carbon	8.6
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.3
					483912.48	4605661.78	Hardness (as CaCO3)	329
					483912.48	4605661.78	Alkalinity (as CaCO3)	169
LMG040-0003	BD-3W	Burns Ditch	4/12/2004	AA21910	483912.48	4605661.78	Sulfate	113
					483912.48	4605661.78	Chloride	136
					483912.48	4605661.78	Calcium (as CaCO3)	271
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	708
					483912.48	4605661.78	Lead (Total)	1.57
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	3.5
					483912.48	4605661.78	Sodium	73.2 (Q)
					483912.48	4605661.78	Arsenic (Total)	1.93
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	< 1.2
					483912.48	4605661.78	Copper (Total)	2.51
					483912.48	4605661.78	Zinc (Total)	8.44
					483912.48	4605661.78	Silica (Molybdate Reactive)	5
					483912.48	4605661.78	Nitrogen, Ammonia	0.1 (fDJ)
					483912.48	4605661.78	Phosphorus, Total	0.12
					483912.48	4605661.78	Chemical Oxygen Demand	39.6
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	2
					483912.48	4605661.78	pH	8.3
					483912.48	4605661.78	Solids, Non-filterable Residue	25 (DJ)
					483912.48	4605661.78	Solids (Total) Residue	777
					483912.48	4605661.78	Solids, Filterable Residue	678
					483912.48	4605661.78	Total Organic Carbon	10.4
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.6
					483912.48	4605661.78	Hardness (as CaCO3)	352
					483912.48	4605661.78	Alkalinity (as CaCO3)	215
LMG040-0003	BD-3W	Burns Ditch	6/2/2004	AA23043	483912.48	4605661.78	Sulfate	69
					483912.48	4605661.78	Chloride	83
					483912.48	4605661.78	Calcium (as CaCO3)	186
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	1690
					483912.48	4605661.78	Lead (Total)	2.84
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	3.28
					483912.48	4605661.78	Sodium	47 (Q)
					483912.48	4605661.78	Arsenic (Total)	2.51
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	2.17
					483912.48	4605661.78	Copper (Total)	3.37
					483912.48	4605661.78	Zinc (Total)	12.5
					483912.48	4605661.78	Silica (Molybdate Reactive)	11
					483912.48	4605661.78	Nitrogen, Ammonia	0.1
					483912.48	4605661.78	Phosphorus, Total	0.18
					483912.48	4605661.78	Chemical Oxygen Demand	32.3
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	2.4
					483912.48	4605661.78	pH	7.8
					483912.48	4605661.78	Solids, Non-filterable Residue	49
					483912.48	4605661.78	Solids (Total) Residue	531
					483912.48	4605661.78	Solids, Filterable Residue	441
					483912.48	4605661.78	Total Organic Carbon	8.4
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.8
					483912.48	4605661.78	Hardness (as CaCO3)	272
					483912.48	4605661.78	Alkalinity (as CaCO3)	164
LMG040-0003	BD-3W	Burns Ditch	7/7/2004	AA23256	483912.48	4605661.78	Sulfate	87 (fDJ)
					483912.48	4605661.78	Chloride	118
					483912.48	4605661.78	Calcium (as CaCO3)	196
					483912.48	4605661.78	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483912.48	4605661.78	Iron (Total)	518
					483912.48	4605661.78	Lead (Total)	1.23
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	3.07
					483912.48	4605661.78	Sodium	68.7 (Q)
					483912.48	4605661.78	Arsenic (Total)	2.33
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	< 1.2
					483912.48	4605661.78	Copper (Total)	2.41
					483912.48	4605661.78	Zinc (Total)	< 6
					483912.48	4605661.78	Silica (Molybdate Reactive)	10
					483912.48	4605661.78	Nitrogen, Ammonia	< 0.1
					483912.48	4605661.78	Phosphorus, Total	0.16
					483912.48	4605661.78	Biochemical Oxygen Demand (Total) 5-day	2.6
					483912.48	4605661.78	Chemical Oxygen Demand	32.6
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	1.2
					483912.48	4605661.78	pH	7.9
					483912.48	4605661.78	Solids, Non-filterable Residue	16
					483912.48	4605661.78	Solids (Total) Residue	619
					483912.48	4605661.78	Solids, Filterable Residue	561
					483912.48	4605661.78	Total Organic Carbon	9.2
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.8
					483912.48	4605661.78	Hardness (as CaCO3)	334
					483912.48	4605661.78	Alkalinity (as CaCO3)	190
					483912.48	4605661.78	Coliform, E.coli	340
LMG040-0003	BD-3W	Burns Ditch	1/5/2004	AA20557	483912.48	4605661.78	Sulfate	120
					483912.48	4605661.78	Chloride	144
					483912.48	4605661.78	Calcium (as CaCO3)	260
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	586
					483912.48	4605661.78	Lead (Total)	< 1
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	3.02
					483912.48	4605661.78	Sodium	80.9 (Q)
					483912.48	4605661.78	Arsenic (Total)	< 1.2
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	< 1.2
					483912.48	4605661.78	Copper (Total)	1.99
					483912.48	4605661.78	Zinc (Total)	8.76
					483912.48	4605661.78	Nitrogen, Ammonia	0.2
					483912.48	4605661.78	Phosphorus, Total	0.1
					483912.48	4605661.78	Biochemical Oxygen Demand (Total) 5-day	1
					483912.48	4605661.78	Chemical Oxygen Demand	22
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	3.5
					483912.48	4605661.78	pH	8
					483912.48	4605661.78	Solids, Non-filterable Residue	8
					483912.48	4605661.78	Solids (Total) Residue	713
					483912.48	4605661.78	Solids, Filterable Residue	676
					483912.48	4605661.78	Total Organic Carbon	7.7
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.2
					483912.48	4605661.78	Hardness (as CaCO3)	392
					483912.48	4605661.78	Alkalinity (as CaCO3)	205
LMG040-0003	BD-3W	Burns Ditch	5/17/2004	AA22544	483912.48	4605661.78	Sulfate	83
					483912.48	4605661.78	Chloride	110
					483912.48	4605661.78	Calcium (as CaCO3)	184
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	1390
					483912.48	4605661.78	Lead (Total)	2.85
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	3.61
					483912.48	4605661.78	Sodium	62.5 (Q)
					483912.48	4605661.78	Arsenic (Total)	2.28
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	1.94
					483912.48	4605661.78	Copper (Total)	3.46
					483912.48	4605661.78	Zinc (Total)	11.6
					483912.48	4605661.78	Silica (Molybdate Reactive)	10
					483912.48	4605661.78	Nitrogen, Ammonia	0.3
					483912.48	4605661.78	Phosphorus, Total	0.16 (DJ)
					483912.48	4605661.78	Biochemical Oxygen Demand (Total) 5-day	2.6
					483912.48	4605661.78	Chemical Oxygen Demand	33
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	2.2
					483912.48	4605661.78	pH	7.8
					483912.48	4605661.78	Solids, Non-filterable Residue	34
					483912.48	4605661.78	Solids (Total) Residue	565
					483912.48	4605661.78	Solids, Filterable Residue	523
					483912.48	4605661.78	Total Organic Carbon	9.1
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.6
					483912.48	4605661.78	Hardness (as CaCO3)	291

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					483912.48	4605661.78	Alkalinity (as CaCO3)	168
LMG040-0003	BD-3W	Burns Ditch	9/1/2004	AA24184	483912.48	4605661.78	Sulfate	60
					483912.48	4605661.78	Chloride	68
					483912.48	4605661.78	Calcium (as CaCO3)	154
					483912.48	4605661.78	Cyanide (Total)	< 0.005
					483912.48	4605661.78	Iron (Total)	1280
					483912.48	4605661.78	Lead (Total)	2.1
					483912.48	4605661.78	Mercury (Total)	< 0.2
					483912.48	4605661.78	Nickel (Total)	2.9
					483912.48	4605661.78	Sodium	40.9 (Q)
					483912.48	4605661.78	Arsenic (Total)	2.4
					483912.48	4605661.78	Cadmium (Total)	< 1
					483912.48	4605661.78	Chromium (Total)	1.32
					483912.48	4605661.78	Copper (Total)	2.96
					483912.48	4605661.78	Zinc (Total)	10
					483912.48	4605661.78	Silica (Molybdate Reactive)	13
					483912.48	4605661.78	Nitrogen, Ammonia	0.1
					483912.48	4605661.78	Phosphorus, Total	0.2
					483912.48	4605661.78	Biochemical Oxygen Demand (Total) 5-day	1.6
					483912.48	4605661.78	Chemical Oxygen Demand	33.8
					483912.48	4605661.78	Nitrogen, Nitrate+Nitrite	1.2
					483912.48	4605661.78	pH	7.8
					483912.48	4605661.78	Solids, Non-filterable Residue	29
					483912.48	4605661.78	Solids (Total) Residue	433
					483912.48	4605661.78	Solids, Filterable Residue	382
					483912.48	4605661.78	Total Organic Carbon	8.5
					483912.48	4605661.78	Nitrogen (Total) Kjeldahl	1.2 (DJ)
					483912.48	4605661.78	Hardness (as CaCO3)	228
					483912.48	4605661.78	Alkalinity (as CaCO3)	144
LMG050-0006	SLC-1	Salt Cr	2/23/2004	AA20676	487800.74	4605345.74	Sulfate	86
					487800.74	4605345.74	Chloride	111
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	1020
					487800.74	4605345.74	Lead (Total)	< 1
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	2.19
					487800.74	4605345.74	Arsenic (Total)	1.86
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	< 1.2
					487800.74	4605345.74	Copper (Total)	2.37
					487800.74	4605345.74	Zinc (Total)	8.22
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.11
					487800.74	4605345.74	Chemical Oxygen Demand	20.6
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	2.2
					487800.74	4605345.74	pH	7.9
					487800.74	4605345.74	Solids, Non-filterable Residue	17
					487800.74	4605345.74	Solids (Total) Residue	590
					487800.74	4605345.74	Solids, Filterable Residue	558
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	0.8
					487800.74	4605345.74	Hardness (as CaCO3)	348
					487800.74	4605345.74	Alkalinity (as CaCO3)	199
					487800.74	4605345.74	Total Organic Carbon	6
LMG050-0006	SLC-1	Salt Cr	3/15/2004	AA21231	487800.74	4605345.74	Sulfate	100
					487800.74	4605345.74	Chloride	87
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	439
					487800.74	4605345.74	Lead (Total)	< 1
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	1.77
					487800.74	4605345.74	Arsenic (Total)	< 1.2
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	< 1.2
					487800.74	4605345.74	Copper (Total)	1.53
					487800.74	4605345.74	Zinc (Total)	< 6
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.05
					487800.74	4605345.74	Biochemical Oxygen Demand (Total) 5-day	1.1
					487800.74	4605345.74	Chemical Oxygen Demand	15.1
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	2.4
					487800.74	4605345.74	pH	8.3
					487800.74	4605345.74	Solids, Non-filterable Residue	7
					487800.74	4605345.74	Solids (Total) Residue	584
					487800.74	4605345.74	Solids, Filterable Residue	575
					487800.74	4605345.74	Total Organic Carbon	4.9
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	0.6
					487800.74	4605345.74	Hardness (as CaCO3)	402
					487800.74	4605345.74	Alkalinity (as CaCO3)	240
LMG050-0006	SLC-1	Salt Cr	4/12/2004	AA21909	487800.74	4605345.74	Sulfate	106

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					487800.74	4605345.74	Chloride	93
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	579
					487800.74	4605345.74	Lead (Total)	< 1
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	2.29
					487800.74	4605345.74	Arsenic (Total)	< 1.2
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	< 1.2
					487800.74	4605345.74	Copper (Total)	2.14
					487800.74	4605345.74	Zinc (Total)	6.01
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1 (fDJ)
					487800.74	4605345.74	Phosphorus, Total	0.08
					487800.74	4605345.74	Chemical Oxygen Demand	17.5
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	2.7
					487800.74	4605345.74	pH	8.2
					487800.74	4605345.74	Solids, Non-filterable Residue	6 (DJ)
					487800.74	4605345.74	Solids (Total) Residue	643
					487800.74	4605345.74	Solids, Filterable Residue	584
					487800.74	4605345.74	Total Organic Carbon	5.2
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	0.7
					487800.74	4605345.74	Hardness (as CaCO3)	391
					487800.74	4605345.74	Alkalinity (as CaCO3)	266
LMG050-0006	SLC-1	Salt Cr	6/2/2004	AA23042	487800.74	4605345.74	Sulfate	68
					487800.74	4605345.74	Chloride	62
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	3650
					487800.74	4605345.74	Lead (Total)	3.75
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	4.05
					487800.74	4605345.74	Arsenic (Total)	2.99
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	2.77
					487800.74	4605345.74	Copper (Total)	4.88
					487800.74	4605345.74	Zinc (Total)	17
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.21
					487800.74	4605345.74	Chemical Oxygen Demand	36.8
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	1.6
					487800.74	4605345.74	pH	7.9
					487800.74	4605345.74	Solids, Non-filterable Residue	81
					487800.74	4605345.74	Solids (Total) Residue	556
					487800.74	4605345.74	Solids, Filterable Residue	436
					487800.74	4605345.74	Total Organic Carbon	8.4
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	1.6
					487800.74	4605345.74	Hardness (as CaCO3)	304
					487800.74	4605345.74	Alkalinity (as CaCO3)	201
LMG050-0006	SLC-1	Salt Cr	7/6/2004	AA23255	487800.74	4605345.74	Sulfate	82 (fDJ)
					487800.74	4605345.74	Chloride	68
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	1620
					487800.74	4605345.74	Lead (Total)	1.62
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	2.69
					487800.74	4605345.74	Arsenic (Total)	1.89
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	1.36
					487800.74	4605345.74	Copper (Total)	2.84
					487800.74	4605345.74	Zinc (Total)	6.28
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.16
					487800.74	4605345.74	Biochemical Oxygen Demand (Total) 5-day	< 1
					487800.74	4605345.74	Chemical Oxygen Demand	18
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	1.3
					487800.74	4605345.74	pH	8.2
					487800.74	4605345.74	Solids, Non-filterable Residue	31
					487800.74	4605345.74	Solids (Total) Residue	563
					487800.74	4605345.74	Solids, Filterable Residue	505
					487800.74	4605345.74	Total Organic Carbon	4.7
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	0.8
					487800.74	4605345.74	Hardness (as CaCO3)	362
					487800.74	4605345.74	Alkalinity (as CaCO3)	238
LMG050-0006	SLC-1	Salt Cr	1/5/2004	AA20558	487800.74	4605345.74	Sulfate	108
					487800.74	4605345.74	Chloride	78
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	540
					487800.74	4605345.74	Lead (Total)	< 1
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	2.01

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					487800.74	4605345.74	Arsenic (Total)	< 1.2
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	< 1.2
					487800.74	4605345.74	Copper (Total)	1.79
					487800.74	4605345.74	Zinc (Total)	< 6
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.04
					487800.74	4605345.74	Biochemical Oxygen Demand (Total) 5-day	< 1
					487800.74	4605345.74	Chemical Oxygen Demand	14.3
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	2.2
					487800.74	4605345.74	pH	8.2
					487800.74	4605345.74	Solids, Non-filterable Residue	< 4
					487800.74	4605345.74	Solids (Total) Residue	584
					487800.74	4605345.74	Solids, Filterable Residue	556
					487800.74	4605345.74	Total Organic Carbon	5.2
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	0.6
					487800.74	4605345.74	Hardness (as CaCO3)	397
					487800.74	4605345.74	Alkalinity (as CaCO3)	234
LMG050-0006	SLC-1	Salt Cr	5/17/2004	AA22543	487800.74	4605345.74	Sulfate	82
					487800.74	4605345.74	Chloride	76
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	1570
					487800.74	4605345.74	Lead (Total)	1.56
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	3.16
					487800.74	4605345.74	Arsenic (Total)	1.95
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	1.5
					487800.74	4605345.74	Copper (Total)	3.1
					487800.74	4605345.74	Zinc (Total)	8.5
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.12 (DJ)
					487800.74	4605345.74	Biochemical Oxygen Demand (Total) 5-day	1.2
					487800.74	4605345.74	Chemical Oxygen Demand	24.1
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	1.4
					487800.74	4605345.74	pH	8
					487800.74	4605345.74	Solids, Non-filterable Residue	27
					487800.74	4605345.74	Solids (Total) Residue	576
					487800.74	4605345.74	Solids, Filterable Residue	519
					487800.74	4605345.74	Total Organic Carbon	7.1
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	0.9
					487800.74	4605345.74	Hardness (as CaCO3)	357
					487800.74	4605345.74	Alkalinity (as CaCO3)	229
LMG050-0006	SLC-1	Salt Cr	9/1/2004	AA24183	487800.74	4605345.74	Sulfate	67
					487800.74	4605345.74	Chloride	59
					487800.74	4605345.74	Cyanide (Total)	< 0.005
					487800.74	4605345.74	Iron (Total)	1700
					487800.74	4605345.74	Lead (Total)	1.5
					487800.74	4605345.74	Mercury (Total)	< 0.2
					487800.74	4605345.74	Nickel (Total)	2.8
					487800.74	4605345.74	Arsenic (Total)	2.43
					487800.74	4605345.74	Cadmium (Total)	< 1
					487800.74	4605345.74	Chromium (Total)	< 1.2
					487800.74	4605345.74	Copper (Total)	2.81
					487800.74	4605345.74	Zinc (Total)	8.08
					487800.74	4605345.74	Nitrogen, Ammonia	< 0.1
					487800.74	4605345.74	Phosphorus, Total	0.16
					487800.74	4605345.74	Biochemical Oxygen Demand (Total) 5-day	1.2
					487800.74	4605345.74	Chemical Oxygen Demand	34.6
					487800.74	4605345.74	Nitrogen, Nitrate+Nitrite	1.5
					487800.74	4605345.74	pH	8
					487800.74	4605345.74	Solids, Non-filterable Residue	29
					487800.74	4605345.74	Solids (Total) Residue	532
					487800.74	4605345.74	Solids, Filterable Residue	470
					487800.74	4605345.74	Total Organic Carbon	9.2
					487800.74	4605345.74	Nitrogen (Total) Kjeldahl	1 (DJ)
					487800.74	4605345.74	Hardness (as CaCO3)	349
					487800.74	4605345.74	Alkalinity (as CaCO3)	235
LMG050-0007	SLC-17	Salt Cr	2/23/2004	AA20675	488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Hexachlorobenzene	< 0.16
					488175.85	4594119.72	Terbufos	< 0.14
					488175.85	4594119.72	Sulfate	85
					488175.85	4594119.72	Alachlor	< 0.1
					488175.85	4594119.72	Chloride	103
					488175.85	4594119.72	Atrazine	< 0.28
					488175.85	4594119.72	Oxychlordane	< 0.2
					488175.85	4594119.72	Chlorpyrifos	< 0.14
					488175.85	4594119.72	Acetochlor	< 0.12
					488175.85	4594119.72	trans-Nonachlor	< 0.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					488175.85	4594119.72	Pendimethalin	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2
					488175.85	4594119.72	Nonachlor, cis-	< 0.2
					488175.85	4594119.72	Chlordane, Gamma-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	BHC, Gamma- (Lindane)	< 0.08
					488175.85	4594119.72	Endrin	< 0.44
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	1070
					488175.85	4594119.72	Lead (Total)	< 1
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	2.31
					488175.85	4594119.72	Arsenic (Total)	1.9
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	< 1.2
					488175.85	4594119.72	Copper (Total)	2.52
					488175.85	4594119.72	Zinc (Total)	8.37
					488175.85	4594119.72	Heptachlor	< 0.28
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Hexachlorocyclopentadiene	< 0.32
					488175.85	4594119.72	Phosphorus, Total	0.12
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Pentachlorophenol	< 4.2
					488175.85	4594119.72	Chemical Oxygen Demand	21.8
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	2.5
					488175.85	4594119.72	pH	7.9
					488175.85	4594119.72	Solids, Non-filterable Residue	12
					488175.85	4594119.72	Solids (Total) Residue	604
					488175.85	4594119.72	Solids, Filterable Residue	582
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	0.8
					488175.85	4594119.72	Hardness (as CaCO3)	374
					488175.85	4594119.72	Alkalinity (as CaCO3)	221
					488175.85	4594119.72	Total Organic Carbon	6.4
LMG050-0007	SLC-17	Salt Cr	3/15/2004	AA21230	488175.85	4594119.72	Desisopropylatrazine	< 2
					488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Hexachlorobenzene	< 0.16
					488175.85	4594119.72	Sulfate	101
					488175.85	4594119.72	Chloride	85
					488175.85	4594119.72	Oxychlordane	< 0.2
					488175.85	4594119.72	Chlorpyrifos	< 0.14 (QJ)
					488175.85	4594119.72	trans-Nonachlor	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Benzo[a]pyrene	< 0.12
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	BHC, Gamma- (Lindane)	< 0.08
					488175.85	4594119.72	Iron (Total)	680
					488175.85	4594119.72	Lead (Total)	< 1
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	2.01
					488175.85	4594119.72	Arsenic (Total)	1.99
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	< 1.2
					488175.85	4594119.72	Copper (Total)	1.93
					488175.85	4594119.72	Zinc (Total)	< 6
					488175.85	4594119.72	Heptachlor	< 0.28
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Phosphorus, Total	0.08
					488175.85	4594119.72	Hexachlorocyclopentadiene	< 0.32
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Biochemical Oxygen Demand (Total) 5-day	1
					488175.85	4594119.72	Chemical Oxygen Demand	15.9
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	3
					488175.85	4594119.72	pH	8.2
					488175.85	4594119.72	Solids, Non-filterable Residue	8
					488175.85	4594119.72	Solids (Total) Residue	618
					488175.85	4594119.72	Solids, Filterable Residue	585
					488175.85	4594119.72	Total Organic Carbon	5.3
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	0.8
					488175.85	4594119.72	Hardness (as CaCO3)	405
					488175.85	4594119.72	Alkalinity (as CaCO3)	245
LMG050-0007	SLC-17	Salt Cr	4/12/2004	AA21908	488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Di(2-ethylhexyl)adipate	< 0.42
					488175.85	4594119.72	Di(2-ethylhexyl)phthalate	< 0.8
					488175.85	4594119.72	Hexachlorobenzene	< 0.16
					488175.85	4594119.72	Sulfate	103

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					488175.85	4594119.72	Alachlor	< 0.1
					488175.85	4594119.72	Chloride	83
					488175.85	4594119.72	Atrazine	< 0.28
					488175.85	4594119.72	Chlorpyrifos	< 0.14 (QJ)
					488175.85	4594119.72	Acetochlor	< 0.12
					488175.85	4594119.72	Pendimethalin	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Benzo[a]pyrene	< 0.12
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2
					488175.85	4594119.72	Nonachlor, cis-	< 0.2
					488175.85	4594119.72	Chlordane, Gamma-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	BHC, Gamma- (Lindane)	< 0.08
					488175.85	4594119.72	Endrin	< 0.44 (QJ)
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	793
					488175.85	4594119.72	Lead (Total)	< 1
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	2.39
					488175.85	4594119.72	Arsenic (Total)	1.58
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	< 1.2
					488175.85	4594119.72	Copper (Total)	2.48
					488175.85	4594119.72	Zinc (Total)	6.29
					488175.85	4594119.72	Heptachlor	< 0.28
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1 (fDJ)
					488175.85	4594119.72	Phosphorus, Total	0.12
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Chemical Oxygen Demand	17.5
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	2.9
					488175.85	4594119.72	pH	8.2
					488175.85	4594119.72	Solids, Non-filterable Residue	6 (DJ)
					488175.85	4594119.72	Solids (Total) Residue	657
					488175.85	4594119.72	Solids, Filterable Residue	592
					488175.85	4594119.72	Total Organic Carbon	5.4
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	0.8
					488175.85	4594119.72	Hardness (as CaCO3)	414
					488175.85	4594119.72	Alkalinity (as CaCO3)	271
LMG050-0007	SLC-17	Salt Cr	6/2/2004	AA23041	488175.85	4594119.72	Desisopropylatrazine	< 2
					488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Di(2-ethylhexyl)adipate	< 4
					488175.85	4594119.72	Di(2-ethylhexyl)phthalate	< 1.14
					488175.85	4594119.72	Hexachlorobenzene	< 0.16
					488175.85	4594119.72	Sulfate	78
					488175.85	4594119.72	Alachlor	< 0.1
					488175.85	4594119.72	Chloride	64
					488175.85	4594119.72	Atrazine	< 0.28
					488175.85	4594119.72	Oxychlordane	< 0.2 (QJ)
					488175.85	4594119.72	Chlorpyrifos	< 0.14
					488175.85	4594119.72	Acetochlor	< 0.12
					488175.85	4594119.72	trans-Nonachlor	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2
					488175.85	4594119.72	Nonachlor, cis-	< 0.2
					488175.85	4594119.72	Chlordane, Gamma-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	Endrin	< 0.44 (QJ)
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	2900
					488175.85	4594119.72	Lead (Total)	3.07
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	3.49
					488175.85	4594119.72	Arsenic (Total)	2.53
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	1.85
					488175.85	4594119.72	Copper (Total)	4.49
					488175.85	4594119.72	Zinc (Total)	13.5
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Phosphorus, Total	0.19
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Pentachlorophenol	< 4.2
					488175.85	4594119.72	Chemical Oxygen Demand	31.5
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	1.6
					488175.85	4594119.72	pH	8
					488175.85	4594119.72	Solids, Non-filterable Residue	48
					488175.85	4594119.72	Solids (Total) Residue	565
					488175.85	4594119.72	Solids, Filterable Residue	497

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					488175.85	4594119.72	Total Organic Carbon	8
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	1.4
					488175.85	4594119.72	Hardness (as CaCO3)	340
					488175.85	4594119.72	Alkalinity (as CaCO3)	223
LMG050-0007	SLC-17	Salt Cr	7/6/2004	AA23254	488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Di(2-ethylhexyl)adipate	< 4 (QJ)
					488175.85	4594119.72	Di(2-ethylhexyl)phthalate	< 1.14
					488175.85	4594119.72	Hexachlorobenzene	< 0.16 (QJ)
					488175.85	4594119.72	Simazine	< 0.36 (QJ)
					488175.85	4594119.72	Terbufos	< 0.14
					488175.85	4594119.72	Sulfate	76 (fDJ)
					488175.85	4594119.72	Alachlor	< 0.1 (QJ)
					488175.85	4594119.72	Chloride	78
					488175.85	4594119.72	Atrazine	< 0.28
					488175.85	4594119.72	Oxychlordane	< 0.2 (QJ)
					488175.85	4594119.72	Chlorpyrifos	< 0.14 (QJ)
					488175.85	4594119.72	Acetochlor	< 0.12 (QJ)
					488175.85	4594119.72	Pendimethalin	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	BHC, Gamma- (Lindane)	< 0.08
					488175.85	4594119.72	Desethylatrazine	< 2
					488175.85	4594119.72	Endrin	< 0.44
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	1540
					488175.85	4594119.72	Lead (Total)	1.71
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	2.72
					488175.85	4594119.72	Arsenic (Total)	2.04
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	< 1.2
					488175.85	4594119.72	Copper (Total)	3.42
					488175.85	4594119.72	Zinc (Total)	6.98
					488175.85	4594119.72	Heptachlor	< 0.28 (QJ)
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Phosphorus, Total	0.18
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Pentachlorophenol	< 4.2
					488175.85	4594119.72	Biochemical Oxygen Demand (Total) 5-day	< 1
					488175.85	4594119.72	Chemical Oxygen Demand	18.8
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	2.5
					488175.85	4594119.72	pH	8.2
					488175.85	4594119.72	Solids, Non-filterable Residue	23
					488175.85	4594119.72	Solids (Total) Residue	623
					488175.85	4594119.72	Solids, Filterable Residue	551
					488175.85	4594119.72	Total Organic Carbon	4.6
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	0.8
					488175.85	4594119.72	Hardness (as CaCO3)	394
					488175.85	4594119.72	Alkalinity (as CaCO3)	252
LMG050-0007	SLC-17	Salt Cr	1/5/2004	AA20559	488175.85	4594119.72	Sulfate	108
					488175.85	4594119.72	Alachlor	< 0.1
					488175.85	4594119.72	Chloride	99
					488175.85	4594119.72	Oxychlordane	< 0.2
					488175.85	4594119.72	Acetochlor	< 0.12
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	BHC, Gamma- (Lindane)	< 0.08
					488175.85	4594119.72	Endrin	< 0.44 (QJ)
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	581
					488175.85	4594119.72	Lead (Total)	< 1
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	2
					488175.85	4594119.72	Arsenic (Total)	< 1.2
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	< 1.2
					488175.85	4594119.72	Copper (Total)	1.78
					488175.85	4594119.72	Zinc (Total)	< 6
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Phosphorus, Total	0.06
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Biochemical Oxygen Demand (Total) 5-day	< 1
					488175.85	4594119.72	Chemical Oxygen Demand	14.7
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	3.2
					488175.85	4594119.72	pH	8.1
					488175.85	4594119.72	Solids, Non-filterable Residue	6
					488175.85	4594119.72	Solids (Total) Residue	657

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					488175.85	4594119.72	Solids, Filterable Residue	620
					488175.85	4594119.72	Total Organic Carbon	5
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	0.7
					488175.85	4594119.72	Hardness (as CaCO3)	414
					488175.85	4594119.72	Alkalinity (as CaCO3)	241
LMG050-0007	SLC-17	Salt Cr	5/17/2004	AA22542	488175.85	4594119.72	Desisopropylatrazine	< 2
					488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Di(2-ethylhexyl)adipate	< 4 (QJ)
					488175.85	4594119.72	Di(2-ethylhexyl)phthalate	< 1.14
					488175.85	4594119.72	Hexachlorobenzene	< 0.16
					488175.85	4594119.72	Terbufos	< 0.14
					488175.85	4594119.72	Sulfate	87
					488175.85	4594119.72	Alachlor	< 0.1 (QJ)
					488175.85	4594119.72	Chloride	72
					488175.85	4594119.72	Atrazine	< 0.28
					488175.85	4594119.72	Cyanazine	< 0.4
					488175.85	4594119.72	Oxychlordane	< 0.2 (QJ)
					488175.85	4594119.72	Acetochlor	< 0.12
					488175.85	4594119.72	trans-Nonachlor	< 0.2
					488175.85	4594119.72	Pendimethalin	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2 (QJ)
					488175.85	4594119.72	Nonachlor, cis-	< 0.2 (QJ)
					488175.85	4594119.72	Chlordane, Gamma-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12 (QJ)
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	BHC, Gamma- (Lindane)	< 0.08
					488175.85	4594119.72	Endrin	< 0.44 (QJ)
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	1660
					488175.85	4594119.72	Lead (Total)	1.68
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	3
					488175.85	4594119.72	Arsenic (Total)	1.97
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	1.25
					488175.85	4594119.72	Copper (Total)	3.22
					488175.85	4594119.72	Zinc (Total)	8.72
					488175.85	4594119.72	Heptachlor	< 0.28
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Phosphorus, Total	0.15 (DJ)
					488175.85	4594119.72	Clomazone	< 0.1 (QJ)
					488175.85	4594119.72	Pentachlorophenol	< 4.2
					488175.85	4594119.72	Biochemical Oxygen Demand (Total) 5-day	< 1
					488175.85	4594119.72	Chemical Oxygen Demand	24.9
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	2.4
					488175.85	4594119.72	pH	8
					488175.85	4594119.72	Solids, Non-filterable Residue	23
					488175.85	4594119.72	Solids (Total) Residue	592
					488175.85	4594119.72	Solids, Filterable Residue	504
					488175.85	4594119.72	Total Organic Carbon	7.1
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	1.2
					488175.85	4594119.72	Hardness (as CaCO3)	384
					488175.85	4594119.72	Alkalinity (as CaCO3)	248
LMG050-0007	SLC-17	Salt Cr	9/1/2004	AA24182	488175.85	4594119.72	Heptachlor Epoxide	< 0.16
					488175.85	4594119.72	Di(2-ethylhexyl)adipate	< 4 (QJ)
					488175.85	4594119.72	Hexachlorobenzene	< 0.16
					488175.85	4594119.72	Terbufos	< 0.14
					488175.85	4594119.72	Sulfate	71
					488175.85	4594119.72	Alachlor	< 0.1
					488175.85	4594119.72	Chloride	59
					488175.85	4594119.72	Cyanazine	< 0.4
					488175.85	4594119.72	Oxychlordane	< 0.2
					488175.85	4594119.72	Chlorpyrifos	< 0.14 (QJ)
					488175.85	4594119.72	Acetochlor	< 0.12 (QJ)
					488175.85	4594119.72	trans-Nonachlor	< 0.2
					488175.85	4594119.72	Pendimethalin	< 0.2
					488175.85	4594119.72	4,4'-DDT	< 0.2
					488175.85	4594119.72	Chlordane, Alpha-	< 0.2
					488175.85	4594119.72	Nonachlor, cis-	< 0.2
					488175.85	4594119.72	Chlordane, Gamma-	< 0.2
					488175.85	4594119.72	Metolachlor	< 0.12
					488175.85	4594119.72	Cyanide (Total)	< 0.005
					488175.85	4594119.72	Endrin	< 0.44 (QJ)
					488175.85	4594119.72	Methoxychlor	< 0.36
					488175.85	4594119.72	Iron (Total)	1620
					488175.85	4594119.72	Lead (Total)	1.41
					488175.85	4594119.72	Mercury (Total)	< 0.2
					488175.85	4594119.72	Nickel (Total)	2.64

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					488175.85	4594119.72	Arsenic (Total)	1.93
					488175.85	4594119.72	Cadmium (Total)	< 1
					488175.85	4594119.72	Chromium (Total)	< 1.2
					488175.85	4594119.72	Copper (Total)	3.19
					488175.85	4594119.72	Zinc (Total)	7.36
					488175.85	4594119.72	Heptachlor	< 0.28
					488175.85	4594119.72	Nitrogen, Ammonia	< 0.1
					488175.85	4594119.72	Phosphorus, Total	0.14
					488175.85	4594119.72	Clomazone	< 0.1
					488175.85	4594119.72	Biochemical Oxygen Demand (Total) 5-day	1
					488175.85	4594119.72	Chemical Oxygen Demand	33.4
					488175.85	4594119.72	Nitrogen, Nitrate+Nitrite	2.2
					488175.85	4594119.72	pH	8
					488175.85	4594119.72	Solids, Non-filterable Residue	25
					488175.85	4594119.72	Solids (Total) Residue	558
					488175.85	4594119.72	Solids, Filterable Residue	491
					488175.85	4594119.72	Total Organic Carbon	9.5
					488175.85	4594119.72	Nitrogen (Total) Kjeldahl	1.2 (DJ)
					488175.85	4594119.72	Hardness (as CaCO3)	361
					488175.85	4594119.72	Alkalinity (as CaCO3)	236
LMG060-0005	BD-2E	Burns Ditch	2/23/2004	AA20679	485511.89	4606768.60	Sulfate	64
					485511.89	4606768.60	Chloride	79
					485511.89	4606768.60	Calcium (as CaCO3)	195
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	1540
					485511.89	4606768.60	Lead (Total)	1.75
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	3.03
					485511.89	4606768.60	Sodium	37.9 (Q)
					485511.89	4606768.60	Arsenic (Total)	2.35
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	1.61
					485511.89	4606768.60	Copper (Total)	3.2
					485511.89	4606768.60	Zinc (Total)	10.1
					485511.89	4606768.60	Silica (Molybdate Reactive)	8
					485511.89	4606768.60	Nitrogen, Ammonia	0.2
					485511.89	4606768.60	Phosphorus, Total	0.08
					485511.89	4606768.60	Chemical Oxygen Demand	20.6
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	1.4
					485511.89	4606768.60	pH	8
					485511.89	4606768.60	Solids, Non-filterable Residue	16
					485511.89	4606768.60	Solids (Total) Residue	475
					485511.89	4606768.60	Solids, Filterable Residue	421
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.8
					485511.89	4606768.60	Hardness (as CaCO3)	296
					485511.89	4606768.60	Alkalinity (as CaCO3)	160
					485511.89	4606768.60	Total Organic Carbon	5.1
LMG060-0005	BD-2E	Burns Ditch	3/15/2004	AA21234	485511.89	4606768.60	Sulfate	74
					485511.89	4606768.60	Chloride	56
					485511.89	4606768.60	Calcium (as CaCO3)	190
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	722
					485511.89	4606768.60	Lead (Total)	1.79
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	2.28
					485511.89	4606768.60	Sodium	27.1 (Q)
					485511.89	4606768.60	Arsenic (Total)	< 1.2
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	< 1.2
					485511.89	4606768.60	Copper (Total)	2.41
					485511.89	4606768.60	Zinc (Total)	< 6
					485511.89	4606768.60	Silica (Molybdate Reactive)	6
					485511.89	4606768.60	Nitrogen, Ammonia	0.2
					485511.89	4606768.60	Phosphorus, Total	0.04
					485511.89	4606768.60	Biochemical Oxygen Demand (Total) 5-day	1.5
					485511.89	4606768.60	Chemical Oxygen Demand	15.1
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	1.2
					485511.89	4606768.60	pH	8.3
					485511.89	4606768.60	Solids, Non-filterable Residue	8
					485511.89	4606768.60	Solids (Total) Residue	410
					485511.89	4606768.60	Solids, Filterable Residue	390
					485511.89	4606768.60	Total Organic Carbon	3.6
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.7
					485511.89	4606768.60	Hardness (as CaCO3)	283
					485511.89	4606768.60	Alkalinity (as CaCO3)	169
LMG060-0005	BD-2E	Burns Ditch	4/12/2004	AA21912	485511.89	4606768.60	Sulfate	68
					485511.89	4606768.60	Chloride	52
					485511.89	4606768.60	Calcium (as CaCO3)	193
					485511.89	4606768.60	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					485511.89	4606768.60	Iron (Total)	722
					485511.89	4606768.60	Lead (Total)	1.62
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	2.77
					485511.89	4606768.60	Sodium	25 (Q)
					485511.89	4606768.60	Arsenic (Total)	1.54
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	< 1.2
					485511.89	4606768.60	Copper (Total)	3.04
					485511.89	4606768.60	Zinc (Total)	< 6
					485511.89	4606768.60	Silica (Molybdate Reactive)	6
					485511.89	4606768.60	Nitrogen, Ammonia	0.2 (fDJ)
					485511.89	4606768.60	Phosphorus, Total	0.04
					485511.89	4606768.60	Chemical Oxygen Demand	15.1
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	1.2
					485511.89	4606768.60	pH	8.3
					485511.89	4606768.60	Solids, Non-filterable Residue	7 (DJ)
					485511.89	4606768.60	Solids (Total) Residue	439
					485511.89	4606768.60	Solids, Filterable Residue	393
					485511.89	4606768.60	Total Organic Carbon	3.6
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.6
					485511.89	4606768.60	Hardness (as CaCO3)	267
					485511.89	4606768.60	Alkalinity (as CaCO3)	170
LMG060-0005	BD-2E	Burns Ditch	6/2/2004	AA23045	485511.89	4606768.60	Sulfate	46
					485511.89	4606768.60	Chloride	41
					485511.89	4606768.60	Calcium (as CaCO3)	159
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	2710
					485511.89	4606768.60	Lead (Total)	2.55
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	3.26
					485511.89	4606768.60	Sodium	21.8 (Q)
					485511.89	4606768.60	Arsenic (Total)	2.15
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	2.58
					485511.89	4606768.60	Copper (Total)	3.82
					485511.89	4606768.60	Zinc (Total)	11.9
					485511.89	4606768.60	Silica (Molybdate Reactive)	11
					485511.89	4606768.60	Nitrogen, Ammonia	< 0.1
					485511.89	4606768.60	Phosphorus, Total	0.15
					485511.89	4606768.60	Chemical Oxygen Demand	31.5
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	1.4
					485511.89	4606768.60	pH	7.8
					485511.89	4606768.60	Solids, Non-filterable Residue	50
					485511.89	4606768.60	Solids (Total) Residue	406
					485511.89	4606768.60	Solids, Filterable Residue	328
					485511.89	4606768.60	Total Organic Carbon	8.3
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	1.4
					485511.89	4606768.60	Hardness (as CaCO3)	219
					485511.89	4606768.60	Alkalinity (as CaCO3)	140
LMG060-0005	BD-2E	Burns Ditch	7/7/2004	AA23257	485511.89	4606768.60	Sulfate	57 (fDJ)
					485511.89	4606768.60	Chloride	39
					485511.89	4606768.60	Calcium (as CaCO3)	156
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	571
					485511.89	4606768.60	Lead (Total)	1.09
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	1.62
					485511.89	4606768.60	Sodium	18.8 (Q)
					485511.89	4606768.60	Arsenic (Total)	< 1.2
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	< 1.2
					485511.89	4606768.60	Copper (Total)	2.29
					485511.89	4606768.60	Zinc (Total)	< 6
					485511.89	4606768.60	Silica (Molybdate Reactive)	6
					485511.89	4606768.60	Nitrogen, Ammonia	0.1
					485511.89	4606768.60	Phosphorus, Total	0.06
					485511.89	4606768.60	Biochemical Oxygen Demand (Total) 5-day	< 1
					485511.89	4606768.60	Chemical Oxygen Demand	11.4
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	0.7
					485511.89	4606768.60	pH	8.1
					485511.89	4606768.60	Solids, Non-filterable Residue	10
					485511.89	4606768.60	Solids (Total) Residue	343
					485511.89	4606768.60	Solids, Filterable Residue	312
					485511.89	4606768.60	Total Organic Carbon	3.1
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.5
					485511.89	4606768.60	Hardness (as CaCO3)	224
					485511.89	4606768.60	Alkalinity (as CaCO3)	150
					485511.89	4606768.60	Coliform, E.coli	160

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
LMG060-0005	BD-2E	Burns Ditch	1/5/2004	AA20556	485511.89	4606768.60	Sulfate	73
					485511.89	4606768.60	Chloride	52
					485511.89	4606768.60	Calcium (as CaCO3)	187
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	781
					485511.89	4606768.60	Lead (Total)	1.62
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	2.43
					485511.89	4606768.60	Sodium	26.5 (Q)
					485511.89	4606768.60	Arsenic (Total)	1.99
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	< 1.2
					485511.89	4606768.60	Copper (Total)	3.47
					485511.89	4606768.60	Zinc (Total)	6.79
					485511.89	4606768.60	Nitrogen, Ammonia	0.3
					485511.89	4606768.60	Phosphorus, Total	0.04
					485511.89	4606768.60	Biochemical Oxygen Demand (Total) 5-day	1.2
					485511.89	4606768.60	Chemical Oxygen Demand	12.2
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	1.2
					485511.89	4606768.60	pH	8.3
					485511.89	4606768.60	Solids, Non-filterable Residue	4
					485511.89	4606768.60	Solids (Total) Residue	394
					485511.89	4606768.60	Solids, Filterable Residue	377
					485511.89	4606768.60	Total Organic Carbon	3.9
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.7
					485511.89	4606768.60	Hardness (as CaCO3)	281
					485511.89	4606768.60	Alkalinity (as CaCO3)	155
LMG060-0005	BD-2E	Burns Ditch	5/17/2004	AA22545	485511.89	4606768.60	Sulfate	59
					485511.89	4606768.60	Chloride	54
					485511.89	4606768.60	Calcium (as CaCO3)	175
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	1160
					485511.89	4606768.60	Lead (Total)	1.61
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	2.62
					485511.89	4606768.60	Sodium	26.9 (Q)
					485511.89	4606768.60	Arsenic (Total)	1.91
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	1.22
					485511.89	4606768.60	Copper (Total)	2.68
					485511.89	4606768.60	Zinc (Total)	< 6
					485511.89	4606768.60	Silica (Molybdate Reactive)	8
					485511.89	4606768.60	Nitrogen, Ammonia	0.2
					485511.89	4606768.60	Phosphorus, Total	0.07 (DJ)
					485511.89	4606768.60	Biochemical Oxygen Demand (Total) 5-day	1.8
					485511.89	4606768.60	Chemical Oxygen Demand	20
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	1.1
					485511.89	4606768.60	pH	8
					485511.89	4606768.60	Solids, Non-filterable Residue	14
					485511.89	4606768.60	Solids (Total) Residue	416
					485511.89	4606768.60	Solids, Filterable Residue	408
					485511.89	4606768.60	Total Organic Carbon	5.2
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.8
					485511.89	4606768.60	Hardness (as CaCO3)	258
					485511.89	4606768.60	Alkalinity (as CaCO3)	161
LMG060-0005	BD-2E	Burns Ditch	9/1/2004	AA24185	485511.89	4606768.60	Sulfate	55
					485511.89	4606768.60	Chloride	43
					485511.89	4606768.60	Calcium (as CaCO3)	174
					485511.89	4606768.60	Cyanide (Total)	< 0.005
					485511.89	4606768.60	Iron (Total)	928
					485511.89	4606768.60	Lead (Total)	1.3
					485511.89	4606768.60	Mercury (Total)	< 0.2
					485511.89	4606768.60	Nickel (Total)	2.01
					485511.89	4606768.60	Sodium	22.3 (Q)
					485511.89	4606768.60	Arsenic (Total)	1.95
					485511.89	4606768.60	Cadmium (Total)	< 1
					485511.89	4606768.60	Chromium (Total)	< 1.2
					485511.89	4606768.60	Copper (Total)	2.16
					485511.89	4606768.60	Zinc (Total)	6.37
					485511.89	4606768.60	Silica (Molybdate Reactive)	9.2
					485511.89	4606768.60	Nitrogen, Ammonia	< 0.1
					485511.89	4606768.60	Phosphorus, Total	0.08
					485511.89	4606768.60	Biochemical Oxygen Demand (Total) 5-day	1.2
					485511.89	4606768.60	Chemical Oxygen Demand	26.8
					485511.89	4606768.60	Nitrogen, Nitrate+Nitrite	0.8
					485511.89	4606768.60	pH	8.1
					485511.89	4606768.60	Solids, Non-filterable Residue	15
					485511.89	4606768.60	Solids (Total) Residue	391
					485511.89	4606768.60	Solids, Filterable Residue	359

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					485511.89	4606768.60	Total Organic Carbon	6
					485511.89	4606768.60	Nitrogen (Total) Kjeldahl	0.7 (DJ)
					485511.89	4606768.60	Hardness (as CaCO3)	261
					485511.89	4606768.60	Alkalinity (as CaCO3)	176
LMG060-0007	BD-1	Burns Ditch	2/23/2004	AA20680	485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	79.5 (Q)
					485304.92	4607416.65	Arsenic (Total)	1.8
					485304.92	4607416.65	Barium (Total)	50.7
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	1.33
					485304.92	4607416.65	Copper (Dissolved)	1.54
					485304.92	4607416.65	Copper (Total)	2.68
					485304.92	4607416.65	Zinc (Dissolved)	5.37
					485304.92	4607416.65	Zinc (Total)	11.4
					485304.92	4607416.65	Silica (Molybdate Reactive)	8
					485304.92	4607416.65	Nitrogen, Ammonia	0.4
					485304.92	4607416.65	Phosphorus, Total	0.12
					485304.92	4607416.65	Selenium (Total)	< 2
					485304.92	4607416.65	Chemical Oxygen Demand	22.2
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1.9
					485304.92	4607416.65	pH	7.9
					485304.92	4607416.65	Solids, Non-filterable Residue	17
					485304.92	4607416.65	Solids (Total) Residue	621
					485304.92	4607416.65	Solids, Filterable Residue	573
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	1.3
					485304.92	4607416.65	Hardness (as CaCO3)	336
					485304.92	4607416.65	Alkalinity (as CaCO3)	180
					485304.92	4607416.65	Sulfate	90
					485304.92	4607416.65	Chloride	147
					485304.92	4607416.65	Fluoride	0.4
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	209
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Dissolved)	28
					485304.92	4607416.65	Iron (Total)	1200
					485304.92	4607416.65	Lead (Dissolved)	< 1
					485304.92	4607416.65	Lead (Total)	1.37
					485304.92	4607416.65	Manganese (Dissolved)	122
					485304.92	4607416.65	Manganese (Total)	163
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	2.74
					485304.92	4607416.65	Total Organic Carbon	5.9
LMG060-0007	BD-1	Burns Ditch	3/15/2004	AA21235	485304.92	4607416.65	Sulfate	80
					485304.92	4607416.65	Chloride	89
					485304.92	4607416.65	Fluoride	0.6
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	199
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Total)	725
					485304.92	4607416.65	Lead (Total)	1.5
					485304.92	4607416.65	Manganese (Total)	90
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	2.35
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	44.5 (Q)
					485304.92	4607416.65	Arsenic (Total)	< 1.2
					485304.92	4607416.65	Barium (Total)	40.8
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	< 1.2
					485304.92	4607416.65	Copper (Total)	2.31
					485304.92	4607416.65	Zinc (Total)	< 6
					485304.92	4607416.65	Silica (Molybdate Reactive)	8
					485304.92	4607416.65	Nitrogen, Ammonia	0.2
					485304.92	4607416.65	Phosphorus, Total	0.07
					485304.92	4607416.65	Selenium (Total)	< 2
					485304.92	4607416.65	Biochemical Oxygen Demand (Total) 5-day	1.8
					485304.92	4607416.65	Chemical Oxygen Demand	20.4
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1.8
					485304.92	4607416.65	pH	8.1
					485304.92	4607416.65	Solids, Non-filterable Residue	12
					485304.92	4607416.65	Solids (Total) Residue	488
					485304.92	4607416.65	Solids, Filterable Residue	473
					485304.92	4607416.65	Total Organic Carbon	5.8
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	1.1
					485304.92	4607416.65	Hardness (as CaCO3)	306
					485304.92	4607416.65	Alkalinity (as CaCO3)	171
LMG060-0007	BD-1	Burns Ditch	4/12/2004	AA21913	485304.92	4607416.65	Sulfate	85
					485304.92	4607416.65	Chloride	74
					485304.92	4607416.65	Fluoride	0.6

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	205
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Dissolved)	14.1
					485304.92	4607416.65	Iron (Total)	818
					485304.92	4607416.65	Lead (Dissolved)	< 1
					485304.92	4607416.65	Lead (Total)	1.62
					485304.92	4607416.65	Manganese (Dissolved)	41.5
					485304.92	4607416.65	Manganese (Total)	93.4
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	2.82
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	37.5 (Q)
					485304.92	4607416.65	Arsenic (Total)	1.7
					485304.92	4607416.65	Barium (Total)	44.3
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	< 1.2
					485304.92	4607416.65	Copper (Dissolved)	1.57
					485304.92	4607416.65	Copper (Total)	2.83
					485304.92	4607416.65	Zinc (Dissolved)	< 3
					485304.92	4607416.65	Zinc (Total)	6.81
					485304.92	4607416.65	Silica (Molybdate Reactive)	5
					485304.92	4607416.65	Nitrogen, Ammonia	0.2 (fDJ)
					485304.92	4607416.65	Phosphorus, Total	0.06
					485304.92	4607416.65	Selenium (Total)	< 2
					485304.92	4607416.65	Chemical Oxygen Demand	21.2
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1.2
					485304.92	4607416.65	pH	8.3
					485304.92	4607416.65	Solids, Non-filterable Residue	13 (DJ)
					485304.92	4607416.65	Solids (Total) Residue	532
					485304.92	4607416.65	Solids, Filterable Residue	472
					485304.92	4607416.65	Total Organic Carbon	5.5
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	0.9
					485304.92	4607416.65	Hardness (as CaCO3)	294
					485304.92	4607416.65	Alkalinity (as CaCO3)	184
LMG060-0007	BD-1	Burns Ditch	6/2/2004	AA23046	485304.92	4607416.65	Sulfate	50
					485304.92	4607416.65	Chloride	44
					485304.92	4607416.65	Fluoride	0.3
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	155
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Dissolved)	55.6
					485304.92	4607416.65	Iron (Total)	2580
					485304.92	4607416.65	Lead (Dissolved)	< 1
					485304.92	4607416.65	Lead (Total)	2.56
					485304.92	4607416.65	Manganese (Dissolved)	34.8
					485304.92	4607416.65	Manganese (Total)	116
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	3.15
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	24.7 (Q)
					485304.92	4607416.65	Arsenic (Total)	2.87
					485304.92	4607416.65	Barium (Total)	50.3
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	2.39
					485304.92	4607416.65	Copper (Dissolved)	2.66
					485304.92	4607416.65	Copper (Total)	4.33
					485304.92	4607416.65	Zinc (Dissolved)	3.91
					485304.92	4607416.65	Zinc (Total)	12.4
					485304.92	4607416.65	Silica (Molybdate Reactive)	12
					485304.92	4607416.65	Nitrogen, Ammonia	< 0.1
					485304.92	4607416.65	Phosphorus, Total	0.16
					485304.92	4607416.65	Selenium (Total)	2.69
					485304.92	4607416.65	Chemical Oxygen Demand	29.1
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1.5
					485304.92	4607416.65	pH	7.8
					485304.92	4607416.65	Solids, Non-filterable Residue	49
					485304.92	4607416.65	Solids (Total) Residue	412
					485304.92	4607416.65	Solids, Filterable Residue	332
					485304.92	4607416.65	Total Organic Carbon	8.7
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	1.3
					485304.92	4607416.65	Hardness (as CaCO3)	230
					485304.92	4607416.65	Alkalinity (as CaCO3)	141
LMG060-0007	BD-1	Burns Ditch	7/7/2004	AA23259	485304.92	4607416.65	Sulfate	71 (fDJ)
					485304.92	4607416.65	Chloride	73
					485304.92	4607416.65	Fluoride	0.5
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	186
					485304.92	4607416.65	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					485304.92	4607416.65	Iron (Dissolved)	17.4
					485304.92	4607416.65	Iron (Total)	585
					485304.92	4607416.65	Lead (Dissolved)	< 1
					485304.92	4607416.65	Lead (Total)	1.23
					485304.92	4607416.65	Manganese (Dissolved)	41.3
					485304.92	4607416.65	Manganese (Total)	110
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	2.23
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	40.5 (Q)
					485304.92	4607416.65	Arsenic (Total)	1.89
					485304.92	4607416.65	Barium (Total)	41.8
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	< 1.2
					485304.92	4607416.65	Copper (Dissolved)	1.54
					485304.92	4607416.65	Copper (Total)	2.48
					485304.92	4607416.65	Zinc (Dissolved)	< 3
					485304.92	4607416.65	Zinc (Total)	< 6
					485304.92	4607416.65	Silica (Molybdate Reactive)	8
					485304.92	4607416.65	Nitrogen, Ammonia	< 0.1
					485304.92	4607416.65	Phosphorus, Total	0.1
					485304.92	4607416.65	Biochemical Oxygen Demand (Total) 5-day	1.6
					485304.92	4607416.65	Chemical Oxygen Demand	20.8
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1
					485304.92	4607416.65	pH	8
					485304.92	4607416.65	Solids, Non-filterable Residue	17
					485304.92	4607416.65	Solids (Total) Residue	466
					485304.92	4607416.65	Solids, Filterable Residue	422
					485304.92	4607416.65	Total Organic Carbon	5.9
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	1
					485304.92	4607416.65	Hardness (as CaCO3)	276
					485304.92	4607416.65	Alkalinity (as CaCO3)	167
LMG060-0007	BD-1	Burns Ditch	1/5/2004	AA20555	485304.92	4607416.65	Sulfate	91
					485304.92	4607416.65	Chloride	79
					485304.92	4607416.65	Fluoride	0.6
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	220
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Dissolved)	< 8
					485304.92	4607416.65	Iron (Total)	605
					485304.92	4607416.65	Lead (Dissolved)	< 1
					485304.92	4607416.65	Lead (Total)	1.1
					485304.92	4607416.65	Manganese (Dissolved)	65.5
					485304.92	4607416.65	Manganese (Total)	90.7
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	2.26
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	43.1 (Q)
					485304.92	4607416.65	Arsenic (Total)	< 1.2
					485304.92	4607416.65	Barium (Total)	46
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	< 1.2
					485304.92	4607416.65	Copper (Dissolved)	1.5
					485304.92	4607416.65	Copper (Total)	2.18
					485304.92	4607416.65	Zinc (Dissolved)	5.66
					485304.92	4607416.65	Zinc (Total)	< 6
					485304.92	4607416.65	Nitrogen, Ammonia	0.3
					485304.92	4607416.65	Phosphorus, Total	0.05
					485304.92	4607416.65	Selenium (Total)	< 2
					485304.92	4607416.65	Biochemical Oxygen Demand (Total) 5-day	1.1
					485304.92	4607416.65	Chemical Oxygen Demand	16.3
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1.6
					485304.92	4607416.65	pH	8.2
					485304.92	4607416.65	Solids, Non-filterable Residue	7
					485304.92	4607416.65	Solids (Total) Residue	503
					485304.92	4607416.65	Solids, Filterable Residue	476
					485304.92	4607416.65	Total Organic Carbon	5.2
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	0.8
					485304.92	4607416.65	Hardness (as CaCO3)	333
					485304.92	4607416.65	Alkalinity (as CaCO3)	178
LMG060-0007	BD-1	Burns Ditch	5/17/2004	AA22546	485304.92	4607416.65	Sulfate	69
					485304.92	4607416.65	Chloride	82
					485304.92	4607416.65	Fluoride	0.6
					485304.92	4607416.65	Chromium, Hexavalent	< 10
					485304.92	4607416.65	Calcium (as CaCO3)	182
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Dissolved)	43
					485304.92	4607416.65	Iron (Total)	1480
					485304.92	4607416.65	Lead (Dissolved)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					485304.92	4607416.65	Lead (Total)	2.46
					485304.92	4607416.65	Manganese (Dissolved)	56.1
					485304.92	4607416.65	Manganese (Total)	133
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	3.22
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	43.1 (Q)
					485304.92	4607416.65	Arsenic (Total)	2.35
					485304.92	4607416.65	Barium (Total)	45.9
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	1.81
					485304.92	4607416.65	Copper (Dissolved)	1.46
					485304.92	4607416.65	Copper (Total)	3.32
					485304.92	4607416.65	Zinc (Dissolved)	3.07
					485304.92	4607416.65	Zinc (Total)	9.62
					485304.92	4607416.65	Silica (Molybdate Reactive)	8
					485304.92	4607416.65	Nitrogen, Ammonia	0.2
					485304.92	4607416.65	Phosphorus, Total	0.1 (DJ)
					485304.92	4607416.65	Selenium (Total)	< 2.2
					485304.92	4607416.65	Biochemical Oxygen Demand (Total) 5-day	2.3
					485304.92	4607416.65	Chemical Oxygen Demand	26.5
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	1.4
					485304.92	4607416.65	pH	7.9
					485304.92	4607416.65	Solids, Non-filterable Residue	32
					485304.92	4607416.65	Solids (Total) Residue	521
					485304.92	4607416.65	Solids, Filterable Residue	459
					485304.92	4607416.65	Total Organic Carbon	7.3
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	1.1
					485304.92	4607416.65	Hardness (as CaCO3)	286
					485304.92	4607416.65	Alkalinity (as CaCO3)	167
LMG060-0007	BD-1	Burns Ditch	9/1/2004	AA24186	485304.92	4607416.65	Sulfate	59
					485304.92	4607416.65	Chloride	52
					485304.92	4607416.65	Fluoride	0.4
					485304.92	4607416.65	Calcium (as CaCO3)	168
					485304.92	4607416.65	Cyanide (Total)	< 0.005
					485304.92	4607416.65	Iron (Dissolved)	72.1
					485304.92	4607416.65	Iron (Total)	1060
					485304.92	4607416.65	Lead (Dissolved)	< 1
					485304.92	4607416.65	Lead (Total)	1.65
					485304.92	4607416.65	Manganese (Dissolved)	50.6
					485304.92	4607416.65	Manganese (Total)	98
					485304.92	4607416.65	Mercury (Total)	< 0.2
					485304.92	4607416.65	Nickel (Total)	2.35
					485304.92	4607416.65	Silver (Total)	< 1
					485304.92	4607416.65	Sodium	29.3 (Q)
					485304.92	4607416.65	Arsenic (Total)	2.13
					485304.92	4607416.65	Barium (Total)	44
					485304.92	4607416.65	Cadmium (Total)	< 1
					485304.92	4607416.65	Chromium (Total)	< 1.2
					485304.92	4607416.65	Copper (Dissolved)	1.65
					485304.92	4607416.65	Copper (Total)	2.73
					485304.92	4607416.65	Zinc (Dissolved)	< 3
					485304.92	4607416.65	Zinc (Total)	7.65
					485304.92	4607416.65	Silica (Molybdate Reactive)	11
					485304.92	4607416.65	Nitrogen, Ammonia	< 0.1
					485304.92	4607416.65	Phosphorus, Total	0.13
					485304.92	4607416.65	Selenium (Total)	< 2.2
					485304.92	4607416.65	Biochemical Oxygen Demand (Total) 5-day	1.2
					485304.92	4607416.65	Chemical Oxygen Demand	30.5
					485304.92	4607416.65	Nitrogen, Nitrate+Nitrite	0.8
					485304.92	4607416.65	pH	8
					485304.92	4607416.65	Solids, Non-filterable Residue	24
					485304.92	4607416.65	Solids (Total) Residue	421
					485304.92	4607416.65	Solids, Filterable Residue	365
					485304.92	4607416.65	Total Organic Carbon	7.2
					485304.92	4607416.65	Nitrogen (Total) Kjeldahl	0.9 (DJ)
					485304.92	4607416.65	Hardness (as CaCO3)	253
					485304.92	4607416.65	Alkalinity (as CaCO3)	164
LMG060-0008	LCR-39	E Br Little Calumet River	2/23/2004	AA20674	489493.37	4607255.11	Sulfate	75
					489493.37	4607255.11	Chloride	94
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	1310
					489493.37	4607255.11	Lead (Total)	< 1
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	2.22
					489493.37	4607255.11	Arsenic (Total)	2.03
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	1.48
					489493.37	4607255.11	Copper (Total)	2.38

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1
					489493.37	4607255.11	Phosphorus, Total	0.12
					489493.37	4607255.11	Chemical Oxygen Demand	23.4
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	1.9
					489493.37	4607255.11	pH	7.8
					489493.37	4607255.11	Solids, Non-filterable Residue	21
					489493.37	4607255.11	Solids (Total) Residue	531
					489493.37	4607255.11	Solids, Filterable Residue	502
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	0.9
					489493.37	4607255.11	Hardness (as CaCO3)	310
					489493.37	4607255.11	Alkalinity (as CaCO3)	168
					489493.37	4607255.11	Total Organic Carbon	6.9
LMG060-0008	LCR-39	E Br Little Calumet River	3/15/2004	AA21229	489493.37	4607255.11	Sulfate	80
					489493.37	4607255.11	Chloride	60
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	622
					489493.37	4607255.11	Lead (Total)	< 1
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	1.64
					489493.37	4607255.11	Arsenic (Total)	1.87
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	< 1.2
					489493.37	4607255.11	Copper (Total)	1.43
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1
					489493.37	4607255.11	Phosphorus, Total	0.03
					489493.37	4607255.11	Biochemical Oxygen Demand (Total) 5-day	< 1
					489493.37	4607255.11	Chemical Oxygen Demand	11.4
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	0.7
					489493.37	4607255.11	pH	8.2
					489493.37	4607255.11	Solids, Non-filterable Residue	< 4
					489493.37	4607255.11	Solids (Total) Residue	497
					489493.37	4607255.11	Solids, Filterable Residue	474
					489493.37	4607255.11	Total Organic Carbon	4
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	0.4
					489493.37	4607255.11	Hardness (as CaCO3)	371
					489493.37	4607255.11	Alkalinity (as CaCO3)	229
LMG060-0008	LCR-39	E Br Little Calumet River	4/12/2004	AA21907	489493.37	4607255.11	Sulfate	81
					489493.37	4607255.11	Chloride	57
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	663
					489493.37	4607255.11	Lead (Total)	< 1
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	2.04
					489493.37	4607255.11	Arsenic (Total)	1.49
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	< 1.2
					489493.37	4607255.11	Copper (Total)	1.43
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1 (fDJ)
					489493.37	4607255.11	Phosphorus, Total	0.03
					489493.37	4607255.11	Chemical Oxygen Demand	12.2
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	1
					489493.37	4607255.11	pH	8.2
					489493.37	4607255.11	Solids, Non-filterable Residue	5 (DJ)
					489493.37	4607255.11	Solids (Total) Residue	515
					489493.37	4607255.11	Solids, Filterable Residue	481
					489493.37	4607255.11	Total Organic Carbon	4.2
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	0.4
					489493.37	4607255.11	Hardness (as CaCO3)	345
					489493.37	4607255.11	Alkalinity (as CaCO3)	250
LMG060-0008	LCR-39	E Br Little Calumet River	6/2/2004	AA23040	489493.37	4607255.11	Sulfate	38
					489493.37	4607255.11	Chloride	37
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	2270
					489493.37	4607255.11	Lead (Total)	1.96
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	2.99
					489493.37	4607255.11	Arsenic (Total)	3
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	2.62
					489493.37	4607255.11	Copper (Total)	3.38
					489493.37	4607255.11	Zinc (Total)	10.5
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1
					489493.37	4607255.11	Phosphorus, Total	0.14
					489493.37	4607255.11	Chemical Oxygen Demand	33.9
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	1.2
					489493.37	4607255.11	pH	7.7

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					489493.37	4607255.11	Solids, Non-filterable Residue	33
					489493.37	4607255.11	Solids (Total) Residue	367
					489493.37	4607255.11	Solids, Filterable Residue	313
					489493.37	4607255.11	Total Organic Carbon	10.7
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	1.4
					489493.37	4607255.11	Hardness (as CaCO3)	199
					489493.37	4607255.11	Alkalinity (as CaCO3)	132
LMG060-0008	LCR-39	E Br Little Calumet River	7/6/2004	AA23253	489493.37	4607255.11	Sulfate	58 (fDJ)
					489493.37	4607255.11	Chloride	49
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	1340
					489493.37	4607255.11	Lead (Total)	1.04
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	2.02
					489493.37	4607255.11	Arsenic (Total)	1.4
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	< 1.2
					489493.37	4607255.11	Copper (Total)	1.93
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1
					489493.37	4607255.11	Phosphorus, Total	0.12
					489493.37	4607255.11	Biochemical Oxygen Demand (Total) 5-day	< 1
					489493.37	4607255.11	Chemical Oxygen Demand	15.1
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	1.6
					489493.37	4607255.11	pH	8.1
					489493.37	4607255.11	Solids, Non-filterable Residue	23
					489493.37	4607255.11	Solids (Total) Residue	491
					489493.37	4607255.11	Solids, Filterable Residue	438
					489493.37	4607255.11	Total Organic Carbon	4.3
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	0.8
					489493.37	4607255.11	Hardness (as CaCO3)	349
					489493.37	4607255.11	Alkalinity (as CaCO3)	234
LMG060-0008	LCR-39	E Br Little Calumet River	1/5/2004	AA20560	489493.37	4607255.11	Sulfate	88
					489493.37	4607255.11	Chloride	78
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	552
					489493.37	4607255.11	Lead (Total)	< 1
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	1.58
					489493.37	4607255.11	Arsenic (Total)	< 1.2
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	< 1.2
					489493.37	4607255.11	Copper (Total)	1.19
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1
					489493.37	4607255.11	Phosphorus, Total	0.03
					489493.37	4607255.11	Biochemical Oxygen Demand (Total) 5-day	< 1
					489493.37	4607255.11	Chemical Oxygen Demand	11
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	1.3
					489493.37	4607255.11	pH	8.2
					489493.37	4607255.11	Solids, Non-filterable Residue	4
					489493.37	4607255.11	Solids (Total) Residue	546
					489493.37	4607255.11	Solids, Filterable Residue	518
					489493.37	4607255.11	Total Organic Carbon	4.2
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	0.4
					489493.37	4607255.11	Hardness (as CaCO3)	372
					489493.37	4607255.11	Alkalinity (as CaCO3)	222
LMG060-0008	LCR-39	E Br Little Calumet River	5/17/2004	AA22541	489493.37	4607255.11	Sulfate	69
					489493.37	4607255.11	Chloride	71
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	1130
					489493.37	4607255.11	Lead (Total)	< 1
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	2.48
					489493.37	4607255.11	Arsenic (Total)	2.27
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	1.21
					489493.37	4607255.11	Copper (Total)	2.21
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	0.1
					489493.37	4607255.11	Phosphorus, Total	0.1 (DJ)
					489493.37	4607255.11	Biochemical Oxygen Demand (Total) 5-day	1.5
					489493.37	4607255.11	Chemical Oxygen Demand	28.2
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	1
					489493.37	4607255.11	pH	7.9
					489493.37	4607255.11	Solids, Non-filterable Residue	14
					489493.37	4607255.11	Solids (Total) Residue	568
					489493.37	4607255.11	Solids, Filterable Residue	511
					489493.37	4607255.11	Total Organic Carbon	8.6

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	1
					489493.37	4607255.11	Hardness (as CaCO3)	336
					489493.37	4607255.11	Alkalinity (as CaCO3)	220
LMG060-0008	LCR-39	E Br Little Calumet River	9/1/2004	AA24181	489493.37	4607255.11	Sulfate	60
					489493.37	4607255.11	Chloride	45
					489493.37	4607255.11	Cyanide (Total)	< 0.005
					489493.37	4607255.11	Iron (Total)	1330
					489493.37	4607255.11	Lead (Total)	< 1
					489493.37	4607255.11	Mercury (Total)	< 0.2
					489493.37	4607255.11	Nickel (Total)	2.33
					489493.37	4607255.11	Arsenic (Total)	1.58
					489493.37	4607255.11	Cadmium (Total)	< 1
					489493.37	4607255.11	Chromium (Total)	< 1.2
					489493.37	4607255.11	Copper (Total)	2.09
					489493.37	4607255.11	Zinc (Total)	< 6
					489493.37	4607255.11	Nitrogen, Ammonia	< 0.1
					489493.37	4607255.11	Phosphorus, Total	0.09
					489493.37	4607255.11	Biochemical Oxygen Demand (Total) 5-day	< 1
					489493.37	4607255.11	Chemical Oxygen Demand	28.8
					489493.37	4607255.11	Nitrogen, Nitrate+Nitrite	0.7
					489493.37	4607255.11	pH	8
					489493.37	4607255.11	Solids, Non-filterable Residue	21
					489493.37	4607255.11	Solids (Total) Residue	475
					489493.37	4607255.11	Solids, Filterable Residue	431
					489493.37	4607255.11	Total Organic Carbon	7.6
					489493.37	4607255.11	Nitrogen (Total) Kjeldahl	0.7 (DJ)
					489493.37	4607255.11	Hardness (as CaCO3)	327
					489493.37	4607255.11	Alkalinity (as CaCO3)	238
LMG070-0004	LM-M	Lake Michigan	2/24/2004	AA20671	508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Hexachlorobenzene	< 0.16
					508432.99	4619125.63	Terbufos	< 0.14
					508432.99	4619125.63	Sulfate	22
					508432.99	4619125.63	Alachlor	< 0.1
					508432.99	4619125.63	Chloride	12
					508432.99	4619125.63	Fluoride	< 0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Atrazine	< 0.28
					508432.99	4619125.63	Oxychlordane	< 0.2
					508432.99	4619125.63	Chlorpyrifos	< 0.14
					508432.99	4619125.63	Acetochlor	< 0.12
					508432.99	4619125.63	trans-Nonachlor	< 0.2
					508432.99	4619125.63	Pendimethalin	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	110
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2
					508432.99	4619125.63	Nonachlor, cis-	< 0.2
					508432.99	4619125.63	Chlordane, Gamma-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	BHC, Gamma- (Lindane)	< 0.08
					508432.99	4619125.63	Endrin	< 0.44
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	73.5
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	87.3
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	< 1
					508432.99	4619125.63	Manganese (Total)	3.83
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	6.77 (Q)
					508432.99	4619125.63	Arsenic (Total)	1.54
					508432.99	4619125.63	Barium (Total)	23.9
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	< 1
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Heptachlor	< 0.28
					508432.99	4619125.63	Silica (Molybdate Reactive)	2
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Hexachlorocyclopentadiene	< 0.32
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Selenium (Total)	< 2
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Pentachlorophenol	< 4.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508432.99	4619125.63	Chemical Oxygen Demand	5.7
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.3
					508432.99	4619125.63	pH	8
					508432.99	4619125.63	Solids, Non-filterable Residue	6
					508432.99	4619125.63	Solids (Total) Residue	184
					508432.99	4619125.63	Solids, Filterable Residue	173
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.1
					508432.99	4619125.63	Hardness (as CaCO3)	142
					508432.99	4619125.63	Alkalinity (as CaCO3)	112
					508432.99	4619125.63	Total Organic Carbon	1.9
LMG070-0004	LM-M	Lake Michigan	3/16/2004	AA21226	508432.99	4619125.63	Desisopropylatrazine	< 2
					508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Hexachlorobenzene	< 0.16
					508432.99	4619125.63	Sulfate	27
					508432.99	4619125.63	Chloride	20
					508432.99	4619125.63	Fluoride	0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Oxychlordane	< 0.2
					508432.99	4619125.63	Chlorpyrifos	< 0.14 (QJ)
					508432.99	4619125.63	trans-Nonachlor	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	104
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Benzo[a]pyrene	< 0.12
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	BHC, Gamma- (Lindane)	< 0.08
					508432.99	4619125.63	Aluminum (Total)	63.1
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	78.6
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	< 1
					508432.99	4619125.63	Manganese (Total)	4.44
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	10.9 (Q)
					508432.99	4619125.63	Arsenic (Total)	1.54
					508432.99	4619125.63	Barium (Total)	25.4
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	1.15
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Silica (Molybdate Reactive)	2
					508432.99	4619125.63	Heptachlor	< 0.28
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Hexachlorocyclopentadiene	< 0.32
					508432.99	4619125.63	Selenium (Total)	< 2
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					508432.99	4619125.63	Chemical Oxygen Demand	< 5
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.5
					508432.99	4619125.63	pH	8.2
					508432.99	4619125.63	Solids, Non-filterable Residue	4
					508432.99	4619125.63	Solids (Total) Residue	204
					508432.99	4619125.63	Solids, Filterable Residue	195
					508432.99	4619125.63	Total Organic Carbon	1.8
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.2
					508432.99	4619125.63	Hardness (as CaCO3)	149
					508432.99	4619125.63	Alkalinity (as CaCO3)	112
					508432.99	4619125.63	Coliform, E.coli	< 1
LMG070-0004	LM-M	Lake Michigan	4/13/2004	AA21904	508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Di(2-ethylhexyl)adipate	< 0.42
					508432.99	4619125.63	Di(2-ethylhexyl)phthalate	< 0.8
					508432.99	4619125.63	Hexachlorobenzene	< 0.16
					508432.99	4619125.63	Sulfate	29
					508432.99	4619125.63	Alachlor	< 0.1
					508432.99	4619125.63	Chloride	15
					508432.99	4619125.63	Fluoride	< 0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Atrazine	< 0.28
					508432.99	4619125.63	Chlorpyrifos	< 0.14 (QJ)
					508432.99	4619125.63	Acetochlor	< 0.12
					508432.99	4619125.63	Pendimethalin	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	116

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Benzo[a]pyrene	< 0.12
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2
					508432.99	4619125.63	Nonachlor, cis-	< 0.2
					508432.99	4619125.63	Chlordane, Gamma-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	BHC, Gamma- (Lindane)	< 0.08
					508432.99	4619125.63	Endrin	< 0.44 (QJ)
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	404
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	612
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	< 1
					508432.99	4619125.63	Manganese (Total)	24.7
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	8.24 (Q)
					508432.99	4619125.63	Arsenic (Total)	1.29
					508432.99	4619125.63	Barium (Total)	29.8
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	1.46
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	1.47
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Silica (Molybdate Reactive)	2.3
					508432.99	4619125.63	Heptachlor	< 0.28
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1 (fDJ)
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Selenium (Total)	< 2
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Chemical Oxygen Demand	9.8
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.5
					508432.99	4619125.63	pH	8.2
					508432.99	4619125.63	Solids, Non-filterable Residue	39 (DJ)
					508432.99	4619125.63	Solids (Total) Residue	248
					508432.99	4619125.63	Solids, Filterable Residue	203
					508432.99	4619125.63	Total Organic Carbon	2.2
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.3
					508432.99	4619125.63	Hardness (as CaCO3)	120
					508432.99	4619125.63	Alkalinity (as CaCO3)	119
					508432.99	4619125.63	Coliform, E.coli	< 1
LMG070-0004	LM-M	Lake Michigan	6/1/2004	AA23037	508432.99	4619125.63	Desisopropylatrazine	< 2
					508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Di(2-ethylhexyl)adipate	< 4
					508432.99	4619125.63	Di(2-ethylhexyl)phthalate	< 1.14
					508432.99	4619125.63	Hexachlorobenzene	< 0.16
					508432.99	4619125.63	Sulfate	24
					508432.99	4619125.63	Alachlor	< 0.1
					508432.99	4619125.63	Chloride	13
					508432.99	4619125.63	Fluoride	0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Atrazine	< 0.28
					508432.99	4619125.63	Oxychlordane	< 0.2 (QJ)
					508432.99	4619125.63	Chlorpyrifos	< 0.14
					508432.99	4619125.63	Acetochlor	< 0.12
					508432.99	4619125.63	trans-Nonachlor	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	90
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2
					508432.99	4619125.63	Nonachlor, cis-	< 0.2
					508432.99	4619125.63	Chlordane, Gamma-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	Endrin	< 0.44 (QJ)
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	< 50
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	32.6
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	1.54
					508432.99	4619125.63	Manganese (Total)	3.2
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	7.13 (Q)
					508432.99	4619125.63	Arsenic (Total)	1.27
					508432.99	4619125.63	Barium (Total)	20.6
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	< 1
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Silica (Molybdate Reactive)	1.7
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Selenium (Total)	< 2.2
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Pentachlorophenol	< 4.2
					508432.99	4619125.63	Chemical Oxygen Demand	< 5
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.3
					508432.99	4619125.63	pH	8.1
					508432.99	4619125.63	Solids, Non-filterable Residue	< 4
					508432.99	4619125.63	Solids (Total) Residue	179
					508432.99	4619125.63	Solids, Filterable Residue	164
					508432.99	4619125.63	Total Organic Carbon	1.7
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.2
					508432.99	4619125.63	Hardness (as CaCO3)	129
					508432.99	4619125.63	Alkalinity (as CaCO3)	104
LMG070-0004	LM-M	Lake Michigan	7/6/2004	AA23250	508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Di(2-ethylhexyl)adipate	< 4 (QJ)
					508432.99	4619125.63	Di(2-ethylhexyl)phthalate	< 1.14
					508432.99	4619125.63	Hexachlorobenzene	< 0.16 (QJ)
					508432.99	4619125.63	Simazine	< 0.36 (QJ)
					508432.99	4619125.63	Terbufos	< 0.14
					508432.99	4619125.63	Sulfate	22 (fDJ)
					508432.99	4619125.63	Alachlor	< 0.1 (QJ)
					508432.99	4619125.63	Chloride	14
					508432.99	4619125.63	Fluoride	0.2
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Atrazine	< 0.28
					508432.99	4619125.63	Oxychlordane	< 0.2 (QJ)
					508432.99	4619125.63	Chlorpyrifos	< 0.14 (QJ)
					508432.99	4619125.63	Acetochlor	< 0.12 (QJ)
					508432.99	4619125.63	Pendimethalin	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	94
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	BHC, Gamma- (Lindane)	< 0.08
					508432.99	4619125.63	Desethylatrazine	< 2
					508432.99	4619125.63	Endrin	< 0.44
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	70.4
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	64.5
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	< 1
					508432.99	4619125.63	Manganese (Total)	4.51
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	7.32 (Q)
					508432.99	4619125.63	Arsenic (Total)	< 1.2
					508432.99	4619125.63	Barium (Total)	21.6
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	< 1
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Silica (Molybdate Reactive)	1
					508432.99	4619125.63	Heptachlor	< 0.28 (QJ)
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Pentachlorophenol	< 4.2
					508432.99	4619125.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					508432.99	4619125.63	Chemical Oxygen Demand	5.3
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.3

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508432.99	4619125.63	pH	8
					508432.99	4619125.63	Solids, Non-filterable Residue	< 4
					508432.99	4619125.63	Solids (Total) Residue	182
					508432.99	4619125.63	Solids, Filterable Residue	171
					508432.99	4619125.63	Total Organic Carbon	1.8
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.2
					508432.99	4619125.63	Hardness (as CaCO3)	127
					508432.99	4619125.63	Alkalinity (as CaCO3)	108
LMG070-0004	LM-M	Lake Michigan	1/6/2004	AA20563	508432.99	4619125.63	Sulfate	25
					508432.99	4619125.63	Alachlor	< 0.1
					508432.99	4619125.63	Chloride	14
					508432.99	4619125.63	Fluoride	0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Oxychlordane	< 0.2
					508432.99	4619125.63	Acetochlor	< 0.12
					508432.99	4619125.63	Calcium (as CaCO3)	101
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	BHC, Gamma- (Lindane)	< 0.08
					508432.99	4619125.63	Endrin	< 0.44 (QJ)
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	133
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	160
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	2.33
					508432.99	4619125.63	Manganese (Total)	7.14
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	7.78 (Q)
					508432.99	4619125.63	Arsenic (Total)	1.33
					508432.99	4619125.63	Barium (Total)	27
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	< 1
					508432.99	4619125.63	Zinc (Dissolved)	3.2
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Selenium (Total)	< 2
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					508432.99	4619125.63	Chemical Oxygen Demand	8.2
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.3
					508432.99	4619125.63	pH	7.8
					508432.99	4619125.63	Solids, Non-filterable Residue	5
					508432.99	4619125.63	Solids (Total) Residue	184
					508432.99	4619125.63	Solids, Filterable Residue	169
					508432.99	4619125.63	Total Organic Carbon	2.1
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	< 0.1
					508432.99	4619125.63	Hardness (as CaCO3)	136
					508432.99	4619125.63	Alkalinity (as CaCO3)	111
LMG070-0004	LM-M	Lake Michigan	5/18/2004	AA22538	508432.99	4619125.63	Desisopropylatrazine	< 2
					508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Di(2-ethylhexyl)adipate	< 4 (QJ)
					508432.99	4619125.63	Di(2-ethylhexyl)phthalate	< 1.14
					508432.99	4619125.63	Hexachlorobenzene	< 0.16
					508432.99	4619125.63	Terbufos	< 0.14
					508432.99	4619125.63	Sulfate	24
					508432.99	4619125.63	Alachlor	< 0.1 (QJ)
					508432.99	4619125.63	Chloride	14
					508432.99	4619125.63	Fluoride	< 0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10
					508432.99	4619125.63	Atrazine	< 0.28
					508432.99	4619125.63	Cyanazine	< 0.4
					508432.99	4619125.63	Oxychlordane	< 0.2 (QJ)
					508432.99	4619125.63	Acetochlor	< 0.12
					508432.99	4619125.63	trans-Nonachlor	< 0.2
					508432.99	4619125.63	Pendimethalin	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	94
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2 (QJ)
					508432.99	4619125.63	Nonachlor, cis-	< 0.2 (QJ)
					508432.99	4619125.63	Chlordane, Gamma-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12 (QJ)
					508432.99	4619125.63	Cyanide (Total)	< 0.005

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508432.99	4619125.63	BHC, Gamma- (Lindane)	< 0.08
					508432.99	4619125.63	Endrin	< 0.44 (QJ)
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	< 50
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	30.7
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	< 1
					508432.99	4619125.63	Manganese (Total)	2.61
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	7.05 (Q)
					508432.99	4619125.63	Arsenic (Total)	1.61
					508432.99	4619125.63	Barium (Total)	22.7
					508432.99	4619125.63	Cadmium (Total)	< 1
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	< 1
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Silica (Molybdate Reactive)	2
					508432.99	4619125.63	Heptachlor	< 0.28
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Phosphorus, Total	< 0.03 (DJ)
					508432.99	4619125.63	Selenium (Total)	< 2.2
					508432.99	4619125.63	Clomazone	< 0.1 (QJ)
					508432.99	4619125.63	Pentachlorophenol	< 4.2
					508432.99	4619125.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					508432.99	4619125.63	Chemical Oxygen Demand	5.3
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.3
					508432.99	4619125.63	pH	7.9
					508432.99	4619125.63	Solids, Non-filterable Residue	< 4
					508432.99	4619125.63	Solids (Total) Residue	184
					508432.99	4619125.63	Solids, Filterable Residue	184
					508432.99	4619125.63	Total Organic Carbon	1.7
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.1
					508432.99	4619125.63	Hardness (as CaCO3)	124
					508432.99	4619125.63	Alkalinity (as CaCO3)	104
					508432.99	4619125.63	Coliform, E.coli	< 1
LMG070-0004	LM-M	Lake Michigan	9/2/2004	AA24178	508432.99	4619125.63	Heptachlor Epoxide	< 0.16
					508432.99	4619125.63	Di(2-ethylhexyl)adipate	< 4 (QJ)
					508432.99	4619125.63	Hexachlorobenzene	< 0.16
					508432.99	4619125.63	Terbufos	< 0.14
					508432.99	4619125.63	Sulfate	21
					508432.99	4619125.63	Alachlor	< 0.1
					508432.99	4619125.63	Chloride	13
					508432.99	4619125.63	Fluoride	0.1
					508432.99	4619125.63	Chromium, Hexavalent	< 10 (HJ)
					508432.99	4619125.63	Cyanazine	< 0.4
					508432.99	4619125.63	Oxychlordane	< 0.2
					508432.99	4619125.63	Chlorpyrifos	< 0.14 (QJ)
					508432.99	4619125.63	Acetochlor	< 0.12 (QJ)
					508432.99	4619125.63	trans-Nonachlor	< 0.2
					508432.99	4619125.63	Pendimethalin	< 0.2
					508432.99	4619125.63	Calcium (as CaCO3)	98
					508432.99	4619125.63	4,4'-DDT	< 0.2
					508432.99	4619125.63	Chlordane, Alpha-	< 0.2
					508432.99	4619125.63	Nonachlor, cis-	< 0.2
					508432.99	4619125.63	Chlordane, Gamma-	< 0.2
					508432.99	4619125.63	Metolachlor	< 0.12
					508432.99	4619125.63	Cyanide (Total)	< 0.005
					508432.99	4619125.63	Endrin	< 0.44 (QJ)
					508432.99	4619125.63	Methoxychlor	< 0.36
					508432.99	4619125.63	Aluminum (Total)	< 50
					508432.99	4619125.63	Iron (Dissolved)	< 8
					508432.99	4619125.63	Iron (Total)	23.1
					508432.99	4619125.63	Lead (Dissolved)	< 1
					508432.99	4619125.63	Lead (Total)	< 1
					508432.99	4619125.63	Manganese (Dissolved)	< 1
					508432.99	4619125.63	Manganese (Total)	2.86
					508432.99	4619125.63	Mercury (Total)	< 0.2
					508432.99	4619125.63	Nickel (Total)	< 1.4
					508432.99	4619125.63	Silver (Total)	< 1
					508432.99	4619125.63	Sodium	6.88 (Q)
					508432.99	4619125.63	Arsenic (Total)	< 1.2
					508432.99	4619125.63	Barium (Total)	23
					508432.99	4619125.63	Cadmium (Total)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508432.99	4619125.63	Chromium (Total)	< 1.2
					508432.99	4619125.63	Copper (Dissolved)	< 1
					508432.99	4619125.63	Copper (Total)	< 1
					508432.99	4619125.63	Zinc (Dissolved)	< 3
					508432.99	4619125.63	Zinc (Total)	< 6
					508432.99	4619125.63	Silica (Molybdate Reactive)	< 1
					508432.99	4619125.63	Heptachlor	< 0.28
					508432.99	4619125.63	Nitrogen, Ammonia	< 0.1
					508432.99	4619125.63	Phosphorus, Total	< 0.03
					508432.99	4619125.63	Selenium (Total)	< 2.2
					508432.99	4619125.63	Clomazone	< 0.1
					508432.99	4619125.63	Biochemical Oxygen Demand (Total) 5-day	< 1
					508432.99	4619125.63	Chemical Oxygen Demand	8.7
					508432.99	4619125.63	Nitrogen, Nitrate+Nitrite	0.2
					508432.99	4619125.63	pH	8
					508432.99	4619125.63	Solids, Non-filterable Residue	< 4
					508432.99	4619125.63	Solids (Total) Residue	182
					508432.99	4619125.63	Solids, Filterable Residue	165
					508432.99	4619125.63	Total Organic Carbon	1.8
					508432.99	4619125.63	Nitrogen (Total) Kjeldahl	0.1 (DJ)
					508432.99	4619125.63	Hardness (as CaCO3)	131
					508432.99	4619125.63	Alkalinity (as CaCO3)	120
					508432.99	4619125.63	Coliform, E.coli	< 1
LMG070-0005	TC-2	Trail Cr	2/24/2004	AA20668	510327.75	4618973.91	Sulfate	88
					510327.75	4618973.91	Chloride	74
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	1100
					510327.75	4618973.91	Iron (Dissolved)	81.4
					510327.75	4618973.91	Iron (Total)	2710
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	1.79
					510327.75	4618973.91	Manganese (Dissolved)	89.4
					510327.75	4618973.91	Manganese (Total)	180
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	2.75
					510327.75	4618973.91	Arsenic (Total)	2.44
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	2.02
					510327.75	4618973.91	Copper (Dissolved)	2.97
					510327.75	4618973.91	Copper (Total)	2.69
					510327.75	4618973.91	Zinc (Dissolved)	3.68
					510327.75	4618973.91	Zinc (Total)	10.9
					510327.75	4618973.91	Nitrogen, Ammonia	< 0.1
					510327.75	4618973.91	Phosphorus, Total	0.11
					510327.75	4618973.91	Chemical Oxygen Demand	29.9
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	1.2
					510327.75	4618973.91	pH	7.7
					510327.75	4618973.91	Solids, Non-filterable Residue	45
					510327.75	4618973.91	Solids (Total) Residue	475
					510327.75	4618973.91	Solids, Filterable Residue	429
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	1
					510327.75	4618973.91	Hardness (as CaCO3)	272
					510327.75	4618973.91	Alkalinity (as CaCO3)	140
					510327.75	4618973.91	Total Organic Carbon	7.2
LMG070-0005	TC-2	Trail Cr	3/16/2004	AA21223	510327.75	4618973.91	Sulfate	96
					510327.75	4618973.91	Chloride	64
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	174
					510327.75	4618973.91	Iron (Dissolved)	37.8
					510327.75	4618973.91	Iron (Total)	850
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	< 1
					510327.75	4618973.91	Manganese (Dissolved)	86.2
					510327.75	4618973.91	Manganese (Total)	122
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	1.71
					510327.75	4618973.91	Arsenic (Total)	< 1.2
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	< 1.2
					510327.75	4618973.91	Copper (Dissolved)	< 1
					510327.75	4618973.91	Copper (Total)	1.31
					510327.75	4618973.91	Zinc (Dissolved)	< 3
					510327.75	4618973.91	Zinc (Total)	< 6
					510327.75	4618973.91	Nitrogen, Ammonia	< 0.1
					510327.75	4618973.91	Phosphorus, Total	< 0.03
					510327.75	4618973.91	Biochemical Oxygen Demand (Total) 5-day	< 1
					510327.75	4618973.91	Chemical Oxygen Demand	12.2
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	0.6
					510327.75	4618973.91	pH	8.1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					510327.75	4618973.91	Solids, Non-filterable Residue	10
					510327.75	4618973.91	Solids (Total) Residue	499
					510327.75	4618973.91	Solids, Filterable Residue	474
					510327.75	4618973.91	Total Organic Carbon	4
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	0.4
					510327.75	4618973.91	Hardness (as CaCO3)	336
					510327.75	4618973.91	Alkalinity (as CaCO3)	201
					510327.75	4618973.91	Coliform, E.coli	240
LMG070-0005	TC-2	Trail Cr	4/13/2004	AA21901	510327.75	4618973.91	Sulfate	86
					510327.75	4618973.91	Chloride	56
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	88
					510327.75	4618973.91	Iron (Dissolved)	26
					510327.75	4618973.91	Iron (Total)	576
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	< 1
					510327.75	4618973.91	Manganese (Dissolved)	64.8
					510327.75	4618973.91	Manganese (Total)	91.1
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	1.45
					510327.75	4618973.91	Arsenic (Total)	< 1.2
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	< 1.2
					510327.75	4618973.91	Copper (Dissolved)	< 1
					510327.75	4618973.91	Copper (Total)	1.07
					510327.75	4618973.91	Zinc (Dissolved)	< 3
					510327.75	4618973.91	Zinc (Total)	< 6
					510327.75	4618973.91	Nitrogen, Ammonia	< 0.1 (fDJ)
					510327.75	4618973.91	Phosphorus, Total	< 0.03
					510327.75	4618973.91	Chemical Oxygen Demand	9.8
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	0.3
					510327.75	4618973.91	pH	7.9
					510327.75	4618973.91	Solids, Non-filterable Residue	6 (DJ)
					510327.75	4618973.91	Solids (Total) Residue	507
					510327.75	4618973.91	Solids, Filterable Residue	468
					510327.75	4618973.91	Total Organic Carbon	3.6
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	0.4
					510327.75	4618973.91	Hardness (as CaCO3)	323
					510327.75	4618973.91	Alkalinity (as CaCO3)	220
					510327.75	4618973.91	Coliform, E.coli	170
LMG070-0005	TC-2	Trail Cr	6/1/2004	AA23034	510327.75	4618973.91	Sulfate	75
					510327.75	4618973.91	Chloride	40
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	2300
					510327.75	4618973.91	Iron (Dissolved)	120
					510327.75	4618973.91	Iron (Total)	4010
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	3.66
					510327.75	4618973.91	Manganese (Dissolved)	107
					510327.75	4618973.91	Manganese (Total)	242
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	3.99
					510327.75	4618973.91	Arsenic (Total)	2.13
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	3.31
					510327.75	4618973.91	Copper (Dissolved)	1.33
					510327.75	4618973.91	Copper (Total)	4.53
					510327.75	4618973.91	Zinc (Dissolved)	4.13
					510327.75	4618973.91	Zinc (Total)	19.4
					510327.75	4618973.91	Nitrogen, Ammonia	0.1
					510327.75	4618973.91	Phosphorus, Total	0.16
					510327.75	4618973.91	Chemical Oxygen Demand	47.3
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	1.8
					510327.75	4618973.91	pH	7.7
					510327.75	4618973.91	Solids, Non-filterable Residue	85
					510327.75	4618973.91	Solids (Total) Residue	475
					510327.75	4618973.91	Solids, Filterable Residue	355
					510327.75	4618973.91	Total Organic Carbon	11.4
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	2.3
					510327.75	4618973.91	Hardness (as CaCO3)	240
					510327.75	4618973.91	Alkalinity (as CaCO3)	122
LMG070-0005	TC-2	Trail Cr	7/6/2004	AA23247	510327.75	4618973.91	Sulfate	64 (fDJ)
					510327.75	4618973.91	Chloride	53
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	204
					510327.75	4618973.91	Iron (Dissolved)	18
					510327.75	4618973.91	Iron (Total)	775
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	< 1

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					510327.75	4618973.91	Manganese (Dissolved)	36.2
					510327.75	4618973.91	Manganese (Total)	69
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	< 1.4
					510327.75	4618973.91	Arsenic (Total)	< 1.2
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	< 1.2
					510327.75	4618973.91	Copper (Dissolved)	< 1
					510327.75	4618973.91	Copper (Total)	1.11
					510327.75	4618973.91	Zinc (Dissolved)	< 3
					510327.75	4618973.91	Zinc (Total)	< 6
					510327.75	4618973.91	Nitrogen, Ammonia	< 0.1
					510327.75	4618973.91	Phosphorus, Total	0.05
					510327.75	4618973.91	Biochemical Oxygen Demand (Total) 5-day	< 1
					510327.75	4618973.91	Chemical Oxygen Demand	13.5
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	0.4
					510327.75	4618973.91	pH	8
					510327.75	4618973.91	Solids, Non-filterable Residue	10
					510327.75	4618973.91	Solids (Total) Residue	475
					510327.75	4618973.91	Solids, Filterable Residue	433
					510327.75	4618973.91	Total Organic Carbon	3.4
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	0.4
					510327.75	4618973.91	Hardness (as CaCO3)	325
					510327.75	4618973.91	Alkalinity (as CaCO3)	212
LMG070-0005	TC-2	Trail Cr	1/6/2004	AA20565	510327.75	4618973.91	Sulfate	97
					510327.75	4618973.91	Chloride	134
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	79.5
					510327.75	4618973.91	Iron (Dissolved)	23.2
					510327.75	4618973.91	Iron (Total)	656
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	< 1
					510327.75	4618973.91	Manganese (Dissolved)	65.7
					510327.75	4618973.91	Manganese (Total)	88.8
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	1.54
					510327.75	4618973.91	Arsenic (Total)	< 1.2
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	< 1.2
					510327.75	4618973.91	Copper (Dissolved)	< 1
					510327.75	4618973.91	Copper (Total)	1.05
					510327.75	4618973.91	Zinc (Dissolved)	3.79
					510327.75	4618973.91	Zinc (Total)	< 6
					510327.75	4618973.91	Nitrogen, Ammonia	< 0.1
					510327.75	4618973.91	Phosphorus, Total	< 0.03
					510327.75	4618973.91	Biochemical Oxygen Demand (Total) 5-day	< 1
					510327.75	4618973.91	Chemical Oxygen Demand	12.6
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	0.5
					510327.75	4618973.91	pH	8
					510327.75	4618973.91	Solids, Non-filterable Residue	5
					510327.75	4618973.91	Solids (Total) Residue	607
					510327.75	4618973.91	Solids, Filterable Residue	582
					510327.75	4618973.91	Total Organic Carbon	4
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	0.4
					510327.75	4618973.91	Hardness (as CaCO3)	344
					510327.75	4618973.91	Alkalinity (as CaCO3)	195
LMG070-0005	TC-2	Trail Cr	5/18/2004	AA22535	510327.75	4618973.91	Sulfate	84
					510327.75	4618973.91	Chloride	70
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	1120
					510327.75	4618973.91	Iron (Dissolved)	54.4
					510327.75	4618973.91	Iron (Total)	2980
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	2.2
					510327.75	4618973.91	Manganese (Dissolved)	70.3
					510327.75	4618973.91	Manganese (Total)	247
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	3.09
					510327.75	4618973.91	Arsenic (Total)	2.01
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	2.26
					510327.75	4618973.91	Copper (Dissolved)	< 1
					510327.75	4618973.91	Copper (Total)	2.69
					510327.75	4618973.91	Zinc (Dissolved)	< 3
					510327.75	4618973.91	Zinc (Total)	11
					510327.75	4618973.91	Nitrogen, Ammonia	0.2
					510327.75	4618973.91	Phosphorus, Total	0.1 (DJ)
					510327.75	4618973.91	Biochemical Oxygen Demand (Total) 5-day	1.8
					510327.75	4618973.91	Chemical Oxygen Demand	30.2

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	0.5
					510327.75	4618973.91	pH	7.8
					510327.75	4618973.91	Solids, Non-filterable Residue	50
					510327.75	4618973.91	Solids (Total) Residue	561
					510327.75	4618973.91	Solids, Filterable Residue	498
					510327.75	4618973.91	Total Organic Carbon	6.6
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	1.1
					510327.75	4618973.91	Hardness (as CaCO3)	324
					510327.75	4618973.91	Alkalinity (as CaCO3)	202
LMG070-0005	TC-2	Trail Cr	9/2/2004	AA24175	510327.75	4618973.91	Sulfate	84
					510327.75	4618973.91	Chloride	54
					510327.75	4618973.91	Cyanide (Total)	< 0.005
					510327.75	4618973.91	Aluminum (Total)	185
					510327.75	4618973.91	Iron (Dissolved)	26.8
					510327.75	4618973.91	Iron (Total)	874
					510327.75	4618973.91	Lead (Dissolved)	< 1
					510327.75	4618973.91	Lead (Total)	< 1
					510327.75	4618973.91	Manganese (Dissolved)	36.7
					510327.75	4618973.91	Manganese (Total)	77.1
					510327.75	4618973.91	Mercury (Total)	< 0.2
					510327.75	4618973.91	Nickel (Total)	1.42
					510327.75	4618973.91	Arsenic (Total)	1.42
					510327.75	4618973.91	Cadmium (Total)	< 1
					510327.75	4618973.91	Chromium (Total)	< 1.2
					510327.75	4618973.91	Copper (Dissolved)	1.02
					510327.75	4618973.91	Copper (Total)	1.09
					510327.75	4618973.91	Zinc (Dissolved)	3.02
					510327.75	4618973.91	Zinc (Total)	< 6
					510327.75	4618973.91	Nitrogen, Ammonia	< 0.1
					510327.75	4618973.91	Phosphorus, Total	0.05
					510327.75	4618973.91	Biochemical Oxygen Demand (Total) 5-day	< 1
					510327.75	4618973.91	Chemical Oxygen Demand	21
					510327.75	4618973.91	Nitrogen, Nitrate+Nitrite	0.4
					510327.75	4618973.91	pH	8.1
					510327.75	4618973.91	Solids, Non-filterable Residue	12
					510327.75	4618973.91	Solids (Total) Residue	511
					510327.75	4618973.91	Solids, Filterable Residue	474
					510327.75	4618973.91	Total Organic Carbon	3.9
					510327.75	4618973.91	Nitrogen (Total) Kjeldahl	0.5 (DJ)
					510327.75	4618973.91	Hardness (as CaCO3)	346
					510327.75	4618973.91	Alkalinity (as CaCO3)	228
LMG070-0007	TC-.5	Trail Cr	2/24/2004	AA20672	507947.94	4619001.72	Sulfate	82
					507947.94	4619001.72	Chloride	95
					507947.94	4619001.72	Fluoride	0.1
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	190
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	69.7
					507947.94	4619001.72	Iron (Total)	1380
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	1.29
					507947.94	4619001.72	Manganese (Dissolved)	91.7
					507947.94	4619001.72	Manganese (Total)	133
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	2.36
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	49.3 (Q)
					507947.94	4619001.72	Arsenic (Total)	1.7
					507947.94	4619001.72	Barium (Total)	66.6
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	1.54
					507947.94	4619001.72	Copper (Dissolved)	7.36
					507947.94	4619001.72	Copper (Total)	2.56
					507947.94	4619001.72	Zinc (Dissolved)	5.63
					507947.94	4619001.72	Zinc (Total)	11.8
					507947.94	4619001.72	Silica (Molybdate Reactive)	10
					507947.94	4619001.72	Nitrogen, Ammonia	< 0.1
					507947.94	4619001.72	Phosphorus, Total	0.09
					507947.94	4619001.72	Selenium (Total)	< 2
					507947.94	4619001.72	Chemical Oxygen Demand	24.2
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	1.9
					507947.94	4619001.72	pH	7.8
					507947.94	4619001.72	Solids, Non-filterable Residue	18
					507947.94	4619001.72	Solids (Total) Residue	505
					507947.94	4619001.72	Solids, Filterable Residue	460
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	0.8
					507947.94	4619001.72	Hardness (as CaCO3)	277
					507947.94	4619001.72	Alkalinity (as CaCO3)	141
					507947.94	4619001.72	Total Organic Carbon	6.8

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
LMG070-0007	TC-.5	Trail Cr	3/16/2004	AA21227	507947.94	4619001.72	Sulfate	83
					507947.94	4619001.72	Chloride	82
					507947.94	4619001.72	Fluoride	0.2
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	221
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	19.2
					507947.94	4619001.72	Iron (Total)	758
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	1.08
					507947.94	4619001.72	Manganese (Dissolved)	102
					507947.94	4619001.72	Manganese (Total)	139
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	2.08
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	43.6 (Q)
					507947.94	4619001.72	Arsenic (Total)	< 1.2
					507947.94	4619001.72	Barium (Total)	67.3
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	< 1.2
					507947.94	4619001.72	Copper (Dissolved)	1.17
					507947.94	4619001.72	Copper (Total)	2.51
					507947.94	4619001.72	Zinc (Dissolved)	6.38
					507947.94	4619001.72	Zinc (Total)	12.5
					507947.94	4619001.72	Silica (Molybdate Reactive)	11
					507947.94	4619001.72	Nitrogen, Ammonia	< 0.1
					507947.94	4619001.72	Phosphorus, Total	0.07
					507947.94	4619001.72	Selenium (Total)	< 2
					507947.94	4619001.72	Biochemical Oxygen Demand (Total) 5-day	< 1
					507947.94	4619001.72	Chemical Oxygen Demand	13.5
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	2.3
					507947.94	4619001.72	pH	8
					507947.94	4619001.72	Solids, Non-filterable Residue	11
					507947.94	4619001.72	Solids (Total) Residue	520
					507947.94	4619001.72	Solids, Filterable Residue	496
					507947.94	4619001.72	Total Organic Carbon	4.4
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	0.8
					507947.94	4619001.72	Hardness (as CaCO3)	364
					507947.94	4619001.72	Alkalinity (as CaCO3)	187
LMG070-0007	TC-.5	Trail Cr	4/13/2004	AA21905	507947.94	4619001.72	Sulfate	81
					507947.94	4619001.72	Chloride	78
					507947.94	4619001.72	Fluoride	< 0.1
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	219
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	22.4
					507947.94	4619001.72	Iron (Total)	1050
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	1.97
					507947.94	4619001.72	Manganese (Dissolved)	72.2
					507947.94	4619001.72	Manganese (Total)	124
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	2.45
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	41.8 (Q)
					507947.94	4619001.72	Arsenic (Total)	< 1.2
					507947.94	4619001.72	Barium (Total)	74.4
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	1.58
					507947.94	4619001.72	Copper (Dissolved)	1.56
					507947.94	4619001.72	Copper (Total)	3.61
					507947.94	4619001.72	Zinc (Dissolved)	4.34
					507947.94	4619001.72	Zinc (Total)	18.1
					507947.94	4619001.72	Silica (Molybdate Reactive)	9
					507947.94	4619001.72	Nitrogen, Ammonia	< 0.1 (fDJ)
					507947.94	4619001.72	Phosphorus, Total	0.1
					507947.94	4619001.72	Selenium (Total)	< 2
					507947.94	4619001.72	Chemical Oxygen Demand	15.1
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	2.4
					507947.94	4619001.72	pH	8.1
					507947.94	4619001.72	Solids, Non-filterable Residue	15 (DJ)
					507947.94	4619001.72	Solids (Total) Residue	534
					507947.94	4619001.72	Solids, Filterable Residue	481
					507947.94	4619001.72	Total Organic Carbon	4.3
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	0.7
					507947.94	4619001.72	Hardness (as CaCO3)	309
					507947.94	4619001.72	Alkalinity (as CaCO3)	202
LMG070-0007	TC-.5	Trail Cr	6/1/2004	AA23038	507947.94	4619001.72	Sulfate	65
					507947.94	4619001.72	Chloride	45

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					507947.94	4619001.72	Fluoride	0.2
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	149
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	72.8
					507947.94	4619001.72	Iron (Total)	2880
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	2.69
					507947.94	4619001.72	Manganese (Dissolved)	99.9
					507947.94	4619001.72	Manganese (Total)	164
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	3.43
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	25.3 (Q)
					507947.94	4619001.72	Arsenic (Total)	2.69
					507947.94	4619001.72	Barium (Total)	67.5
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	2.99
					507947.94	4619001.72	Copper (Dissolved)	1.8
					507947.94	4619001.72	Copper (Total)	3.79
					507947.94	4619001.72	Zinc (Dissolved)	3.66
					507947.94	4619001.72	Zinc (Total)	15.6
					507947.94	4619001.72	Silica (Molybdate Reactive)	13
					507947.94	4619001.72	Nitrogen, Ammonia	< 0.1
					507947.94	4619001.72	Phosphorus, Total	0.13
					507947.94	4619001.72	Selenium (Total)	< 2.2
					507947.94	4619001.72	Chemical Oxygen Demand	35.1
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	2.1
					507947.94	4619001.72	pH	7.7
					507947.94	4619001.72	Solids, Non-filterable Residue	54
					507947.94	4619001.72	Solids (Total) Residue	406
					507947.94	4619001.72	Solids, Filterable Residue	346
					507947.94	4619001.72	Total Organic Carbon	10.4
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	1.7
					507947.94	4619001.72	Hardness (as CaCO3)	210
					507947.94	4619001.72	Alkalinity (as CaCO3)	110
LMG070-0007	TC-.5	Trail Cr	7/6/2004	AA23251	507947.94	4619001.72	Sulfate	57 (fDJ)
					507947.94	4619001.72	Chloride	62
					507947.94	4619001.72	Fluoride	0.2
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	164
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	27.1
					507947.94	4619001.72	Iron (Total)	601
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	1.2
					507947.94	4619001.72	Manganese (Dissolved)	42.2
					507947.94	4619001.72	Manganese (Total)	71.7
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	1.68
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	35.3 (Q)
					507947.94	4619001.72	Arsenic (Total)	< 1.2
					507947.94	4619001.72	Barium (Total)	53.7
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	< 1.2
					507947.94	4619001.72	Copper (Dissolved)	11
					507947.94	4619001.72	Copper (Total)	4.64
					507947.94	4619001.72	Zinc (Dissolved)	4.84
					507947.94	4619001.72	Zinc (Total)	7.76
					507947.94	4619001.72	Silica (Molybdate Reactive)	10
					507947.94	4619001.72	Nitrogen, Ammonia	0.1
					507947.94	4619001.72	Phosphorus, Total	0.08
					507947.94	4619001.72	Biochemical Oxygen Demand (Total) 5-day	< 1
					507947.94	4619001.72	Chemical Oxygen Demand	13.9
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	1.8
					507947.94	4619001.72	pH	7.8
					507947.94	4619001.72	Solids, Non-filterable Residue	11
					507947.94	4619001.72	Solids (Total) Residue	418
					507947.94	4619001.72	Solids, Filterable Residue	378
					507947.94	4619001.72	Total Organic Carbon	4.5
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	0.8
					507947.94	4619001.72	Hardness (as CaCO3)	257
					507947.94	4619001.72	Alkalinity (as CaCO3)	158
LMG070-0007	TC-.5	Trail Cr	1/6/2004	AA20562	507947.94	4619001.72	Sulfate	90
					507947.94	4619001.72	Chloride	101
					507947.94	4619001.72	Fluoride	0.2
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	220

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	15.9
					507947.94	4619001.72	Iron (Total)	534
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	< 1
					507947.94	4619001.72	Manganese (Dissolved)	57.6
					507947.94	4619001.72	Manganese (Total)	78.1
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	3.06
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	60.2 (Q)
					507947.94	4619001.72	Arsenic (Total)	< 1.2
					507947.94	4619001.72	Barium (Total)	70.7
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	< 1.2
					507947.94	4619001.72	Copper (Dissolved)	1.39
					507947.94	4619001.72	Copper (Total)	2.02
					507947.94	4619001.72	Zinc (Dissolved)	6.78
					507947.94	4619001.72	Zinc (Total)	9.47
					507947.94	4619001.72	Nitrogen, Ammonia	< 0.1
					507947.94	4619001.72	Phosphorus, Total	0.06
					507947.94	4619001.72	Selenium (Total)	< 2
					507947.94	4619001.72	Biochemical Oxygen Demand (Total) 5-day	< 1
					507947.94	4619001.72	Chemical Oxygen Demand	13.1
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	2.3
					507947.94	4619001.72	pH	8.1
					507947.94	4619001.72	Solids, Non-filterable Residue	5
					507947.94	4619001.72	Solids (Total) Residue	546
					507947.94	4619001.72	Solids, Filterable Residue	518
					507947.94	4619001.72	Total Organic Carbon	4.6
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	0.6
					507947.94	4619001.72	Hardness (as CaCO3)	325
					507947.94	4619001.72	Alkalinity (as CaCO3)	179
LMG070-0007	TC-.5	Trail Cr	5/18/2004	AA22539	507947.94	4619001.72	Sulfate	78
					507947.94	4619001.72	Chloride	77
					507947.94	4619001.72	Fluoride	0.2
					507947.94	4619001.72	Chromium, Hexavalent	< 10
					507947.94	4619001.72	Calcium (as CaCO3)	200
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	59.4
					507947.94	4619001.72	Iron (Total)	1450
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	3.37
					507947.94	4619001.72	Manganese (Dissolved)	86
					507947.94	4619001.72	Manganese (Total)	144
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	2.94
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	41.8 (Q)
					507947.94	4619001.72	Arsenic (Total)	1.91
					507947.94	4619001.72	Barium (Total)	72
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	2.59
					507947.94	4619001.72	Copper (Dissolved)	2.31
					507947.94	4619001.72	Copper (Total)	5.74
					507947.94	4619001.72	Zinc (Dissolved)	4.47
					507947.94	4619001.72	Zinc (Total)	21.3
					507947.94	4619001.72	Silica (Molybdate Reactive)	11
					507947.94	4619001.72	Nitrogen, Ammonia	0.2
					507947.94	4619001.72	Phosphorus, Total	0.13 (DJ)
					507947.94	4619001.72	Selenium (Total)	< 2.2
					507947.94	4619001.72	Biochemical Oxygen Demand (Total) 5-day	1
					507947.94	4619001.72	Chemical Oxygen Demand	25.3
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	2.2
					507947.94	4619001.72	pH	7.8
					507947.94	4619001.72	Solids, Non-filterable Residue	26
					507947.94	4619001.72	Solids (Total) Residue	521
					507947.94	4619001.72	Solids, Filterable Residue	495
					507947.94	4619001.72	Total Organic Carbon	6.6
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	1.3
					507947.94	4619001.72	Hardness (as CaCO3)	310
					507947.94	4619001.72	Alkalinity (as CaCO3)	173
LMG070-0007	TC-.5	Trail Cr	9/2/2004	AA24179	507947.94	4619001.72	Sulfate	70
					507947.94	4619001.72	Chloride	52
					507947.94	4619001.72	Fluoride	0.2
					507947.94	4619001.72	Chromium, Hexavalent	< 10 (HJ)
					507947.94	4619001.72	Calcium (as CaCO3)	170
					507947.94	4619001.72	Cyanide (Total)	< 0.005
					507947.94	4619001.72	Iron (Dissolved)	20

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					507947.94	4619001.72	Iron (Total)	202
					507947.94	4619001.72	Lead (Dissolved)	< 1
					507947.94	4619001.72	Lead (Total)	< 1
					507947.94	4619001.72	Manganese (Dissolved)	20.7
					507947.94	4619001.72	Manganese (Total)	51.8
					507947.94	4619001.72	Mercury (Total)	< 0.2
					507947.94	4619001.72	Nickel (Total)	1.45
					507947.94	4619001.72	Silver (Total)	< 1
					507947.94	4619001.72	Sodium	31.3 (Q)
					507947.94	4619001.72	Arsenic (Total)	1.28
					507947.94	4619001.72	Barium (Total)	53.5
					507947.94	4619001.72	Cadmium (Total)	< 1
					507947.94	4619001.72	Chromium (Total)	< 1.2
					507947.94	4619001.72	Copper (Dissolved)	3.98
					507947.94	4619001.72	Copper (Total)	4.76
					507947.94	4619001.72	Zinc (Dissolved)	5.13
					507947.94	4619001.72	Zinc (Total)	6.83
					507947.94	4619001.72	Silica (Molybdate Reactive)	8.9
					507947.94	4619001.72	Nitrogen, Ammonia	< 0.1
					507947.94	4619001.72	Phosphorus, Total	0.06
					507947.94	4619001.72	Selenium (Total)	< 2.2
					507947.94	4619001.72	Biochemical Oxygen Demand (Total) 5-day	1
					507947.94	4619001.72	Chemical Oxygen Demand	16.1
					507947.94	4619001.72	Nitrogen, Nitrate+Nitrite	1.5
					507947.94	4619001.72	pH	8
					507947.94	4619001.72	Solids, Non-filterable Residue	< 4
					507947.94	4619001.72	Solids (Total) Residue	401
					507947.94	4619001.72	Solids, Filterable Residue	378
					507947.94	4619001.72	Total Organic Carbon	4.5
					507947.94	4619001.72	Nitrogen (Total) Kjeldahl	0.5 (DJ)
					507947.94	4619001.72	Hardness (as CaCO3)	261
					507947.94	4619001.72	Alkalinity (as CaCO3)	161
LMG070-0008	TC-1	Trail Cr	2/24/2004	AA20670	508571.91	4618879.08	Sulfate	86
					508571.91	4618879.08	Chloride	95
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	76.8
					508571.91	4618879.08	Iron (Total)	1590
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	1.22
					508571.91	4618879.08	Manganese (Dissolved)	87.7
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	2.32
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	47.7 (Q)
					508571.91	4618879.08	Arsenic (Total)	2.43
					508571.91	4618879.08	Barium (Total)	67.6
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	1.58
					508571.91	4618879.08	Copper (Dissolved)	1.44
					508571.91	4618879.08	Copper (Total)	2.61
					508571.91	4618879.08	Zinc (Dissolved)	5.81
					508571.91	4618879.08	Zinc (Total)	10.2
					508571.91	4618879.08	Silica (Molybdate Reactive)	10
					508571.91	4618879.08	Nitrogen, Ammonia	< 0.1
					508571.91	4618879.08	Phosphorus, Total	0.09
					508571.91	4618879.08	Selenium (Total)	2.55
					508571.91	4618879.08	Chemical Oxygen Demand	24.2
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	1.7
					508571.91	4618879.08	pH	7.8
					508571.91	4618879.08	Solids, Non-filterable Residue	22
					508571.91	4618879.08	Solids (Total) Residue	496
					508571.91	4618879.08	Solids, Filterable Residue	459
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	0.8
					508571.91	4618879.08	Hardness (as CaCO3)	276
					508571.91	4618879.08	Alkalinity (as CaCO3)	144
					508571.91	4618879.08	Total Organic Carbon	6.8
LMG070-0008	TC-1	Trail Cr	3/16/2004	AA21225	508571.91	4618879.08	Sulfate	86
					508571.91	4618879.08	Chloride	83
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	27.3
					508571.91	4618879.08	Iron (Total)	1020
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	1.13
					508571.91	4618879.08	Manganese (Dissolved)	102
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	2.04
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	44.3 (Q)
					508571.91	4618879.08	Arsenic (Total)	1.21

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508571.91	4618879.08	Barium (Total)	66.5
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	< 1.2
					508571.91	4618879.08	Copper (Dissolved)	1.1
					508571.91	4618879.08	Copper (Total)	2.38
					508571.91	4618879.08	Zinc (Dissolved)	7.1
					508571.91	4618879.08	Zinc (Total)	13.2
					508571.91	4618879.08	Silica (Molybdate Reactive)	12
					508571.91	4618879.08	Nitrogen, Ammonia	< 0.1
					508571.91	4618879.08	Phosphorus, Total	0.07
					508571.91	4618879.08	Selenium (Total)	< 2
					508571.91	4618879.08	Biochemical Oxygen Demand (Total) 5-day	< 1
					508571.91	4618879.08	Chemical Oxygen Demand	14.7
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	2.6
					508571.91	4618879.08	pH	8.1
					508571.91	4618879.08	Solids, Non-filterable Residue	18
					508571.91	4618879.08	Solids (Total) Residue	522
					508571.91	4618879.08	Solids, Filterable Residue	499
					508571.91	4618879.08	Total Organic Carbon	4.4
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	0.8
					508571.91	4618879.08	Hardness (as CaCO3)	334
					508571.91	4618879.08	Alkalinity (as CaCO3)	188
					508571.91	4618879.08	Coliform, E.coli	820
LMG070-0008	TC-1	Trail Cr	4/13/2004	AA21903	508571.91	4618879.08	Sulfate	80
					508571.91	4618879.08	Chloride	77
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	23.4
					508571.91	4618879.08	Iron (Total)	890
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	1.03
					508571.91	4618879.08	Manganese (Dissolved)	77.6
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	2.06
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	42.6 (Q)
					508571.91	4618879.08	Arsenic (Total)	< 1.2
					508571.91	4618879.08	Barium (Total)	66.1
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	< 1.2
					508571.91	4618879.08	Copper (Dissolved)	1.23
					508571.91	4618879.08	Copper (Total)	2.38
					508571.91	4618879.08	Zinc (Dissolved)	5.15
					508571.91	4618879.08	Zinc (Total)	12.6
					508571.91	4618879.08	Silica (Molybdate Reactive)	10
					508571.91	4618879.08	Nitrogen, Ammonia	< 0.1 (fDJ)
					508571.91	4618879.08	Phosphorus, Total	0.09
					508571.91	4618879.08	Selenium (Total)	< 2
					508571.91	4618879.08	Chemical Oxygen Demand	17.5
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	2.7
					508571.91	4618879.08	pH	8
					508571.91	4618879.08	Solids, Non-filterable Residue	14 (DJ)
					508571.91	4618879.08	Solids (Total) Residue	531
					508571.91	4618879.08	Solids, Filterable Residue	489
					508571.91	4618879.08	Total Organic Carbon	4.3
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	0.8
					508571.91	4618879.08	Hardness (as CaCO3)	299
					508571.91	4618879.08	Alkalinity (as CaCO3)	200
					508571.91	4618879.08	Coliform, E.coli	44
LMG070-0008	TC-1	Trail Cr	6/1/2004	AA23036	508571.91	4618879.08	Sulfate	67
					508571.91	4618879.08	Chloride	46
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	84.3
					508571.91	4618879.08	Iron (Total)	3030
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	3.01
					508571.91	4618879.08	Manganese (Dissolved)	104
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	3.49
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	25.5 (Q)
					508571.91	4618879.08	Arsenic (Total)	2.21
					508571.91	4618879.08	Barium (Total)	70.8
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	2.93
					508571.91	4618879.08	Copper (Dissolved)	1.57
					508571.91	4618879.08	Copper (Total)	3.8
					508571.91	4618879.08	Zinc (Dissolved)	3.76
					508571.91	4618879.08	Zinc (Total)	16.7
					508571.91	4618879.08	Silica (Molybdate Reactive)	13

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508571.91	4618879.08	Nitrogen, Ammonia	0.1
					508571.91	4618879.08	Phosphorus, Total	0.14
					508571.91	4618879.08	Selenium (Total)	< 2.2
					508571.91	4618879.08	Chemical Oxygen Demand	36.8
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	2.1
					508571.91	4618879.08	pH	7.7
					508571.91	4618879.08	Solids, Non-filterable Residue	60
					508571.91	4618879.08	Solids (Total) Residue	447
					508571.91	4618879.08	Solids, Filterable Residue	359
					508571.91	4618879.08	Total Organic Carbon	10.6
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	1.8
					508571.91	4618879.08	Hardness (as CaCO3)	217
					508571.91	4618879.08	Alkalinity (as CaCO3)	116
LMG070-0008	TC-1	Trail Cr	7/6/2004	AA23249	508571.91	4618879.08	Sulfate	66 (fDJ)
					508571.91	4618879.08	Chloride	78
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	13.4
					508571.91	4618879.08	Iron (Total)	823
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	1.26
					508571.91	4618879.08	Manganese (Dissolved)	66.9
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	1.84
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	41.5 (Q)
					508571.91	4618879.08	Arsenic (Total)	1.56
					508571.91	4618879.08	Barium (Total)	63.1
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	< 1.2
					508571.91	4618879.08	Copper (Dissolved)	1.98
					508571.91	4618879.08	Copper (Total)	2.67
					508571.91	4618879.08	Zinc (Dissolved)	< 3
					508571.91	4618879.08	Zinc (Total)	9.62
					508571.91	4618879.08	Silica (Molybdate Reactive)	12
					508571.91	4618879.08	Nitrogen, Ammonia	< 0.1
					508571.91	4618879.08	Phosphorus, Total	0.09
					508571.91	4618879.08	Biochemical Oxygen Demand (Total) 5-day	< 1
					508571.91	4618879.08	Chemical Oxygen Demand	15.9
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	2.6
					508571.91	4618879.08	pH	7.9
					508571.91	4618879.08	Solids, Non-filterable Residue	12
					508571.91	4618879.08	Solids (Total) Residue	499
					508571.91	4618879.08	Solids, Filterable Residue	450
					508571.91	4618879.08	Total Organic Carbon	4.1
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	0.8
					508571.91	4618879.08	Hardness (as CaCO3)	302
					508571.91	4618879.08	Alkalinity (as CaCO3)	184
LMG070-0008	TC-1	Trail Cr	1/6/2004	AA20564	508571.91	4618879.08	Sulfate	87
					508571.91	4618879.08	Chloride	102
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	22.9
					508571.91	4618879.08	Iron (Total)	565
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	< 1
					508571.91	4618879.08	Manganese (Dissolved)	61.6
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	1.82
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	58.8 (Q)
					508571.91	4618879.08	Arsenic (Total)	< 1.2
					508571.91	4618879.08	Barium (Total)	67.6
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	< 1.2
					508571.91	4618879.08	Copper (Dissolved)	1.44
					508571.91	4618879.08	Copper (Total)	1.91
					508571.91	4618879.08	Zinc (Dissolved)	7.35
					508571.91	4618879.08	Zinc (Total)	8.88
					508571.91	4618879.08	Nitrogen, Ammonia	< 0.1
					508571.91	4618879.08	Phosphorus, Total	0.07
					508571.91	4618879.08	Selenium (Total)	< 2
					508571.91	4618879.08	Biochemical Oxygen Demand (Total) 5-day	< 1
					508571.91	4618879.08	Chemical Oxygen Demand	13.9
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	2.4
					508571.91	4618879.08	pH	8
					508571.91	4618879.08	Solids, Non-filterable Residue	5
					508571.91	4618879.08	Solids (Total) Residue	550
					508571.91	4618879.08	Solids, Filterable Residue	525
					508571.91	4618879.08	Total Organic Carbon	4.4
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	0.5

Station ID	Field Site	Stream name	Sample Date	Sample#	UTMX NAD83	UTMY NAD83	Parameter	Results
					508571.91	4618879.08	Hardness (as CaCO3)	324
					508571.91	4618879.08	Alkalinity (as CaCO3)	182
LMG070-0008	TC-1	Trail Cr	5/18/2004	AA22537	508571.91	4618879.08	Sulfate	84
					508571.91	4618879.08	Chloride	82
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	52.3
					508571.91	4618879.08	Iron (Total)	1080
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	2.13
					508571.91	4618879.08	Manganese (Dissolved)	97.4
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	2.51
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	44.8 (Q)
					508571.91	4618879.08	Arsenic (Total)	1.86
					508571.91	4618879.08	Barium (Total)	71.1
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	1.54
					508571.91	4618879.08	Copper (Dissolved)	1.77
					508571.91	4618879.08	Copper (Total)	3.49
					508571.91	4618879.08	Zinc (Dissolved)	4.6
					508571.91	4618879.08	Zinc (Total)	13
					508571.91	4618879.08	Silica (Molybdate Reactive)	12
					508571.91	4618879.08	Nitrogen, Ammonia	0.2
					508571.91	4618879.08	Phosphorus, Total	0.1 (DJ)
					508571.91	4618879.08	Selenium (Total)	< 2.2
					508571.91	4618879.08	Biochemical Oxygen Demand (Total) 5-day	1.4
					508571.91	4618879.08	Chemical Oxygen Demand	24.1
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	2.5
					508571.91	4618879.08	pH	7.7
					508571.91	4618879.08	Solids, Non-filterable Residue	19
					508571.91	4618879.08	Solids (Total) Residue	533
					508571.91	4618879.08	Solids, Filterable Residue	501
					508571.91	4618879.08	Total Organic Carbon	6.7
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	1
					508571.91	4618879.08	Hardness (as CaCO3)	296
					508571.91	4618879.08	Alkalinity (as CaCO3)	176
					508571.91	4618879.08	Coliform, E.coli	820
LMG070-0008	TC-1	Trail Cr	9/2/2004	AA24177	508571.91	4618879.08	Sulfate	87
					508571.91	4618879.08	Chloride	80
					508571.91	4618879.08	Cyanide (Total)	< 0.005
					508571.91	4618879.08	Iron (Dissolved)	22
					508571.91	4618879.08	Iron (Total)	796
					508571.91	4618879.08	Lead (Dissolved)	< 1
					508571.91	4618879.08	Lead (Total)	< 1
					508571.91	4618879.08	Manganese (Dissolved)	64.2
					508571.91	4618879.08	Mercury (Total)	< 0.2
					508571.91	4618879.08	Nickel (Total)	2.15
					508571.91	4618879.08	Silver (Total)	< 1
					508571.91	4618879.08	Sodium	43.8 (Q)
					508571.91	4618879.08	Arsenic (Total)	< 1.2
					508571.91	4618879.08	Barium (Total)	71.3
					508571.91	4618879.08	Cadmium (Total)	< 1
					508571.91	4618879.08	Chromium (Total)	< 1.2
					508571.91	4618879.08	Copper (Dissolved)	1.76
					508571.91	4618879.08	Copper (Total)	2.67
					508571.91	4618879.08	Zinc (Dissolved)	4.63
					508571.91	4618879.08	Zinc (Total)	10.5
					508571.91	4618879.08	Silica (Molybdate Reactive)	14
					508571.91	4618879.08	Nitrogen, Ammonia	< 0.1
					508571.91	4618879.08	Phosphorus, Total	0.1
					508571.91	4618879.08	Selenium (Total)	< 2.2
					508571.91	4618879.08	Biochemical Oxygen Demand (Total) 5-day	< 1
					508571.91	4618879.08	Chemical Oxygen Demand	19
					508571.91	4618879.08	Nitrogen, Nitrate+Nitrite	3.1
					508571.91	4618879.08	pH	8
					508571.91	4618879.08	Solids, Non-filterable Residue	12
					508571.91	4618879.08	Solids (Total) Residue	543
					508571.91	4618879.08	Solids, Filterable Residue	505
					508571.91	4618879.08	Total Organic Carbon	4.5
					508571.91	4618879.08	Nitrogen (Total) Kjeldahl	0.7 (DJ)
					508571.91	4618879.08	Hardness (as CaCO3)	328
					508571.91	4618879.08	Alkalinity (as CaCO3)	206

APPENDIX B

IDEM field monitoring data from 2004 (AIMS database).

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG020-0001	GCR-46	Grand Calumet River at US Steel	1/7/2004	AA20567	11.2	2.3	7.5	720	18.9	4606335.27	474887.20
			2/18/2004	AA20697	6	4.9	7.4	714	12.3	4606335.27	474887.20
			3/30/2004	AA21251	8.7	13.8	7.9	702	4.1	4606335.27	474887.20
			4/21/2004	AA21929	6.3	15.6	7.6	740	8.6	4606335.27	474887.20
			5/26/2004	AA22563	6.2	18.5	7.6	700	7.9	4606335.27	474887.20
			6/17/2004	AA23125	5.8	24.5	7.8	602	4	4606335.27	474887.20
			7/20/2004	AA23275	5.5	23.7	7.8	667	18.4	4606335.27	474887.20
			8/17/2004	AA23697	6.7	20.7	7.7	646	7.4	4606335.27	474887.20
			9/21/2004	AA24203	6.2	19.5	7.7	683	8.6	4606335.27	474887.20
				DI30993						4606335.27	474887.20
				AA24429						4606335.27	474887.20
				AA24778						4606335.27	474887.20
LMG020-0003	IHC-2	Indiana Harbor Canal Bridge on Dickey Rd, E Chicago	1/8/2004	AA20575	9.9	7.9	7.8	668	7.3	4611605.09	461768.31
			2/18/2004	AA20689	9.9	7.2	7.6	622	6.1	4611605.09	461768.31
			3/30/2004	AA21244	7.8	15.5	7.9	585	7.4	4611605.09	461768.31
			4/21/2004	AA21922	7.2	18.2	7.8	579	7.8	4611605.09	461768.31
			5/26/2004	AA22556	5.9	21.2	7.7	614	7.1	4611605.09	461768.31
			6/16/2004	AA23117	5.9	23.9	7.8	565	5.8	4611605.09	461768.31
			7/19/2004	AA23268	6.7	28.9	7.9	513	4	4611605.09	461768.31
			8/16/2004	AA23690	7.1	26.1	7.9	559	5.2	4611605.09	461768.31
			9/20/2004	AA24196	6.7	25.7	8	517	10.1	4611605.09	461768.31
				AA24422						4611605.09	461768.31
				AA24771						4611605.09	461768.31
LMG020-0004	IHC-3S	Indiana Harbor Canal Bridge on Columbus Dr, E Chicago	1/7/2004	AA20578	10.4	7	7.5	641	7.4	4609852.60	460764.17
			2/18/2004	AA20686	10.6	7	7.8	576	8.3	4609852.60	460764.17
			3/30/2004	AA21241	8.2	13.8	7.8	616	8.3	4609852.60	460764.17
			4/21/2004	AA21919	7.1	16.4	7.8	583	8.4	4609852.60	460764.17
			5/26/2004	AA22553	5.9	20	7.6	609	8.6	4609852.60	460764.17
			6/16/2004	AA23114	5.5	21.7	7.8	605	5.4	4609852.60	460764.17
			7/19/2004	AA23265	5.1	27.4	7.8	537	1.4	4609852.60	460764.17
			8/16/2004	AA23687	5.4	26.1	7.7	563	3.2	4609852.60	460764.17
			9/20/2004	AA24193	5.8	23.8	7.8	556	5.4	4609852.60	460764.17
				AA24418						4609852.60	460764.17
				AA24768						4609852.60	460764.17
LMG020-0005	IHC-3W	Indiana Harbor Canal Bridge on Indianapolis Blvd, E Chicago	1/7/2004	AA20577	9.6	5.4	7.5	625	8	4610658.77	459982.07
			2/18/2004	AA20687	9.8	6.6	7.7	640	7.9	4610658.77	459982.07

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG020-0005	IHC-3W	Indiana Harbor Canal Bridge on Indianapolis Blvd, E Chicago	3/30/2004	AA21242	8.2	15	7.9	650	7.1	4610658.77	459982.07
			4/21/2004	AA21920	7.2	17.1	7.8	625	4.5	4610658.77	459982.07
			5/26/2004	AA22554	7.4	20.3	7.7	664	10.2	4610658.77	459982.07
			6/16/2004	AA23115	8.2	23.7	8	668	7.2	4610658.77	459982.07
			7/19/2004	AA23266	7.7	28.1	8	529	3.4	4610658.77	459982.07
			8/16/2004	AA23688	6.1	26.1	7.8	546	5	4610658.77	459982.07
			9/20/2004	AA24194	6.2	24.8	8	578	3.9	4610658.77	459982.07
				AA24420						4610658.77	459982.07
				AA24769						4610658.77	459982.07
LMG020-0006	LM-W	Lake Michigan Raw Water, Whiting Waterworks	1/7/2004	AA20573						4614146.63	459469.73
			2/18/2004	AA20691						4614146.63	459469.73
			3/30/2004	AA21246						4614146.63	459469.73
			4/21/2004	AA21924						4614146.63	459469.73
			5/26/2004	AA22558						4614146.63	459469.73
			6/16/2004	AA23119						4614146.63	459469.73
			7/19/2004	AA23270						4614146.63	459469.73
			8/16/2004	AA23692						4614146.63	459469.73
			9/20/2004	AA24198						4614146.63	459469.73
				AA24424						4614146.63	459469.73
				AA24773						4614146.63	459469.73
LMG020-0008	LM-EC	Lake Michigan Raw Water, E Chicago Waterworks	1/7/2004	AA20576						4611318.50	463501.56
			2/18/2004	AA20688						4611318.50	463501.56
			3/30/2004	AA21243						4611318.50	463501.56
			4/21/2004	AA21921						4611318.50	463501.56
			5/26/2004	AA22555						4611318.50	463501.56
			6/16/2004	AA23116						4611318.50	463501.56
			7/19/2004	AA23267						4611318.50	463501.56
			8/16/2004	AA23689						4611318.50	463501.56
			9/20/2004	AA24195						4611318.50	463501.56
				AA11232						4611318.50	463501.56
				AA12071						4611318.50	463501.56
				AA13172						4611318.50	463501.56
				AA24421						4611318.50	463501.56
				AA24770						4611318.50	463501.56
LMG020-0009	LM-G	Lake Michigan Raw Water, Northwest Indiana Water Company (Gary), Borman Pk Treatment Plant	1/7/2004	AA20582						4605361.20	471457.75
			2/18/2004	AA20682						4605361.20	471457.75

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG020-0009	LM-G	Lake Michigan Raw Water, Northwest Indiana Water Company (Gary), Borman Pk Treatment Plant	3/30/2004	AA21237						4605361.20	471457.75
			4/22/2004	AA21915						4605361.20	471457.75
			5/26/2004	AA22549						4605361.20	471457.75
			6/17/2004	AA23048						4605361.20	471457.75
			7/20/2004	AA23261						4605361.20	471457.75
			8/17/2004	AA23682						4605361.20	471457.75
			9/21/2004	AA24189						4605361.20	471457.75
				DI33165						4605361.20	471457.75
				AA24415						4605361.20	471457.75
				AA24763						4605361.20	471457.75
LMG020-0010	LM-H	Lake Michigan Raw Water, Hammond Waterworks	1/7/2004	AA20572						4615728.66	457883.65
			2/18/2004	AA20692						4615728.66	457883.65
			3/30/2004	AA21247						4615728.66	457883.65
			4/21/2004	AA21925						4615728.66	457883.65
			5/26/2004	AA22559						4615728.66	457883.65
			6/16/2004	AA23120						4615728.66	457883.65
			7/19/2004	AA23271						4615728.66	457883.65
			8/16/2004	AA23693						4615728.66	457883.65
			9/20/2004	AA24199						4615728.66	457883.65
				AA24425						4615728.66	457883.65
				AA24774						4615728.66	457883.65
LMG020-0011	GCR-37	Grand Calumet River Bridge on Kennedy Ave, E Chicago	1/8/2004	AA20580	10.2	7.5	7.8	487	7.9	4607041.95	461535.72
			2/18/2004	AA20685	11.6	7.1	7.9	488	7.5	4607041.95	461535.72
			3/30/2004	AA21240	8.7	15.3	8	535	8.6	4607041.95	461535.72
			4/22/2004	AA21918	7.7	15.3	7.9	500	9.2	4607041.95	461535.72
			5/26/2004	AA22552	7.1	22.1	7.9	508	6.5	4607041.95	461535.72
			6/17/2004	AA23051	4.9	23.5	7.7	535	7.1	4607041.95	461535.72
			7/19/2004	AA23264	6.1	28.6	7.9	471	3.6	4607041.95	461535.72
			8/17/2004	AA23686	5.4	24.1	7.7	507	7.7	4607041.95	461535.72
			9/20/2004	AA24192	6.7	24.7	8	477	7	4607041.95	461535.72
				AA24417						4607041.95	461535.72
				AA24767						4607041.95	461535.72
LMG020-0012	GCR-42	Grand Calumet River Bridge St Bridge Near US Steel, Gary	1/7/2004	AA20581	11.2	8.2	8	405	8.1	4606419.89	469008.52
			2/18/2004	AA20684	11.4	7.7	8.1	395	7.2	4606419.89	469008.52
			3/30/2004	AA21239	9.6	15	8.2	412	7.3	4606419.89	469008.52
			4/21/2004	AA21917	8.7	17.4	8.1	408	8.7	4606419.89	469008.52

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG020-0012	GCR-42	Grand Calumet River Bridge St Bridge Near US Steel, Gary	5/27/2004	AA22551	7.8	19.6	8.1	379	6.2	4606419.89	469008.52
			6/17/2004	AA23050	7.1	24.4	8.2	400	6.2	4606419.89	469008.52
			7/20/2004	AA23263	6.6	27.3	8	387	3.6	4606419.89	469008.52
			8/17/2004	AA23685	7.1	25.8	8	309	4.7	4606419.89	469008.52
			9/21/2004	AA24191	8	21.2	8	373	7.7	4606419.89	469008.52
				AA24416						4606419.89	469008.52
				AA24765						4606419.89	469008.52
LMG020-0013	LM-OD	Lake Michigan Raw Water, Northwest Indiana Water Company, Ogden Dunes Treatment Plant	1/5/2004	AA20553						4607389.99	483384.08
			2/23/2004	AA20681						4607389.99	483384.08
			3/15/2004	AA21236						4607389.99	483384.08
			4/12/2004	AA21914						4607389.99	483384.08
			5/17/2004	AA22548						4607389.99	483384.08
			6/2/2004	AA23047						4607389.99	483384.08
			7/7/2004	AA23260						4607389.99	483384.08
			8/10/2004	AA23681						4607389.99	483384.08
			9/2/2004	AA24187						4607389.99	483384.08
			10/5/2004	AA24414						4607389.99	483384.08
				AA24761						4607389.99	483384.08
LMG020-0014	WL-SL	Wolf Lake Culvert at State Line Rd at End of 129th St in Hammond	1/8/2004	AA20571	14.1	1.9	8	481	2.4	4612376.39	456314.44
			2/18/2004	AA20693	11.3	2.7	7.9	493	2.9	4612376.39	456314.44
			3/30/2004	AA21248	10.2	12.4	8.5	484	4	4612376.39	456314.44
			4/21/2004	AA21926	9.3	16.5	8.3	483	4.7	4612376.39	456314.44
			5/26/2004	AA22560	10.4	19	8.8	421	3.6	4612376.39	456314.44
			6/16/2004	AA23121	8.6	24.3	8.8	416	3.5	4612376.39	456314.44
			7/19/2004	AA23272	8.7	26.8	8.6	442	9.9	4612376.39	456314.44
			8/16/2004	AA23694	9.3	22.5	8.6	452	26.7	4612376.39	456314.44
			9/21/2004	AA24331	8	19	8.3	427	19.8	4612376.39	456314.44
				AA24426						4612376.39	456314.44
				AA24775						4612376.39	456314.44
LMG030-0008	0	Deep River D/s of dam in Festival Park and Lake George, u/s of gage, Hobart	2/24/2004	AA20862	12.42	0.36	6.38	1153	39.3	4598225.74	478609.71
			9/8/2004	AA23872	8.18	22.79	7.88	665	15.7	4598225.74	478609.71
				AA24624						4598225.74	478609.71
LMG040-0003	BD-3W	Burns Ditch Portage Boat Yard Dock, Portage	1/5/2004	AA20557	12.1	2	7.6	1040	8.6	4605661.78	483912.48
			2/23/2004	AA20677	13.4	2.8	7.8	1290	18.2	4605661.78	483912.48
			3/15/2004	AA21233	11.5	5.8	8	954	19.1	4605661.78	483912.48

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG040-0003	BD-3W	Burns Ditch Portage Boat Yard Dock, Portage	4/12/2004	AA21910	12.2	9.9	8.2	978	17.8	4605661.78	483912.48
			5/17/2004	AA22544	7.5	19.6	7.9	877	29.1	4605661.78	483912.48
			6/2/2004	AA23043	6.7	18.7	7.7	730	39.3	4605661.78	483912.48
			7/7/2004	AA23256	6.7	23.8	8	925	13.4	4605661.78	483912.48
			8/10/2004	AA23678	6.9	22.2	7.7	925	10.6	4605661.78	483912.48
			9/1/2004	AA24184	7	22.9	8.1	631	28.6	4605661.78	483912.48
			10/5/2004	AA24410	8.8	12	7.9	924	10.5	4605661.78	483912.48
				AA01136						4605661.78	483912.48
				AA24758						4605661.78	483912.48
LMG050-0006	SLC-1	Salt Cr US 20 Bridge, Portage	1/5/2004	AA20558	13.3	1.4	7.8	882	9.5	4605345.74	487800.74
			2/23/2004	AA20676	12.3	4.4	7.9	880	16.2	4605345.74	487800.74
			3/15/2004	AA21231	13.2	6.6	8.2	904	6.8	4605345.74	487800.74
			4/12/2004	AA21909	11.6	9.3	8	927	6.8	4605345.74	487800.74
			5/17/2004	AA22543	8.4	18.5	8	865	23.2	4605345.74	487800.74
			6/2/2004	AA23042	7.7	17.3	7.8	705	71.2	4605345.74	487800.74
			7/6/2004	AA23255	7.4	24.4	8.2	815	27.1	4605345.74	487800.74
			8/9/2004	AA23676	8	22.3	8	905	20.3	4605345.74	487800.74
			9/1/2004	AA24183	7.9	21.1	8.1	766	28.4	4605345.74	487800.74
			10/4/2004	AA24409	10.8	12.9	8.1	864	4.1	4605345.74	487800.74
				AA24757						4605345.74	487800.74
LMG050-0007	SLC-17	Salt Cr SR 130 Bridge, Below STP, Near Valparaiso	1/5/2004	AA20559	13.7	3.8	7.7	987	7.1	4594119.72	488175.85
			2/23/2004	AA20675	11.2	4.9	7.8	900	10.1	4594119.72	488175.85
			3/15/2004	AA21230	12.8	8.4	8	950	6.7	4594119.72	488175.85
			4/12/2004	AA21908	12.4	10.4	8.1	921	6.8	4594119.72	488175.85
			5/17/2004	AA22542	8.6	18.4	8.1	900	15.5	4594119.72	488175.85
			6/2/2004	AA23041	8.3	16.8	7.9	766	37.4	4594119.72	488175.85
			7/6/2004	AA23254	7.6	24.8	8.2	875	16.6	4594119.72	488175.85
			8/10/2004	AA23675	8.4	18.4	7.8	1030	14.4	4594119.72	488175.85
			9/1/2004	AA24182	7.7	21.1	8	785	19.1	4594119.72	488175.85
			10/5/2004	AA24408	10.3	10.2	8	940	10.1	4594119.72	488175.85
				AA24756						4594119.72	488175.85
LMG060-0005	BD-2E	Burns Ditch SR 249 Bridge (Crisman R), Portage	1/5/2004	AA20556	11	6.3	7.9	605	7.8	4606768.60	485511.89
			2/23/2004	AA20679	11.4	6.7	8	700	14.8	4606768.60	485511.89
			3/15/2004	AA21234	11.7	9.5	8.2	640	7.1	4606768.60	485511.89
			4/12/2004	AA21912	10.9	12.4	8.2	614	7.4	4606768.60	485511.89
			5/17/2004	AA22545	8.5	20.7	8.1	645	11	4606768.60	485511.89

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG060-0005	BD-2E	Burns Ditch SR 249 Bridge (Crisman R), Portage	6/2/2004	AA23045	7.9	17.7	8	514	56.2	4606768.60	485511.89
			7/7/2004	AA23257	7.2	22.9	8.2	523	9.6	4606768.60	485511.89
			8/10/2004	AA23679	6.5	23.4	7.8	527	8.2	4606768.60	485511.89
			9/1/2004	AA24185	8	23.5	8.1	565	15.5	4606768.60	485511.89
			10/5/2004	AA24412	8.3	16.1	8	546	7.4	4606768.60	485511.89
				AA01135						4606768.60	485511.89
				AA24759						4606768.60	485511.89
LMG060-0007	BD-1	Burns Ditch Portage Public Marina, US Hwy 12	1/5/2004	AA20555	11.5	4.2	7.8	719	7.6	4607416.65	485304.92
			2/23/2004	AA20680	12.3	5.2	7.9	963	12.6	4607416.65	485304.92
			3/15/2004	AA21235	11.6	7.8	8.1	761	12.3	4607416.65	485304.92
			4/12/2004	AA21913	11.3	11.6	8.2	723	11	4607416.65	485304.92
			5/17/2004	AA22546	7.9	20.4	7.9	760	24	4607416.65	485304.92
			6/2/2004	AA23046	7.8	17.9	7.9	513	50.8	4607416.65	485304.92
			7/7/2004	AA23259	7.3	23.8	8.1	670	12.7	4607416.65	485304.92
			8/10/2004	AA23680	6.7	23.3	7.8	579	9	4607416.65	485304.92
			9/1/2004	AA24186	7.7	23.1	8.1	682	21.1	4607416.65	485304.92
			10/5/2004	AA24413	8.2	15.8	8	576	8.2	4607416.65	485304.92
				AA01125						4607416.65	485304.92
				AA24760						4607416.65	485304.92
LMG060-0008	LCR-39	E Br Little Calumet River SR 149, S of US Hwy 12, NW of Porter	1/5/2004	AA20560	13.8	2.4	7.8	845	4	4607255.11	489493.37
			2/23/2004	AA20674	12	3.7	7.9	769	21.9	4607255.11	489493.37
			3/15/2004	AA21229	12.7	5.7	8.2	756	6.8	4607255.11	489493.37
			4/12/2004	AA21907	12.5	9.5	8.1	743	6.4	4607255.11	489493.37
			5/17/2004	AA22541	8.5	18.5	8	804	15.7	4607255.11	489493.37
			6/2/2004	AA23040	6.2	17.2	7.7	473	55	4607255.11	489493.37
			7/6/2004	AA23253	7	23.4	8.2	716	21.8	4607255.11	489493.37
			8/9/2004	AA23674	7.8	22.7	8	774	15.6	4607255.11	489493.37
			9/1/2004	AA24181	7.9	20.1	8	700	32.9	4607255.11	489493.37
			10/4/2004	AA24407	9.7	12.9	8.1	760	6.7	4607255.11	489493.37
				AA24755						4607255.11	489493.37
LMG070-0004	LM-M	Lake Michigan Raw Water, Michigan City Waterworks	1/6/2004	AA20563						4619125.63	508432.99
			2/24/2004	AA20671						4619125.63	508432.99
			3/16/2004	AA21226						4619125.63	508432.99
			4/13/2004	AA21904						4619125.63	508432.99
			5/18/2004	AA22538						4619125.63	508432.99
			6/1/2004	AA23037						4619125.63	508432.99

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG070-0004	LM-M	Lake Michigan Raw Water, Michigan City Waterworks	7/6/2004	AA23250						4619125.63	508432.99
			8/9/2004	AA23671						4619125.63	508432.99
			9/2/2004	AA24178						4619125.63	508432.99
			10/4/2004	AA24404						4619125.63	508432.99
				AA24752						4619125.63	508432.99
LMG070-0005	TC-2	Trail Cr Michigan City, Liberty St Bridge	1/6/2004	AA20565	12.6	0.6	7.7	872	8.4	4618973.91	510327.75
			2/24/2004	AA20668	12.4	2.8	7.9	659	36.7	4618973.91	510327.75
			3/16/2004	AA21223	11.6	4.5	8.1	746	8.4	4618973.91	510327.75
			4/13/2004	AA21901	11.1	6.7	8	712	5.8	4618973.91	510327.75
			5/18/2004	AA22535	7.7	17.4	7.9	794	34.5	4618973.91	510327.75
			6/1/2004	AA23034	7.7	17.5	7.8	536	79.9	4618973.91	510327.75
			7/6/2004	AA23247	7.9	21.8	8.2	704	10.5	4618973.91	510327.75
			8/9/2004	AA23668	9.1	20.4	8	686	5.2	4618973.91	510327.75
			9/2/2004	AA24175	8.4	17.9	8	753	13.3	4618973.91	510327.75
			10/4/2004	AA24402	10	12.7	8.1	671	4	4618973.91	510327.75
				AA24749						4618973.91	510327.75
LMG070-0006	TC-1.3	Trail Cr Walker St, Michigan City	9/8/2004	AA23870	8.14	17.98	7.78	755	5.03	4618355.57	509196.41
				AA24625						4618355.57	509196.41
LMG070-0007	TC-.5	Trail Cr Franklin St Bridge, Michigan City	1/6/2004	AA20562	12.5	0.4	7.8	685	5.9	4619001.72	507947.94
			2/24/2004	AA20861	12.35	3.27	6.92	740	31	4619001.72	507947.94
			2/24/2004	AA20672	12.1	3.3	7.9	730	22.1	4619001.72	507947.94
			3/16/2004	AA21227	11.4	5.5	8	788	10.4	4619001.72	507947.94
			4/13/2004	AA21905	11	8.6	8	762	14.9	4619001.72	507947.94
			5/18/2004	AA22539	7.6	17.5	7.8	781	18.1	4619001.72	507947.94
			6/1/2004	AA23038	7.4	18.9	7.9	517	71.1	4619001.72	507947.94
			7/6/2004	AA23251	7	24.2	8.1	639	9.7	4619001.72	507947.94
			8/9/2004	AA23672	12.2	23.6	8.3	632	4.6	4619001.72	507947.94
			9/2/2004	AA24179	8.1	21.3	8.1	627	4.5	4619001.72	507947.94
			10/4/2004	AA24405	9.5	15.3	8.1	541	9.1	4619001.72	507947.94
				DI28856						4619001.72	507947.94
				DI30990						4619001.72	507947.94
				AA14630						4619001.72	507947.94
				AA24753						4619001.72	507947.94
LMG070-0008	TC-1	Trail Cr US 12 Bridge, Michigan City	1/6/2004	AA20564	12.4	0.4	7.8	746	8.1	4618879.08	508571.91
			2/24/2004	AA20670	12	3.2	7.9	722	23.2	4618879.08	508571.91
			3/16/2004	AA21225	11.7	5.2	8	794	13.8	4618879.08	508571.91

Station ID	Field site#	Site Location	Sample Date	Sample#	Dissolved O2	Water Temp	pH	Spec cond	Turbidity	UTMX NAD83	UTMY NAD83
LMG070-0008	TC-1	Trail Cr US 12 Bridge, Michigan City	4/13/2004	AA21903	11.5	7.7	8	764	10.4	4618879.08	508571.91
			5/18/2004	AA22537	7.4	17.3	7.8	800	21.1	4618879.08	508571.91
			6/1/2004	AA23036	7.4	18.9	7.9	531	77.6	4618879.08	508571.91
			7/6/2004	AA23249	7.6	22.6	8	747	11.9	4618879.08	508571.91
			8/9/2004	AA23670	9.4	22.3	7.9	764	5.5	4618879.08	508571.91
			9/2/2004	AA24177	8.6	18.8	8	783	12.6	4618879.08	508571.91
			10/4/2004	AA24403	10.3	13.9	8.1	665	5.4	4618879.08	508571.91

APPENDIX C

USGS: 2004 Monitoring Data

APPENDIX C					
USGS monitoring data in the Lake Michigan Coastal Program Area from 2004.					
Station name	**Station ID**	**Date**	**Time**	**Parameter**	**Result**
WOLF CK 6320 FT DS OF W300S NR KOUTS IN	412247087081101	7/7/2004	1500	Total carbon, ss mg/L	0.5
			1500	Particulate-N, s mg/L	<0.07
			1500	Organic carbon, mg/L	0.5
			1500	Inorg carbon, ss mg/L	0.1
		8/11/2004	1640	Total carbon, ss mg/L	<0.6
			1640	Particulate-N, s mg/L	0.08
			1640	Organic carbon, mg/L	0.6
			1640	Inorg carbon, ss mg/L	0.1
WEST CK 700 FT US OF OLCOTT AV AT ST JOHN IN	412624087285201	7/7/2004	1140	Total carbon, ss mg/L	0.8
			1140	Particulate-N, s mg/L	0.12
			1140	Organic carbon, mg/L	0.8
			1140	Inorg carbon, ss mg/L	<0.1
		8/11/2004	810	Total carbon, ss mg/L	1.6
			810	Particulate-N, s mg/L	0.26
			810	Organic carbon, mg/L	1.6
			810	Inorg carbon, ss mg/L	<0.1
WEST CK 3750 US OF W223RD AV NR SCHNEIDER IN	411324087300401	6/30/2004	1730	Total carbon, ss mg/L	0.9
			1730	Particulate-N, s mg/L	0.1
			1730	Organic carbon, mg/L	0.9
			1730	Inorg carbon, ss mg/L	<0.1
		8/4/2004	840	Total carbon, ss mg/L	1.2
			840	Particulate-N, s mg/L	<0.11
			840	Organic carbon, mg/L	1.2
			840	Inorg carbon, ss mg/L	0.1
W BR CROOKED CK 230 FT US E200N NR VALPARAISO IN	412750086573301	7/8/2004	1200	Total carbon, ss mg/L	0.4
			1200	Particulate-N, s mg/L	0.05
			1200	Organic carbon, mg/L	0.4
			1200	Inorg carbon, ss mg/L	0.1
		8/12/2004	1020	Total carbon, ss mg/L	<0.4
			1020	Particulate-N, s mg/L	0.03
			1020	Organic carbon, mg/L	0.4
			1020	Inorg carbon, ss mg/L	0.1
UNNAMED TRIB 900 FT US OF USHWY231 NR HEBRON IN	411752087120701	7/1/2004	900	Total carbon, ss mg/L	<0.7
			900	Particulate-N, s mg/L	0.1
			900	Organic carbon, mg/L	0.7
			900	Inorg carbon, ss mg/L	0.1
STONY RUN60 FT US OF IOWA ST NR CROWN POINT IN	412118087182401	7/6/2004	1450	Total carbon, ss mg/L	<0.8
			1450	Particulate-N, s mg/L	0.1
			1450	Organic carbon, mg/L	0.8
			1450	Inorg carbon, ss mg/L	0.1
		8/10/2004	1620	Total carbon, ss mg/L	1.1
			1620	Particulate-N, s mg/L	<0.11
			1620	Organic carbon, mg/L	1.1
			1620	Inorg carbon, ss mg/L	0.1
SINGLETOND 350 FT DS OF USHWY41 NR SCHNEIDER IN	411219087275101	6/30/2004	1520	Total carbon, ss mg/L	2.5
			1520	Particulate-N, s mg/L	0.24
			1520	Organic carbon, mg/L	2.3
			1520	Inorg carbon, ss mg/L	0.1
		8/4/2004	1200	Total carbon, ss mg/L	1.8
			1200	Particulate-N, s mg/L	<0.21
			1200	Organic carbon, mg/L	1.8
			1200	Inorg carbon, ss mg/L	0.1
MILL CK 770 FT US OF LONG LANE NR UNION MILLS IN	412759086453401	7/8/2004	930	Total carbon, ss mg/L	<1.3
			930	Particulate-N, s mg/L	0.16
			930	Organic carbon, mg/L	1.3
			930	Inorg carbon, ss mg/L	0.1
		8/12/2004	810	Total carbon, ss mg/L	0.5
			810	Particulate-N, s mg/L	0.05
			810	Organic carbon, mg/L	0.5
			810	Inorg carbon, ss mg/L	0.1
COLLINS D 3100 FT US OF SR2 NR LA PORTE IN	413841086391401	7/14/2004	910	Total carbon, ss mg/L	0.4
			910	Particulate-N, s mg/L	0.05
			910	Organic carbon, mg/L	0.4
			910	Inorg carbon, ss mg/L	<0.1
COBB D 3220 FT US OF W600S NR KOUTS IN	412122087035901	7/7/2004	1730	Total carbon, ss mg/L	<0.7
			1730	Particulate-N, s mg/L	0.08
			1730	Organic carbon, mg/L	<0.7
			1730	Inorg carbon, ss mg/L	0.1
		8/16/2004	1430	Total carbon, ss mg/L	0.8
			1430	Particulate-N, s mg/L	0.07
			1430	Organic carbon, mg/L	0.8
			1430	Inorg carbon, ss mg/L	0.1
COBB D 3000 FT US OF SR8 NR KOUTS IN	411936087045301	7/8/2004	1530	Total carbon, ss mg/L	<0.8
			1530	Particulate-N, s mg/L	0.06

Station name	Station ID	Date	Time	Parameter	Result
			1530	Organic carbon, mg/L	0.7
			1530	Inorg carbon, ss mg/L	0.1
		8/16/2004	1200	Total carbon, ss mg/L	0.7
			1200	Particulate-N, s mg/L	0.07
			1200	Organic carbon, mg/L	0.7
			1200	Inorg carbon, ss mg/L	<0.1
CADY MARSH D 720 FT DS OF BROAD ST AT GRIFFITH IN	413242087254801	7/7/2004	830	Total carbon, ss mg/L	0.7
			830	Particulate-N, s mg/L	0.1
			830	Organic carbon, mg/L	0.7
			830	Inorg carbon, ss mg/L	0.1
		8/11/2004	1110	Total carbon, ss mg/L	<1.3
			1110	Particulate-N, s mg/L	0.17
			1110	Organic carbon, mg/L	1.3
			1110	Inorg carbon, ss mg/L	0.1
CADY MARSH D 1740FT DS CLEVELANDST AT MERRILLVILLE	413225087220001	7/6/2004	1740	Total carbon, ss mg/L	3.7
			1740	Particulate-N, s mg/L	0.32
			1740	Organic carbon, mg/L	3.7
			1740	Inorg carbon, ss mg/L	<0.1
		8/11/2004	1350	Total carbon, ss mg/L	15.9
			1350	Particulate-N, s mg/L	1.35
			1350	Organic carbon, mg/L	15.7
			1350	Inorg carbon, ss mg/L	0.2

APPENDIX D

ECTF: 2004 Monitoring Data

APPENDIX D

Interagency Task Force on *E. coli* – 2004 monitoring data. *E. coli* values over 235 colony forming units per 100 mL are denoted in red.

Site (Beach)	Date	E. coli (cfu/100mL)
Lake Street 1	5/26/2004	10
	6/1/2004	126
	6/2/2004	**2420**
	6/3/2004	28
	6/4/2004	13
	6/5/2004	108
	6/6/2004	66
	6/7/2004	38
	6/8/2004	**462**
	6/9/2004	105
	6/10/2004	143
	6/11/2004	108
	6/12/2004	47
	6/13/2004	108
	6/14/2004	28
	6/15/2004	33
	6/16/2004	153
	6/17/2004	31
	6/18/2004	78
	6/19/2004	167
	6/20/2004	75
	6/21/2004	33
	6/22/2004	73
	6/23/2004	136
	6/24/2004	**614**
	6/25/2004	47
	6/26/2004	52
	6/27/2004	27
	6/28/2004	29
	6/29/2004	43
	6/30/2004	49
	7/1/2004	**366**
	7/2/2004	78
	7/3/2004	32
	7/4/2004	**489**
	7/5/2004	125
	7/6/2004	23
	7/7/2004	113
	7/8/2004	15
	7/9/2004	13
	7/10/2004	15
	7/11/2004	14
	7/12/2004	38
	7/13/2004	136
	7/14/2004	125
	7/15/2004	37
	7/16/2004	32
	7/17/2004	136
	7/18/2004	124
Lake Street 1	7/19/2004	25
	7/20/2004	34
	7/21/2004	91
	7/22/2004	229
	7/23/2004	**816**
	7/24/2004	96
	7/25/2004	62
	7/26/2004	68
	7/27/2004	59
	7/28/2004	39
	7/29/2004	7
	7/30/2004	12
	7/31/2004	25
	8/1/2004	25
	8/2/2004	72
	8/3/2004	42
	8/4/2004	**326**
	8/5/2004	179
	8/6/2004	20
	8/7/2004	135
	8/8/2004	61
	8/9/2004	24
	8/10/2004	12
	8/11/2004	11
	8/12/2004	18
	8/13/2004	26
	8/14/2004	16
	8/15/2004	39
	8/16/2004	25
	8/17/2004	13
	8/18/2004	111
	8/19/2004	**262**
	8/20/2004	36
	8/21/2004	10
	8/22/2004	32
	8/23/2004	25
	8/24/2004	19
	8/25/2004	37
	8/26/2004	71
	8/27/2004	210
	8/28/2004	**2420**
	8/29/2004	**461**
	8/30/2004	104
	8/31/2004	35
	9/1/2004	16
	9/2/2004	47
	9/3/2004	69
	9/4/2004	105
	9/5/2004	179

Lake Street 1	9/6/2004	110
	9/7/2004	**387**
	9/8/2004	55
	9/9/2004	110
	9/10/2004	22
	9/11/2004	9
	9/12/2004	45
Lake Street 2	5/26/2004	64
	6/1/2004	76
	6/2/2004	33
	6/3/2004	19
	6/4/2004	7
	6/5/2004	22
	6/6/2004	14
	6/7/2004	25
	6/8/2004	185
	6/9/2004	15
	6/10/2004	156
	6/11/2004	42
	6/12/2004	19
	6/13/2004	7
	6/14/2004	6
	6/15/2004	19
	6/16/2004	190
	6/17/2004	11
	6/18/2004	58
	6/19/2004	**687**
	6/20/2004	96
	6/21/2004	8
	6/22/2004	162
	6/23/2004	8
	6/24/2004	10
	6/25/2004	15
	6/26/2004	40
	6/27/2004	7
	6/28/2004	13
	6/29/2004	19
	6/30/2004	10
	7/1/2004	11
	7/2/2004	23
	7/3/2004	48
	7/4/2004	**462**
	7/5/2004	**329**
	7/6/2004	9
	7/7/2004	84
	7/8/2004	22
	7/9/2004	58
	7/10/2004	23
	7/11/2004	65
	7/12/2004	30
Lake Street 2	7/13/2004	10
	7/14/2004	162
	7/15/2004	66
	7/16/2004	5
	7/17/2004	89
	7/18/2004	219
	7/19/2004	51
	7/20/2004	15
	7/21/2004	91
	7/22/2004	**345**
	7/23/2004	**1733**
	7/24/2004	126
	7/25/2004	76
	7/26/2004	74
	7/27/2004	26
	7/28/2004	15
	7/29/2004	37
	7/30/2004	12
	7/31/2004	162
	8/1/2004	63
	8/2/2004	59
	8/3/2004	14
	8/4/2004	**436**
	8/5/2004	150
	8/6/2004	26
	8/7/2004	12
	8/8/2004	32
	8/9/2004	8
	8/10/2004	16
	8/11/2004	6
	8/12/2004	6
	8/13/2004	32
	8/14/2004	15
	8/15/2004	35
	8/16/2004	15
	8/17/2004	15
	8/18/2004	158
	8/19/2004	124
	8/20/2004	35
	8/21/2004	24
	8/22/2004	9
	8/23/2004	16
	8/24/2004	28
	8/25/2004	9
	8/26/2004	30
	8/27/2004	37
	8/28/2004	**366**
	8/29/2004	**488**
	8/30/2004	160
	8/31/2004	26

Lake Street 2	9/1/2004	31
	9/2/2004	75
	9/3/2004	86
	9/4/2004	17
	9/5/2004	37
	9/6/2004	144
	9/7/2004	**272**
	9/8/2004	66
	9/9/2004	73
	9/10/2004	25
	9/11/2004	21
	9/12/2004	10
Marquette Park 1	5/26/2004	37
	6/1/2004	96
	6/2/2004	35
	6/3/2004	8
	6/4/2004	9
	6/5/2004	13
	6/6/2004	11
	6/7/2004	62
	6/8/2004	70
	6/9/2004	24
	6/10/2004	86
	6/11/2004	62
	6/12/2004	37
	6/13/2004	9
	6/14/2004	6
	6/15/2004	27
	6/16/2004	16
	6/17/2004	115
	6/18/2004	30
	6/19/2004	**462**
	6/20/2004	69
	6/21/2004	25
	6/22/2004	146
	6/23/2004	11
	6/24/2004	**518**
	6/25/2004	27
	6/26/2004	134
	6/27/2004	10
	6/28/2004	21
	6/29/2004	14
	6/30/2004	16
	7/1/2004	45
	7/2/2004	99
	7/3/2004	32
	7/4/2004	192
	7/5/2004	66
	7/6/2004	14
	7/7/2004	128
Marquette Park 1	7/8/2004	12
	7/9/2004	36
	7/10/2004	27
	7/11/2004	25
	7/12/2004	22
	7/13/2004	34
	7/14/2004	223
	7/15/2004	32
	7/16/2004	1
	7/17/2004	**366**
	7/18/2004	81
	7/19/2004	21
	7/20/2004	106
	7/21/2004	**345**
	7/22/2004	**518**
	7/23/2004	**1046**
	7/24/2004	68
	7/25/2004	10
	7/26/2004	48
	7/27/2004	44
	7/28/2004	76
	7/29/2004	51
	7/30/2004	65
	7/31/2004	19
	8/1/2004	7
	8/2/2004	48
	8/3/2004	52
	8/4/2004	**436**
	8/5/2004	117
	8/6/2004	20
	8/7/2004	31
	8/8/2004	11
	8/9/2004	74
	8/10/2004	61
	8/11/2004	11
	8/12/2004	14
	8/13/2004	28
	8/14/2004	14
	8/15/2004	35
	8/16/2004	7
	8/17/2004	16
	8/18/2004	36
	8/19/2004	223
	8/20/2004	17
	8/21/2004	15
	8/22/2004	5
	8/23/2004	19
	8/24/2004	19
	8/25/2004	22
	8/26/2004	32

Marquette Park 1	8/27/2004	**411**
	8/28/2004	202
	8/29/2004	**461**
	8/30/2004	196
	8/31/2004	33
	9/1/2004	196
	9/2/2004	144
	9/3/2004	32
	9/4/2004	**345**
	9/5/2004	88
	9/6/2004	152
	9/7/2004	**1553**
	9/8/2004	161
	9/9/2004	133
	9/10/2004	12
	9/11/2004	19
	9/12/2004	59
Marquette Park 2	5/26/2004	37
	6/1/2004	32
	6/2/2004	39
	6/3/2004	19
	6/4/2004	19
	6/5/2004	12
	6/6/2004	8
	6/7/2004	15
	6/8/2004	75
	6/9/2004	16
	6/10/2004	72
	6/11/2004	6
	6/12/2004	41
	6/13/2004	6
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	6/15/2004	5
	6/16/2004	31
	6/17/2004	6
	6/18/2004	20
	6/19/2004	**436**
	6/20/2004	70
	6/21/2004	13
	6/22/2004	179
	6/23/2004	9
	6/24/2004	130
	6/25/2004	32
	6/26/2004	42
	6/27/2004	4
	6/28/2004	8
	6/29/2004	13
	6/30/2004	8
	7/1/2004	3
	7/2/2004	12

Marquette Park 2	7/3/2004	61
	7/4/2004	28
	7/5/2004	67
	7/6/2004	21
	7/7/2004	91
	7/8/2004	68
	7/9/2004	12
	7/10/2004	15
	7/11/2004	11
	7/12/2004	25
	7/13/2004	17
	7/14/2004	134
	7/15/2004	18
	7/16/2004	5
	7/17/2004	229
	7/18/2004	59
	7/19/2004	28
	7/20/2004	15
	7/21/2004	22
	7/22/2004	**649**
	7/23/2004	**1120**
	7/24/2004	82
	7/25/2004	52
	7/26/2004	56
	7/27/2004	11
	7/28/2004	7
	7/29/2004	21
	7/30/2004	27
	7/31/2004	22
	8/1/2004	14
	8/2/2004	53
	8/3/2004	54
	8/4/2004	121
	8/5/2004	89
	8/6/2004	30
	8/7/2004	19
	8/8/2004	7
	8/9/2004	1
	8/10/2004	67
	8/11/2004	31
	8/12/2004	8
	8/13/2004	9
	8/14/2004	10
	8/15/2004	40
	8/16/2004	5
	8/17/2004	3
	8/18/2004	38
	8/19/2004	33
	8/20/2004	17
	8/21/2004	30

Marquette Park 2	8/22/2004	16
	8/23/2004	6
	8/24/2004	15
	8/25/2004	6
	8/26/2004	6
	8/27/2004	136
	8/28/2004	**326**
	8/29/2004	**548**
	8/30/2004	138
	8/31/2004	13
	9/1/2004	11
	9/2/2004	7
	9/3/2004	8
	9/4/2004	18
	9/5/2004	9
	9/6/2004	10
	9/7/2004	**770**
	9/8/2004	17
	9/9/2004	68
	9/10/2004	11
	9/11/2004	11
	9/12/2004	17
Marquette Park 3	5/26/2004	40
	6/1/2004	14
	6/2/2004	16
	6/3/2004	9
	6/4/2004	30
	6/5/2004	19
	6/6/2004	11
	6/7/2004	7
	6/8/2004	6
	6/9/2004	18
	6/10/2004	138
	6/11/2004	7
	6/12/2004	15
	6/13/2004	1
	6/14/2004	5
	6/15/2004	2
	6/16/2004	10
	6/17/2004	1
	6/18/2004	24
	6/19/2004	**489**
	6/20/2004	94
	6/21/2004	15
	6/22/2004	199
	6/23/2004	12
	6/24/2004	30
	6/25/2004	7
	6/26/2004	10
	6/27/2004	1

Marquette Park 3	6/28/2004	11
	6/29/2004	9
	6/30/2004	11
	7/1/2004	1
	7/2/2004	25
	7/3/2004	21
	7/4/2004	204
	7/5/2004	81
	7/6/2004	10
	7/7/2004	38
	7/8/2004	109
	7/9/2004	5
	7/10/2004	14
	7/11/2004	17
	7/12/2004	5
	7/13/2004	2
	7/14/2004	66
	7/15/2004	24
	7/16/2004	2
	7/17/2004	136
	7/18/2004	48
	7/19/2004	9
	7/20/2004	11
	7/21/2004	18
	7/22/2004	**1554**
	7/23/2004	**866**
	7/24/2004	79
	7/25/2004	57
	7/26/2004	45
	7/27/2004	31
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	7/29/2004	6
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	8/1/2004	15
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	8/3/2004	6
	8/4/2004	73
	8/5/2004	72
	8/6/2004	26
	8/7/2004	9
	8/8/2004	8
	8/9/2004	17
	8/10/2004	62
	8/11/2004	41
	8/12/2004	84
	8/13/2004	10
	8/14/2004	2
	8/15/2004	40
	8/16/2004	1

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	8/21/2004	24
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	8/24/2004	10
	8/25/2004	7
	8/26/2004	2
	8/27/2004	44
	8/28/2004	47
	8/29/2004	**326**
	8/30/2004	147
	8/31/2004	12
	9/1/2004	12
	9/2/2004	5
	9/3/2004	6
	9/4/2004	162
	9/5/2004	5
	9/6/2004	11
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	9/8/2004	65
	9/9/2004	52
	9/10/2004	15
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	9/12/2004	3
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	6/1/2004	12
	6/2/2004	15
	6/3/2004	2
	6/4/2004	25
	6/5/2004	14
	6/6/2004	13
	6/7/2004	10
	6/8/2004	28
	6/9/2004	7
	6/10/2004	48
	6/11/2004	7
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	6/16/2004	30
	6/17/2004	9
	6/18/2004	18
	6/19/2004	199
	6/20/2004	99
	6/21/2004	2
	6/22/2004	229

Marquette Park 4	6/23/2004	11
	6/24/2004	13
	6/25/2004	8
	6/26/2004	5
	6/27/2004	1
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	6/29/2004	9
	6/30/2004	3
	7/1/2004	3
	7/2/2004	42
	7/3/2004	31
	7/4/2004	14
	7/5/2004	69
	7/6/2004	13
	7/7/2004	21
	7/8/2004	30
	7/9/2004	21
	7/10/2004	6
	7/11/2004	17
	7/12/2004	4
	7/13/2004	7
	7/14/2004	70
	7/15/2004	16
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	7/17/2004	2
	7/18/2004	120
	7/19/2004	14
	7/20/2004	19
	7/21/2004	2
	7/22/2004	**489**
	7/23/2004	**613**
	7/24/2004	76
	7/25/2004	67
	7/26/2004	51
	7/27/2004	9
	7/28/2004	5
	7/29/2004	6
	7/30/2004	3
	7/31/2004	59
	8/1/2004	56
	8/2/2004	2
	8/3/2004	5
	8/4/2004	126
	8/5/2004	94
	8/6/2004	21
	8/7/2004	1
	8/8/2004	1
	8/9/2004	4
	8/10/2004	48
	8/11/2004	49

Marquette Park 4	8/12/2004	23
	8/13/2004	13
	8/14/2004	6
	8/15/2004	45
	8/16/2004	7
	8/17/2004	6
	8/18/2004	29
	8/19/2004	33
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	8/21/2004	4
	8/22/2004	6
	8/23/2004	6
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	8/26/2004	5
	8/27/2004	18
	8/28/2004	16
	8/29/2004	**276**
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	9/4/2004	4
	9/5/2004	5
	9/6/2004	9
	9/7/2004	160
	9/8/2004	23
	9/9/2004	64
	9/10/2004	11
	9/11/2004	11
	9/12/2004	6
Wells Street	5/26/2004	27
	6/1/2004	11
	6/2/2004	11
	6/3/2004	7
	6/4/2004	36
	6/5/2004	25
	6/6/2004	11
	6/7/2004	10
	6/8/2004	33
	6/9/2004	9
	6/10/2004	96
	6/11/2004	38
	6/12/2004	23
	6/13/2004	19
	6/14/2004	2
	6/15/2004	3
	6/16/2004	70
	6/17/2004	9
Wells Street	6/18/2004	29
	6/19/2004	**366**
	6/20/2004	53
	6/21/2004	4
	6/22/2004	196
	6/23/2004	10
	6/24/2004	44
	6/25/2004	22
	6/26/2004	19
	6/27/2004	9
	6/28/2004	14
	6/29/2004	18
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	7/2/2004	162
	7/3/2004	24
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	7/5/2004	64
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	7/11/2004	11
	7/12/2004	5
	7/13/2004	99
	7/14/2004	82
	7/15/2004	24
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	7/17/2004	11
	7/18/2004	83
	7/19/2004	24
	7/20/2004	22
	7/21/2004	5
	7/22/2004	166
	7/23/2004	**1986**
	7/24/2004	68
	7/25/2004	55
	7/26/2004	47
	7/27/2004	8
	7/28/2004	17
	7/29/2004	5
	7/30/2004	3
	7/31/2004	15
	8/1/2004	51
	8/2/2004	14
	8/3/2004	14
	8/4/2004	186
	8/5/2004	89
	8/6/2004	35

Wells Street	8/7/2004	16
	8/8/2004	16
	8/9/2004	16
	8/10/2004	78
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	8/12/2004	35
	8/13/2004	25
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	8/16/2004	10
	8/17/2004	21
	8/18/2004	11
	8/19/2004	35
	8/20/2004	33
	8/21/2004	6
	8/22/2004	14
	8/23/2004	48
	8/24/2004	9
	8/25/2004	2
	8/26/2004	87
	8/27/2004	22
	8/28/2004	30
	8/29/2004	**411**
	8/30/2004	172
	8/31/2004	13
	9/1/2004	44
	9/2/2004	4
	9/3/2004	81
	9/4/2004	14
	9/5/2004	22
	9/6/2004	17
	9/7/2004	179
	9/8/2004	50
	9/9/2004	101
	9/10/2004	11
	9/11/2004	5
	9/12/2004	9
Mount Baldy	5/26/2004	112
	6/1/2004	**817**
	6/2/2004	173
	6/3/2004	115
	6/4/2004	23
	6/7/2004	24
	6/8/2004	102
	6/9/2004	8
	6/10/2004	**489**
	6/11/2004	13
	6/14/2004	27
	6/15/2004	76
	6/16/2004	11
Mount Baldy	6/17/2004	11
	6/18/2004	**614**
	6/19/2004	105
	8/16/2004	10
	8/17/2004	128
	8/18/2004	9
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	8/20/2004	14
	8/23/2004	10
	8/24/2004	7
	8/25/2004	3
	8/26/2004	19
	8/27/2004	142
	8/30/2004	70
	8/31/2004	6
	9/1/2004	7
	9/2/2004	2
Central	5/26/2004	5
	6/1/2004	199
	6/2/2004	28
	6/3/2004	79
	6/4/2004	28
	6/7/2004	53
	6/8/2004	69
	6/9/2004	45
	6/10/2004	46
	6/11/2004	157
	6/14/2004	4
	6/15/2004	2
	6/16/2004	15
	6/17/2004	8
	6/18/2004	89
	8/16/2004	7
	8/17/2004	6
	8/18/2004	8
	8/19/2004	161
	8/20/2004	5
	8/23/2004	15
	8/24/2004	18
	8/25/2004	25
	8/26/2004	**249**
	8/27/2004	114
	8/30/2004	78
	8/31/2004	12
	9/1/2004	3
	9/2/2004	1
Lakeview	5/26/2004	24
	6/1/2004	147
	6/2/2004	150
	6/3/2004	26

Lakeview	6/4/2004	28
	6/7/2004	14
	6/8/2004	**236**
	6/9/2004	65
	6/10/2004	**299**
	6/11/2004	16
	6/14/2004	5
	6/15/2004	6
	6/16/2004	22
	6/17/2004	3
	6/18/2004	13
	6/21/2004	16
	6/22/2004	145
	6/23/2004	32
	6/24/2004	118
	6/25/2004	10
	6/28/2004	122
	6/29/2004	14
	6/30/2004	11
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	7/2/2004	23
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	7/8/2004	30
	7/9/2004	14
	7/12/2004	35
	7/13/2004	2
	7/14/2004	134
	7/15/2004	65
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	7/19/2004	11
	7/20/2004	18
	7/21/2004	32
	7/22/2004	179
	7/23/2004	**276**
	7/26/2004	6
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	7/29/2004	8
	7/30/2004	19
	8/2/2004	33
	8/3/2004	10
	8/4/2004	**239**
	8/5/2004	157
	8/6/2004	**866**
	8/9/2004	15
	8/10/2004	56
	8/11/2004	13
	8/12/2004	15
	8/13/2004	29
Lakeview	8/16/2004	5
	8/17/2004	56
	8/18/2004	11
	8/19/2004	60
	8/20/2004	27
	8/23/2004	24
	8/24/2004	24
	8/25/2004	34
	8/26/2004	231
	8/27/2004	**436**
	8/28/2004	57
	8/30/2004	88
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	9/2/2004	6
Dunbar	5/26/2004	5
	6/1/2004	94
	6/2/2004	34
	6/3/2004	38
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	6/16/2004	14
	6/17/2004	11
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	6/21/2004	24
	6/22/2004	207
	6/23/2004	11
	6/24/2004	99
	6/25/2004	19
	6/28/2004	65
	6/29/2004	6
	6/30/2004	24
	7/1/2004	26
	7/2/2004	231
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	7/9/2004	26
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	7/13/2004	9
	7/14/2004	116
	7/15/2004	30
	7/16/2004	17
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Dunbar	7/20/2004	24
	7/21/2004	34
	7/22/2004	74
	7/23/2004	**649**
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	8/3/2004	11
	8/4/2004	**261**
	8/5/2004	179
	8/6/2004	118
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	8/16/2004	**2420**
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	8/18/2004	16
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	8/20/2004	48
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	8/26/2004	8
	8/27/2004	122
	8/30/2004	88
	8/31/2004	21
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	9/2/2004	12
Kemil Road	5/26/2004	6
	6/1/2004	153
	6/2/2004	22
	6/3/2004	36
	6/4/2004	18
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	6/21/2004	19
	6/22/2004	**727**

Kemil Road	6/23/2004	2
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	6/25/2004	7
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	7/22/2004	21
	7/23/2004	**326**
	7/24/2004	34
	7/26/2004	28
	7/27/2004	15
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	7/29/2004	18
	7/30/2004	96
	8/2/2004	21
	8/3/2004	21
	8/4/2004	**388**
	8/5/2004	219
	8/6/2004	86
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	8/19/2004	40
	8/20/2004	47
	8/23/2004	7
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	8/25/2004	1
	8/26/2004	2
	8/27/2004	27
	8/30/2004	115
	8/31/2004	14

Kemil Road	9/1/2004	7
	9/2/2004	4
Porter Beach	5/26/2004	7
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	6/7/2004	21
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	6/10/2004	41
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	6/23/2004	28
	6/24/2004	185
	6/25/2004	10
	6/28/2004	**436**
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	7/8/2004	14
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	7/19/2004	34
	7/20/2004	6
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	7/22/2004	28
	7/23/2004	**1203**
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	7/26/2004	22
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	7/29/2004	26
	7/30/2004	26
	8/2/2004	22
	8/3/2004	18
	8/4/2004	**261**
Porter Beach	8/5/2004	**727**
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	6/27/2004	4
	6/28/2004	**548**
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	7/15/2004	40
	7/16/2004	8
	7/17/2004	33
	7/18/2004	207
	7/19/2004	18
	7/20/2004	12

Porter Beach	7/21/2004	9
	7/22/2004	35
	7/23/2004	**727**
	7/24/2004	72
	7/25/2004	66
	7/26/2004	27
	7/27/2004	28
	7/28/2004	4
	7/29/2004	58
	7/30/2004	123
	7/31/2004	126
	8/1/2004	78
	8/2/2004	7
	8/3/2004	5
	8/4/2004	111
	8/5/2004	99
	8/6/2004	40
	8/7/2004	6
	8/8/2004	2
	8/9/2004	14
	8/10/2004	99
	8/11/2004	40
	8/12/2004	22
	8/13/2004	15
	8/14/2004	24
	8/15/2004	56
West Beach 2	5/26/2004	38
	6/1/2004	9
	6/2/2004	6
	6/3/2004	7
	6/4/2004	80
	6/7/2004	10
	6/8/2004	29
	6/9/2004	25
	6/10/2004	179
	6/11/2004	11
	6/14/2004	4
	6/15/2004	10
	6/16/2004	35
	6/17/2004	13
	6/18/2004	25
	6/21/2004	7
	6/22/2004	67
	6/23/2004	30
	6/24/2004	102
	6/25/2004	23
	6/26/2004	73
	6/27/2004	1
	6/28/2004	199
	6/29/2004	15

West Beach 2	6/30/2004	7
	7/1/2004	**366**
	7/2/2004	118
	7/3/2004	16
	7/4/2004	11
	7/5/2004	42
	7/6/2004	24
	7/7/2004	16
	7/8/2004	16
	7/9/2004	13
	7/10/2004	11
	7/11/2004	27
	7/12/2004	15
	7/13/2004	5
	7/14/2004	**548**
	7/15/2004	29
	7/16/2004	8
	7/17/2004	25
	7/18/2004	**462**
	7/19/2004	25
	7/20/2004	26
	7/21/2004	16
	7/22/2004	48
	7/23/2004	**1203**
	7/24/2004	70
	7/25/2004	82
	7/26/2004	50
	7/27/2004	19
	7/28/2004	1
	7/29/2004	24
	7/30/2004	140
	7/31/2004	**261**
	8/1/2004	28
	8/2/2004	2
	8/3/2004	6
	8/4/2004	157
	8/5/2004	167
	8/6/2004	93
	8/7/2004	93
	8/8/2004	31
	8/9/2004	8
	8/10/2004	111
	8/11/2004	38
	8/12/2004	13
	8/13/2004	26
	8/14/2004	22
	8/15/2004	26
	8/16/2004	2
	8/17/2004	6
	8/18/2004	32

West Beach 2	8/19/2004	83
	8/20/2004	31
	8/23/2004	6
	8/24/2004	11
	8/25/2004	10
	8/26/2004	6
	8/27/2004	53
	8/30/2004	179
	8/31/2004	13
	9/1/2004	11
	9/2/2004	10
	6/21/2004	2
	6/22/2004	79
	6/23/2004	10
	6/24/2004	23
	6/25/2004	23
	6/26/2004	28
	6/27/2004	15
	6/28/2004	35
	6/29/2004	14
	6/30/2004	4
	7/1/2004	32
	7/2/2004	28
	7/3/2004	6
	7/4/2004	16
	7/5/2004	99
	7/6/2004	9
	7/7/2004	19
	7/8/2004	24
	7/9/2004	9
	7/10/2004	9
	7/11/2004	36
	7/12/2004	13
	7/13/2004	6
	7/14/2004	79
	7/15/2004	19
	7/16/2004	2
	7/17/2004	32
	7/18/2004	**281**
	7/19/2004	15
	7/20/2004	7
	7/21/2004	11
	7/22/2004	37
	7/23/2004	**1046**
	7/24/2004	71
	7/25/2004	99
	7/26/2004	42
	7/27/2004	15
	7/28/2004	3
	7/29/2004	82

West Beach 2	7/30/2004	105
	7/31/2004	225
	8/1/2004	30
	8/2/2004	7
	8/3/2004	225
	8/4/2004	71
	8/5/2004	156
	8/6/2004	93
	8/7/2004	17
	8/8/2004	1
	8/9/2004	16
	8/10/2004	96
	8/11/2004	34
	8/12/2004	16
	8/13/2004	25
	8/14/2004	29
	8/15/2004	70
	6/14/2004	**489**
	6/15/2004	186
	6/16/2004	**462**
	6/17/2004	88
	6/18/2004	**291**
	6/21/2004	**276**
	6/22/2004	126
	6/23/2004	66
	6/24/2004	**614**
	6/25/2004	219
	6/26/2004	140
	6/27/2004	187
	6/28/2004	30
	6/29/2004	**308**
	6/30/2004	215
	7/1/2004	173
	7/2/2004	173
	7/3/2004	157
	7/4/2004	**1300**
	7/5/2004	**1414**
	7/6/2004	192
	7/7/2004	**345**
	7/8/2004	167
	7/9/2004	197
	7/10/2004	210
	7/11/2004	225
	7/12/2004	173
	7/13/2004	**276**
	7/14/2004	**411**
	7/15/2004	199
	7/16/2004	130
	7/17/2004	**2420**
	7/18/2004	**817**

West Beach 2	7/19/2004	67
	7/20/2004	192
	7/21/2004	186
	7/22/2004	**2420**
	7/23/2004	**501**
	7/24/2004	**867**
	7/25/2004	**291**
	7/26/2004	**236**
	7/27/2004	**411**
	7/28/2004	167
	7/29/2004	**249**
	7/30/2004	210
	7/31/2004	**345**
	8/1/2004	179
	8/2/2004	185
	8/3/2004	158
	8/4/2004	**518**
	8/5/2004	**1414**
	8/6/2004	225
	8/7/2004	99
	8/8/2004	96
	8/9/2004	91
	8/10/2004	202
	8/11/2004	105
	8/12/2004	106
	8/13/2004	**388**
	8/14/2004	**687**
	8/15/2004	**326**
IDSP East	5/26/2004	130
	6/1/2004	**1120**
	6/2/2004	**299**
	6/3/2004	29
	6/7/2004	117
	6/8/2004	67
	6/9/2004	31
	6/10/2004	34
	6/14/2004	74
	6/15/2004	116
	6/16/2004	121
	6/17/2004	105
	6/21/2004	52
	6/22/2004	**770**
	6/23/2004	26
	6/24/2004	89
	6/25/2004	8
	6/28/2004	35
	6/29/2004	67
	6/30/2004	31
	7/1/2004	62
	7/6/2004	15
IDSP East	7/7/2004	**817**
	7/8/2004	19
	7/12/2004	**291**
	7/13/2004	49
	7/14/2004	132
	7/15/2004	22
	7/19/2004	9
	7/20/2004	117
	7/21/2004	39
	7/22/2004	**1414**
	7/23/2004	122
	7/26/2004	23
	7/27/2004	4
	7/28/2004	56
	7/29/2004	94
	8/2/2004	194
	8/3/2004	45
	8/4/2004	116
	8/5/2004	173
	8/9/2004	33
	8/10/2004	23
	8/11/2004	24
	8/12/2004	10
	8/16/2004	15
	8/17/2004	54
	8/18/2004	130
	8/19/2004	45
	8/23/2004	99
	8/24/2004	6
	8/25/2004	69
	8/26/2004	**2420**
	8/27/2004	**273**
	8/28/2004	54
	8/30/2004	73
	8/31/2004	50
	9/1/2004	14
	9/2/2004	**248**
	9/3/2004	91
IDSP West	5/26/2004	5
	6/1/2004	9
	6/2/2004	46
	6/3/2004	91
	6/7/2004	8
	6/8/2004	24
	6/9/2004	8
	6/10/2004	102
	6/14/2004	23
	6/15/2004	13
	6/16/2004	14
	6/17/2004	41

IDSP West	6/21/2004	32
	6/22/2004	153
	6/23/2004	8
	6/24/2004	**249**
	6/25/2004	41
	6/28/2004	**345**
	6/29/2004	31
	6/30/2004	9
	7/1/2004	20
	7/6/2004	19
	7/7/2004	**250**
	7/8/2004	24
	7/12/2004	219
	7/13/2004	21
	7/14/2004	**273**
	7/15/2004	31
	7/19/2004	61
	7/20/2004	22
	7/21/2004	27
	7/22/2004	35
	7/23/2004	162
	7/26/2004	22
	7/27/2004	86
	7/28/2004	26
	7/29/2004	10
	8/2/2004	78
	8/3/2004	50
	8/4/2004	**462**
	8/5/2004	**262**
	8/6/2004	91
	8/9/2004	**580**
	8/10/2004	31
	8/11/2004	47
	8/12/2004	32
	8/16/2004	10
	8/17/2004	24
	8/18/2004	15
	8/19/2004	48
	8/23/2004	18
	8/24/2004	14
	8/25/2004	11
	8/26/2004	51
	8/30/2004	111
	8/31/2004	49
	9/1/2004	40
	9/2/2004	7

APPENDIX E

IDNR: 2004 Monitoring Data

APPENDIX E

IDNR Division of Fisheries – 2004 monitoring data.

Stream	Site	Date	Time H2O Sample	Water Temp. ˚C	D.O.	Cond (uS)	pH	Alk (mg/l CaCO3)	TDS	PO4 (mg/L)	NO3 (mg/L)	NH3 (mg/L)
Burns Ditch	Burns Ditch (0.9 mile upstream confluence)	9/21/2004	10:15:00 AM	20	7	940	8.2	280	620	0.09	0	0
Willow Creek	Central Avenue	8/31/2004	11:30:00 AM	18	7	1160	8	340	760	0	1.58	0
Willow Creek	Evergreen Avenue	8/31/2004	9:15:00 AM	17	7.5	1030	8	320	680	0	3.8	0.000372
Willow Creek	U.S. 20	8/5/2004	9:00:00 AM	19	9	820	8.4	200	540	0.58	0.35	0
Deep River	Ridge Road (U.S. 6)	9/29/2004	10:30:00 AM	18.5	5	860	8.5	260	580	1.5	0	0
Deep River	N. Ripley Street	8/3/2004	9:00:00 AM	26	6	820	8.6	260	530	0.02	0	0
Deep River	Liverpool Road	9/14/2004	10:00:00 AM	22.5	7	760	8.2	260	490	0	0	0
Burns Ditch	Burns Ditch (1.27 mile upstream U.S. 51)	9/17/2004	10:15:00 AM	21	5.5	880	8	240	580	0.28	0	0
Hart Ditch	Hart Ditch (Wicker Park)	9/15/2004	9:30:00 AM	22	5	1450	7.8	300	960	0.85	> 1.0	0
W. Branch LCR	Catalpa Avenue	10/7/2004	9:45:00 AM	12.5	8	1400	8	300	960	4.3 (mg/l P)	0	0
Salt Creek	U.S. 6	7/29/2004	9:00:00 AM	19	8	950	8.6	n/a	620	0	0.57	0
Salt Creek	500 North	7/27/2004	10:00:00 AM	17	9	1070	8.3	240	630	0.1	0.54	0

APPENDIX F
PARAMETERS AVAILABLE FOR ANALYSIS

IDEM/AIMS PARAMETER	PARAMETER
4,4'-DDT	Heptachlor
Acetochlor	Heptachlor Epoxide
Alachlor	Hexachlorobenzene
Alkalinity (as CaCO3)	Hexachlorocyclopentadiene
Aluminum (Dissolved)	Iron (Dissolved)
Aluminum (Total)	Iron (Total)
Arsenic (Dissolved)	Lead (Dissolved)
Arsenic (Total)	Lead (Total)
Atrazine	Manganese (Dissolved)
Barium (Dissolved)	Manganese (Total)
Barium (Total)	Mercury (Total)
Benzo[a]pyrene	Methoxychlor
BHC, Gamma- (Lindane)	Metolachlor
Biochemical Oxygen Demand (Total) 5-day	Nickel (Dissolved)
Cadmium (Dissolved)	Nickel (Total)
Cadmium (Total)	Nitrogen (Total) Kjeldahl
Calcium (as CaCO3)	Nitrogen, Ammonia
Chemical Oxygen Demand	Nitrogen, Nitrate+Nitrite
Chlordane, Alpha-	Nonachlor, cis-
Chlordane, Gamma-	Oxychlordane
Chloride	Pendimethalin
Chlorpyrifos	Pentachlorophenol
Chromium (Total Dissolved)	pH
Chromium (Total)	Phosphorus, Total
Chromium, Hexavalent	Selenium (Dissolved)
Clomazone	Selenium (Total)
Coliform, E.coli	Silica (Molybdate Reactive)
Copper (Dissolved)	Silver (Total)
Copper (Total)	Simazine
Cyanazine	Sodium
Cyanide (Chlorine Amenable)	Solids (Total) Residue
Cyanide (Free)	Solids, Filterable Residue
Cyanide (Total)	Solids, Non-filterable Residue
Desethylatrazine	Sulfate
Desisopropylatrazine	Terbufos
Di(2-ethylhexyl)adipate	Total Organic Carbon
Di(2-ethylhexyl)phthalate	trans-Nonachlor
Endrin	Zinc (Dissolved)
Fluoride	Zinc (Total)
Hardness (as CaCO3)	

Monitoring parameters for IDEM/AIMS (field monitoring program), ECTF, and IDNR Division of Fish and Wildlife.

IDEM/AIMS Field Parameters

Dissolved Oxygen
Water Temperature (°C)
Saturation Percent
pH
Specific Conductivity
Turbidity

ECTF Parameters

E. coli load (cfu/100mL)
Comments on weather conditions

IDNR F&W Parameters

Water Temperature (°C)
Dissolved Oxygen
Specific Conductivity (uS)
pH
Alkalinity (mg CaCO3)
Total Dissolved Solids
PO4 (mg/L)
NO3 (mg/L)
NH3 (mg/L)

Biotic Parameters (USGS)

Amphipods
Black flies
Blue-green algae
BOD, 30 day, 20 mg/L
BOD, 5 day, 20 d mg/L
Caddis flies
CEAT, wf ug/L
CIAT, wf ug/L
Coccoid blue-gre
COD, hi level, w mg/L
COD, low level, mg/L
Crane flies
Crawling-water b
Crayfish
Crustaceans
Cryptomonads
Diatoms
DNOC, wu ug/L
Dragonflies
Euglenoids
Fingernail clams
Fire algae
Flatworms
Freshwater limpe
Freshwater/land
Giant water bugs
Green algae
Leeches
LOI, from ROE, w mg/L
May flies
MBAS, wu mg/L
Megalopterans
Midges
Orb snails
Pond snails
Predaceous divin
Riffle beetles
ROE @ 105C, wf mg/L
Springtails
Stoneflies
Water boatmen
Whirligig beetle
Yellow-brown algae

Station info parameters

Depth of well feet
Depth to bottom feet
Depth To Bottom Sample In feet
Drainage area square miles
Gage height feet
Land surface altitude feet
Location in X-sec, feet
Sample volume liters
Sampler type code
Sampling depth feet
Sampling method code
Stream width feet
Water level, DTW feet
Conversion factor number

Chemical and physical parameters (USGS)

124-Trichloroben ug/L
12Dichlorobenzen ug/L
13Dichlorobenzen ug/L
14Dichlorobenzen ug/L
2,4-Dichlorophen ug/L
2,4Dimethylpheno ug/L
2,4-Dinitropheno ug/L
2,4Dinitrotoluen ug/L
2,6Dinitrotoluen ug/L
246-Trichlorophe ug/L
2Chloroethoxymet ug/L
2Chloroethylethe ug/L
2-Chloronaphthal ug/L
2-Chlorophenol, ug/L
2Ethylhexylphtha ug/L
2-Nitrophenol, w ug/L
4Bromodiphenyl e ug/L
4Chloro3methylph ug/L
4Chlorodiphenyle ug/L
4-Nitrophenol, w ug/L
9H-Fluorene, wu ug/L
Acenaphthene, wu ug/L
Acenaphthylene, ug/L
Acidity, heated, mg/L as CaCO3
Acidity, heated, mg/L as H
Acidity, wu mg/L as CaCO3
Air pressure mm of Hg
Alachlor, wf ug/L
Aldrin, bs ug/kg
Aldrin, wu ug/L
Alkalinity, wf,i mg/L as CaCO3
Alkalinity,wf,fx mg/L as CaCO3
alpha-Endosulfan ug/L
alpha-HCH, wu ug/L
Bed sediment <63u, percent
Bed sediment <8mm, percent
Benthic inv., as g/m2
Benthic inv., dr g/m2
Benthic inv., we g/m2
Benthic inverts, organisms/m2
Benz[a
Benz[ghi
Benzo[a
Benzo[b
Benzo[k
Beryllium, bs,re ug/g
Beryllium, ss,re ug/L
Beryllium, w,f ug/L
Beryllium, wu,re ug/L
beta-Endosulfan, ug/L
beta-HCH, wu ug/L
Bicarbonate, wu, mg/L
Bicarbonate,wu,i mg/L
Bio/Chl ratio, p ratio
Biomass, peri, d g/m2
Biomass, peri,as g/m2
Boron, bs,rec ug/g
Boron, ss,rec ug/L
Boron, wf ug/L
Boron, wu,rec ug/L
Bromide, wf mg/L
Butylbenzylphtha ug/L
Cadmium, bs,rec ug/g
Cadmium, ss,rec ug/L
Cadmium, wf ug/L
Cadmium, wu ug/L
Calcium, wf mg/L
Calcium, wu,rec mg/L
Dieldrin, wu ug/L
Diethyl phthalat ug/L
DimethylPhthalat ug/L
Dioctyl phthalat ug/L
Discharge cfs
Discharge, insta cfs
Diss oxygen,%sat % of saturation
Dissolved oxygen mg/L
E. coli, m-TEC, colonies/100mL
EndosulfanSulfat ug/L
Endrin aldehyde, ug/L
Endrin ketone, w ug/L
Endrin, bs ug/kg
Endrin, wu ug/L
Ethion, bs ug/kg
Fecal coliforms, colonies/100mL
Fecal strep, m-e colonies/100mL
Fecal strep., KF colonies/100mL
Fluoranthene, wu ug/L
Fluoride, wf mg/L
Fluoride, wu mg/L
Gross alpha,ss,U pCi/L
Gross alpha,ss,U ug/L
Gross alpha,wf,U pCi/L
Gross alpha,wf,U ug/L
Gross beta, ss,C pCi/L
Gross beta, wf,C pCi/L
Gross beta,ss,Sr pCi/L
Gross beta,wf,Sr pCi/L
Hardness, water mg/L as CaCO3
Hardness,NonCarb mg/L as CaCO3
HCO3, wf,fixEP,f mg/L
Heptachlor, bs ug/kg
Heptachlor, wu ug/L
Mercury, wu, rec ug/L
Methyl parathion ug/kg
Methyl trithion, ug/kg
Methylmercury, w ng/L
Methylmercury,ss ng/L
Metolachlor, wf ug/L
Metribuzin, wf ug/L
Molybdenum, bs,r ug/g
Molybdenum, ss,r ug/L
Molybdenum, wf ug/L
Molybdenum, wu,r ug/L
Naphthalene, wu ug/L
NH3 (un-ionized) mg/L as N
NH3+orgN, ss,tot mg/L as N
NH3+orgN, wf mg/L as N
NH3+orgN, wu mg/L as N
Nickel, bs,rec ug/g
Nickel, ss,rec ug/L
Nickel, wf ug/L
Nickel, wu,rec ug/L
Nitrate, wf mg/L
Nitrate, wf mg/L as N
Nitrate, wu mg/L
Nitrate, wu mg/L as N
Nitrite, wf mg/L
Nitrite, wf mg/L as N
Nitrite, wu mg/L
Nitrite, wu mg/L as N
Nitrobenzene, wu ug/L
Nitrosodimethyla ug/L
Nitrosodiphenyla ug/L
Nitrosodipropyla ug/L
No. of sampling count
NO2+NO3, wf mg/L as N
Plankton biomass mg/L
Potassium, wf mg/L
Potassium, wu,re mg/L
Project number number
Prometon, wf ug/L
Prometryn, wf ug/L
Propazine, wf ug/L
Pyrene, wu ug/L
Redox potential millivolts
Residue, ROE@180 mg/L
Residue, total mg/L
Residue, volatil mg/L
Residue, wf tons/ac-ft
Residue, wf tons/day
Residue, wf, sum mg/L
Selenium, bs,tot ug/g
Selenium, ss,tot ug/L
Selenium, wf ug/L
Selenium, wu ug/L
Silica, wf mg/L
Silver, ss,rec ug/L
Silver, wf ug/L
Silver, wu,rec ug/L
Simazine, wf ug/L
Sodium Adsrptn R ratio
Sodium, w percent
Sodium, wf mg/L
Sodium, wu,rec mg/L
Sodium+Potassium mg/L as Na
SpecCond,wu25deg uS/cm @ 25C
Specific cond at uS/cm @ 25C
Strontium, bs,re ug/g
Strontium, ss,re ug/L
Strontium, wf ug/L

Chemical and physical parameters (USGS)

Aluminum, bs,rec ug/g
Aluminum, ss,rec ug/L
Aluminum, wf ug/L
Aluminum, wu,rec ug/L
Ametryn, wf ug/L
Ammonia, wf mg/L as N
Ammonia, wf mg/L as NH4
Ammonia, wu mg/L as N
Ammonia, wu mg/L as NH4
ANC, wu,fxdEP,fl mg/L as CaCO3
ANC, wu,fxdEP,la mg/L as CaCO3
ANC, wu,icr,fld mg/L as CaCO3
Anthracene, wu ug/L
Antimony, wf ug/L
Aroclor 1016, wu ug/L
Aroclor 1221, wu ug/L
Aroclor 1232, wu ug/L
Aroclor 1242, wu ug/L
Aroclor 1248, wu ug/L
Aroclor 1254, wu ug/L
Aroclor 1260, wu ug/L
Arsenic, bs,tot ug/g
Arsenic, ss, tot ug/L
Arsenic, wf ug/L
Arsenic, wu ug/L
Atrazine, wf ug/L
Bacteria,total c cells/mL
Barium, bs,rec ug/g
Barium, ss,rec ug/L
Barium, wf ug/L
Barium, wu,rec ug/L
Bed sediment <0.5m percent
Bed sediment <125u percent
Bed sediment <16mm percent
Bed sediment <1mm, percent
Carbon dioxide,w mg/L
Carbonate,wu,fxd mg/L
Carbonate,wu,icr mg/L
Carbophenothion, ug/kg
Chlordane (tech) ug/kg
Chlordane (tech) ug/L
Chloride, wf mg/L
Chloride, wu mg/L
Chloro a, peri, mg/m2
Chloro a, phyto, ug/L
Chloro b, peri, mg/m2
Chloroisopropyle ug/L
Chromium(VI), wf ug/L
Chromium, bs,rec ug/g
Chromium, ss,rec ug/L
Chromium, wf ug/L
Chromium, wu,rec ug/L
Chrysene, wu ug/L
CO3, wf,fixEP,fl mg/L
Cobalt, bs,rec ug/g
Cobalt, ss,rec ug/L
Cobalt, wf ug/L
Cobalt, wu,rec ug/L
Color platinum-cobalt
Copper, bs,rec ug/g
Copper, ss,rec ug/L
Copper, wf ug/L
Copper, wu,rec ug/L
Cyanazine, wf ug/L
Cyanide, bs,tot ug/g
Cyanide, free, w mg/L
Cyanide, wf mg/L
Cyanide, wu mg/L
Cyanide, wu,EPA mg/L
delta-HCH, wu ug/L
HeptachlorEpoxid ug/kg
HeptachlorEpoxid ug/L
Hexachlorobenzen ug/L
Hexachlorobutadi ug/L
Hexachloroethane ug/L
HexClCyclopentad ug/L
Indenopyrene, wu ug/L
Inorg carbon, ss mg/L
Inorganic carbon g/kg
Inorganic carbon mg/L
Iodide, wf mg/L
Iron, bs,tot ug/g
Iron, ss,rec ug/L
Iron, wf ug/L
Iron, wu ug/L
Iron, wu,rec ug/L
Isophorone, wu ug/L
K-40, wf pCi/L
K-40, wu pCi/L
Lead, bs,rec ug/g
Lead, ss,rec ug/L
Lead, wf ug/L
Lead, wu,rec ug/L
Light intensity, uEinst/m2/sec
Lindane, bs ug/kg
Lindane, wu ug/L
Magnesium, wf mg/L
Magnesium, wu,re mg/L
Malathion, bs ug/kg
Manganese, bs,re ug/g
Manganese, ss,re ug/L
Manganese, wf ug/L
Manganese, wu,re ug/L
Mercury, bs, rec ug/g
Mercury, ss, rec ug/L
NO2+NO3, wu mg/L as N
Non-CO3 hard.,wu mg/L as CaCO3
o,p'-DDD, wu ug/L
o,p'-DDE, wu ug/L
o,p'-DDT, wu ug/L
OH, wf,fixed,fld mg/L
Oil&grease, wu mg/L
Oil&grease, wu,f mg/L
Org nitrogen, ss mg/L
Organic carbon, g/kg
Organic carbon, mg/L
Organic nitrogen mg/L
Organic P, ss,to mg/L
Organic P, wf mg/L
Organic P, wu mg/L
Orthophosphate, mg/L
Orthophosphate, mg/L as P
p,p'-DDD, bs ug/kg
p,p'-DDD, wu ug/L
p,p'-DDE, bs ug/kg
p,p'-DDE, wu ug/L
p,p'-DDT, bs ug/kg
p,p'-DDT, wu ug/L
p,p'-Methoxychlo ug/kg
p,p'-Methoxychlo ug/L
Parathion, bs ug/kg
Particulate-N, s mg/L
PCBs, bs ug/kg
Pentachloropheno ug/L
pH standard units
pH, wu,lab standard units
Phenanthrene, wu ug/L
Phenol, wu ug/L
Phenolic cmpds, ug/L
Pheophytin a,phy ug/L
Strontium, wu,re ug/L
Sulfate, wf mg/L
Sulfate, wu mg/L
Sulfide, wf mg/L
Sulfide, wu mg/L
Suspnd sed <.25m percent
Suspnd sed <0.5m percent
Suspnd sed <125u percent
Suspnd sed <16u, percent
Suspnd sed <1mm, percent
Suspnd sed <32u, percent
Suspnd sed <63u, percent
Suspnd sedmnt <2 percent
Suspnd sedmnt <4 percent
Suspnd sedmnt <8 percent
Suspnd sedmnt co mg/L
Suspnd sedmnt di tons/day
TColiform,M-Endo colonies/100mL
Temperature, air degrees C
Temperature, wat degrees C
Terbutryn, wf ug/L
Total carbon, bs g/kg
Total carbon, ss mg/L
Total carbon, ss percent
Total nitrogen, mg/L
Total nitrogen, mg/L as NO3
Toxaphene, bs ug/kg
Toxaphene, wu ug/L
Transparency, Se meters
Triazines, ELISA ug/L
Tritium, wu pCi/L
Turbidity JCU
Turbidity NTU
Turbidity, wu,fl NTU
Type of QA data code

Chemical and physical parameters (USGS)

Bed sediment <250u percent	Diazinon, bs ug/kg	Mercury, ss,tot ng/L	Phosphorus, wf mg/L	Uranium, wf ug/L
Bed sediment <2mm, percent	Dibenz[ah	Mercury, wf ng/L	Phosphorus, wu mg/L	Vanadium, wf ug/L
Bed sediment <32mm percent	Dibutyl phthalat ug/L	Mercury, wf ug/L	Phosphorus, wu mg/L as PO4	Vanadium, wu ug/L
Bed sediment <4mm, percent	Dieldrin, bs ug/kg	Mercury, wu ng/L	Phytoplankton, t cells/mL	Zinc, bs,rec ug/g

APPENDIX G
DESCRIPTIVE STATISTICS

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
04094000	Conductivity (25deg) (uS/cm)	O	27	795	390	605.6	85.51	0.1412
04094000	Oxygen (dissolved) (mg/L)	O	24	12	4	8.788	2.181	0.2481
04094000	pH (SU)	O	27	8.5	6.8	7.77	0.377	0.04852
04094000	Water Temperature (deg)	O	27	27.5	0.3	13.47	7.385	0.5484
04095300	Conductivity (total) (25deg) (uS/cm)	O	42	624	243	507.5	125.4	0.2472
04095300	Suspended Sediment <63u percent	O	67	97	14	63.94	17.36	0.2716
04095300	Suspended Sediment Conc. (mg/L)	O	95	294	5	77.13	75.05	0.973
04095300	Suspended Sediment Discharge (tons/day)	O	95	509	0.66	85.12	138.2	1.624
04095300	Water Temperature (deg)	O	23	24	0.75	10.42	7.772	0.7461
413814087060300	Conductivity (25deg) (uS/cm)	O	22	1310	50	720.2	342.6	0.4757
413814087060300	pH (SU)	O	21	7.4	6.1	6.957	0.3234	0.04648
413814087060300	Water Temperature (deg)	O	22	30	3.4	17.4	7.455	0.4285
413822087065200	ANC (as CaCO3) (total) (fixed endpoint titration, field) (mg/L	O	24	47	7	26.96	10.35	0.3839
413822087065200	Bicarbonate (total) (mg/L)	O	21	51	8	30.9	11.97	0.3875
413822087065200	Calcium (dissolved) (mg/L)	O	24	150	50	96.79	25.09	0.2593
413822087065200	Carbon dioxide (total) (mg/L)	O	22	75	0.1	16.3	20.81	1.277
413822087065200	Chloride (dissolved) (mg/L)	N	24	13	6.8	10.4	1.509	0.1452
413822087065200	Conductivity (25deg) (uS/cm)	O	28	1060	325	755.5	190.7	0.2525
413822087065200	Hardness (as CaCO3) (mg/L)	O	24	470	190	334.6	81.99	0.245
413822087065200	Hardness, NonCarb (as CaCO3) (total) (mg/L)	O	24	460	160	308.3	85.45	0.2771
413822087065200	Magnesium (dissolved) (mg/L)	M	24	35	12	22.58	6.587	0.2917
413822087065200	Oxygen (dissolved) (mg/L)	O	24	11.6	0.9	7.879	2.757	0.3499
413822087065200	pH (SU)	O	27	9.2	5.9	6.915	0.7553	0.1092
413822087065200	Potassium (dissolved) (mg/L)	O	24	25	6.3	15.85	5.468	0.3451
413822087065200	Residue (dissolved) (total) (mg/L)	O	24	742	261	522.8	133	0.2544
413822087065200	Residue (dissolved) (tons/ac-ft)	O	24	1.01	0.36	0.7108	0.1807	0.2543
413822087065200	Sodium (dissolved) (mg/L)	O	24	21	11	15.38	3.09	0.201
413822087065200	Sodium (total) (%)	O	24	16	6	9	2.396	0.2662
413822087065200	Sodium Adsorption R ratio	O	24	0.6	0.3	0.3708	0.08587	0.2316
413822087065200	Sulfate (dissolved) (mg/L)	N	24	500	150	337.9	97.13	0.2874
413822087065200	Water Temperature (deg)	O	28	35.9	3	16.25	8.779	0.5403
413833087065801	Conductivity (25deg) (uS/cm)	O	23	948	470	713.3	137.9	0.1933
413833087065801	Water Temperature (deg)	O	23	33.4	1.1	14.29	9.342	0.6539
A13	E. Coli (CFU/100mL)	E	76	1000	1.414	6.22	4.291	0.7969
F05	Conductivity (mS)	O	25	76	4	21.74	17.26	0.7941
F05	E. Coli (CFU/100mL)	E	249	18800	1.414	29.52	5.133	0.4832
F05	pH (SU)	O	25	8.05	-1	6.456	3.323	0.5147
F05	Water Temperature (deg)	O	25	25	-1	14.02	9.12	0.6504
J03	E. Coli (CFU/100mL)	E	146	358	1.414	18.5	4.448	0.5115
J04	E. Coli (CFU/100mL)	E	219	1203	1.414	25.96	4.128	0.4354
J05	E. Coli (CFU/100mL)	E	213	2346	1.414	50.25	4.423	0.3796
J06	E. Coli (CFU/100mL)	E	209	2420	1.414	48.62	4.227	0.3712
J09	E. Coli (CFU/100mL)	E	218	866	1.414	22.08	5.392	0.5445
J10	E. Coli (CFU/100mL)	E	177	4392	1.414	34.52	5.467	0.4797
J11	E. Coli (CFU/100mL)	E	185	2057	1.414	38.38	5.581	0.4714
Z4	E. Coli (CFU/100mL)	E	70	800	1.414	26.91	4.529	0.4588
LMG020-0001	Alkalinity (as CaCO3) (mg/L)	O	58	268	83	194.9	44.76	0.2297
LMG020-0001	Aluminum (dissolved) (ug/L)	M	59	15	15	15	0	0
LMG020-0001	Aluminum (total) (ug/L)	M	58	172	25	38.18	28.74	0.7529
LMG020-0001	Arsenic (dissolved) (ug/L)	N	59	19	0.8	5.742	4.182	0.7284
LMG020-0001	Arsenic (total) (ug/L)	N	57	25	1	10.15	6.391	0.6297
LMG020-0001	Barium (dissolved) (ug/L)	M	59	72	2.5	49.3	13.75	0.2788
LMG020-0001	Barium (total) (ug/L)	M	58	82	26	57.86	12.17	0.2103
LMG020-0001	Biological Oxygen Demand (5 day) (total) (mg/L)	O	27	6.8	1.1	3.696	1.307	0.3535
LMG020-0001	Cadmium (dissolved) (ug/L)	M	59	1	0.5	0.5746	0.1582	0.2754
LMG020-0001	Cadmium (total) (ug/L)	M	58	1.2	0.35	0.5017	0.1009	0.201
LMG020-0001	Calcium (as CaCO3) (mg/L)	O	57	307	111	200.5	44.81	0.2235
LMG020-0001	Chloride (mg/L)	N	57	71	36	51.19	8.902	0.1739
LMG020-0001	Chromium (total) (dissolved) (ug/L)	M	42	9.81	0.6	2.178	1.777	0.8157
LMG020-0001	Chromium (total) (ug/L)	M	55	5.3	0.6	1.15	0.8658	0.7528
LMG020-0001	COD (mg/L)	O	55	84.4	2.5	34.46	16.33	0.4739
LMG020-0001	Conductivity (uS/cm)	O	60	1105	421	702.1	112.7	0.1605
LMG020-0001	Copper (dissolved) (ug/L)	M	59	7.3	0.5	1.063	1.095	1.03
LMG020-0001	Copper (total) (ug/L)	M	58	6.5	0.5	1.379	1.188	0.8614
LMG020-0001	Cyanide (Chlorine Amenable) (mg/L)	N	48	0.009	-0.1	-0.01119	0.03712	-3.318
LMG020-0001	Cyanide (Free) (mg/L)	N	48	0.015	0.0025	0.004296	0.003016	0.702
LMG020-0001	Cyanide (total) (mg/L)	N	57	0.02	0.0025	0.01051	0.00425	0.4045
LMG020-0001	Fluoride (mg/L)	N	53	0.9	0.2	0.6741	0.1097	0.1627
LMG020-0001	Hardness (as CaCO3) (mg/L)	O	58	392	203	308.2	43.78	0.142
LMG020-0001	Iron (dissolved) (ug/L)	M	59	303	4	104.3	70.1	0.6723
LMG020-0001	Iron (total) (ug/L)	M	58	2000	140	840.5	392.8	0.4674
LMG020-0001	Lead (dissolved) (ug/L)	M	59	0.75	0.5	0.5847	0.1194	0.2041
LMG020-0001	Lead (total) (ug/L)	M	58	14	0.5	2.02	2.48	1.228
LMG020-0001	Manganese (dissolved) (ug/L)	M	59	630	0.5	210.1	129.8	0.6176
LMG020-0001	Manganese (total) (ug/L)	M	58	740	13	293.2	133.5	0.4552
LMG020-0001	Mercury (total) (ug/L)	M	58	0.1	0.1	0.1	5.261E-08	5.261E-07
LMG020-0001	Nickel (dissolved) (ug/L)	M	59	3	0.4	1.331	0.7989	0.6004
LMG020-0001	Nickel (total) (ug/L)	M	58	7.6	0.7	1.584	1.164	0.7347
LMG020-0001	Nitrogen, Ammonia (mg/L)	N	56	11	0.3	3.204	2.229	0.6958
LMG020-0001	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	57	16	0.2	2.031	3.36	1.654
LMG020-0001	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	52	11	0.05	4.556	2.432	0.5338

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0001	Oxygen (dissolved) (mg/L)	O	60	12.5	1.2	6.882	2.325	0.3379
LMG020-0001	pH (SU)	O	118	8.8	7.19	7.815	0.2572	0.03291
LMG020-0001	Phosphorus (total) (mg/L)	N	58	0.15	0.015	0.05852	0.03094	0.5287
LMG020-0001	Selenium (dissolved) (ug/L)	N	59	5.12	0.6	1.481	0.8705	0.5879
LMG020-0001	Selenium (total) (ug/L)	N	58	4.42	0.5	1.069	0.6852	0.6411
LMG020-0001	Silica (total) (reactive) (mg/L)	O	52	25	1.9	11.8	5.01	0.4247
LMG020-0001	Silver (total) (ug/L)	M	58	5.4	0.25	0.8319	1.071	1.287
LMG020-0001	Sodium (mg/L)	O	53	36	10.1	21.35	5.436	0.2547
LMG020-0001	Sulfate (mg/L)	N	58	165	34	91.06	25.13	0.276
LMG020-0001	Total Dissolved Solids (mg/L)	O	58	573	309	448	64.82	0.1447
LMG020-0001	Total Organic Carbon (mg/L)	O	50	10.2	1.5	6.945	2.007	0.289
LMG020-0001	Total Solids (mg/L)	O	58	601	310	480.3	65.21	0.1358
LMG020-0001	Total Suspended Solids (mg/L)	O	58	72	2	14.47	13.47	0.9315
LMG020-0001	Turbidity (NTU)	O	60	62.29	3.1	13.79	10.24	0.7427
LMG020-0001	Water Temperature (deg)	O	60	27.6	2.3	14.65	7.639	0.5213
LMG020-0001	Zinc (dissolved) (ug/L)	M	54	6.06	1.5	2.697	1.575	0.5838
LMG020-0001	Zinc (total) (ug/L)	M	58	30	3	5.211	5.165	0.991
LMG020-0003	Alkalinity (as CaCO3) (mg/L)	O	142	220	97	122.2	14.93	0.1222
LMG020-0003	Aluminum (dissolved) (ug/L)	M	68	98	15	18.27	11.74	0.6424
LMG020-0003	Aluminum (total) (ug/L)	M	68	270	25	124	45.9	0.3701
LMG020-0003	Arsenic (dissolved) (ug/L)	N	68	2.04	0.6	1.606	0.382	0.2379
LMG020-0003	Arsenic (total) (ug/L)	N	141	3.3	0.7	1.854	0.6123	0.3303
LMG020-0003	Barium (dissolved) (ug/L)	M	68	27.2	19	22.73	1.601	0.07044
LMG020-0003	Barium (total) (ug/L)	M	143	42	20	25.46	3.647	0.1432
LMG020-0003	Biological Oxygen Demand (5 day) (total) (mg/L)	O	65	4.8	0.5	1.634	0.883	0.5405
LMG020-0003	Cadmium (dissolved) (ug/L)	M	68	1	0.1	0.5647	0.1609	0.285
LMG020-0003	Cadmium (total) (ug/L)	M	143	1.6	0.1	0.6122	0.2602	0.425
LMG020-0003	Chloride (mg/L)	N	141	150	12	54.44	14.45	0.2655
LMG020-0003	Chromium (dissolved) (ug/L)	M	20	12	1.2	3.4	2.709	0.7968
LMG020-0003	Chromium (total) (dissolved) (ug/L)	M	48	13.67	0.6	2.872	2.965	1.032
LMG020-0003	Chromium (total) (ug/L)	M	140	120	1.5	5.937	10.34	1.742
LMG020-0003	Chromium, Hexavalent (ug/L)	M	87	140	5	6.552	14.47	2.209
LMG020-0003	COD (mg/L)	O	140	33	2.5	12.6	3.991	0.3168
LMG020-0003	Conductivity (uS/cm)	O	152	902	345	548.8	71.23	0.1298
LMG020-0003	Copper (dissolved) (ug/L)	M	76	11	0.5	1.747	1.305	0.747
LMG020-0003	Copper (total) (ug/L)	M	143	12	1.9	3.725	1.684	0.4521
LMG020-0003	Cyanide (Free) (mg/L)	N	20	0.0025	0.0025	0.0025	2.389E-10	9.555E-08
LMG020-0003	Cyanide (total) (mg/L)	N	136	0.013	0.0025	0.003974	0.002226	0.56
LMG020-0003	E. Coli (CFU/100mL)	E	56	3400	5	89.88	6.678	0.4221
LMG020-0003	Fluoride (mg/L)	N	138	0.7	0.2	0.4924	0.07937	0.1612
LMG020-0003	Hardness (as CaCO3) (mg/L)	O	142	271	112	192.3	25.65	0.1334
LMG020-0003	Iron (dissolved) (ug/L)	M	116	380	4	48	80.59	1.679
LMG020-0003	Iron (total) (ug/L)	M	143	2600	89	740.7	376.5	0.5083
LMG020-0003	Lead (dissolved) (ug/L)	M	97	3.8	0.5	0.6603	0.3455	0.5232
LMG020-0003	Lead (total) (ug/L)	M	143	16	2.64	6.11	3.157	0.5168
LMG020-0003	Manganese (dissolved) (ug/L)	M	97	53.5	0.5	17.94	13.17	0.7341
LMG020-0003	Manganese (total) (ug/L)	M	137	230	12	44.27	27.02	0.6103
LMG020-0003	Mercury (total) (ug/L)	M	143	0.1	0.05	0.07797	0.02491	0.3195
LMG020-0003	Nickel (dissolved) (ug/L)	M	68	3	0.7	2.207	0.4121	0.1867
LMG020-0003	Nickel (total) (ug/L)	M	143	9.6	1.72	3.099	1.109	0.358
LMG020-0003	Nitrogen, Ammonia (mg/L)	N	143	1.8	0.05	0.4531	0.286	0.6312
LMG020-0003	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	142	5.2	0.3	2.625	1.339	0.5104
LMG020-0003	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	136	2.9	0.05	0.9571	0.3487	0.3644
LMG020-0003	Oxygen (dissolved) (mg/L)	O	154	12.39	3.9	7.611	1.582	0.2078
LMG020-0003	pH (SU)	O	292	8.4	6.9	7.816	0.2324	0.02973
LMG020-0003	Phenolics (total) (ug/L)	O	88	27	2.5	3.182	2.969	0.9332
LMG020-0003	Phosphorus (total) (mg/L)	N	143	0.23	0.015	0.07057	0.02764	0.3916
LMG020-0003	Selenium (dissolved) (ug/L)	N	68	3.88	0.6	1.305	0.6692	0.5128
LMG020-0003	Selenium (total) (ug/L)	N	143	3	0.25	0.9327	0.5135	0.5505
LMG020-0003	Silica (dissolved) (reactive) (mg/L)	O	64	11	0.5	5.197	2.265	0.4358
LMG020-0003	Silica (total) (reactive) (mg/L)	O	67	6	2	3.597	0.9686	0.2693
LMG020-0003	Silver (total) (ug/L)	M	142	8.7	0.25	2.218	1.828	0.8241
LMG020-0003	Sodium (mg/L)	O	60	94	26.1	36.35	10.18	0.28
LMG020-0003	Sodium (ug/L)	O	82	54000	6.4	17530	16100	0.9188
LMG020-0003	Sulfate (mg/L)	N	68	92	2.5	61.67	11.3	0.1832
LMG020-0003	Total Dissolved Solids (mg/L)	O	141	506	170	320.8	41.75	0.1301
LMG020-0003	Total Organic Carbon (mg/L)	O	58	4.8	2.4	3.231	0.4641	0.1436
LMG020-0003	Total Solids (mg/L)	O	142	516	165	340.8	44.87	0.1317
LMG020-0003	Total Suspended Solids (mg/L)	O	142	56	2	7.232	5.633	0.7788
LMG020-0003	Turbidity (NTU)	O	120	30	1	8.279	3.624	0.4377
LMG020-0003	Water Temperature (°C)	O	154	30.2	1.95	17.76	7.206	0.4057
LMG020-0003	Zinc (dissolved) (ug/L)	M	92	39.2	1.5	9.812	4.646	0.4735
LMG020-0003	Zinc (total) (ug/L)	M	137	260	5	32.51	22.62	0.6957
LMG020-0004	Alkalinity (as CaCO3) (mg/L)	O	171	266	90	123	17.75	0.1443
LMG020-0004	Aluminum (dissolved) (ug/L)	M	71	64	15	18.36	9.18	0.4999
LMG020-0004	Aluminum (total) (ug/L)	M	70	720	25	183.5	120.7	0.6578
LMG020-0004	Arsenic (dissolved) (ug/L)	N	71	4.2	0.6	1.605	0.4778	0.2978
LMG020-0004	Arsenic (total) (ug/L)	N	170	4.5	0.6	1.84	0.7067	0.384
LMG020-0004	Barium (dissolved) (ug/L)	M	71	28.3	2.5	22.31	3.06	0.1371
LMG020-0004	Barium (total) (ug/L)	M	172	51	7.5	25.31	5.223	0.2064
LMG020-0004	Biological Oxygen Demand (5 day) (total) (mg/L)	O	82	6.6	0.5	1.954	1.246	0.6379

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0004	Cadmium (dissolved) (ug/L)	M	71	1	0.1	0.5662	0.1656	0.2924
LMG020-0004	Cadmium (total) (ug/L)	M	72	1.17	0.1	0.4892	0.1096	0.2241
LMG020-0004	Calcium (as CaCO3) (mg/L)	O	169	196	22	133.9	19.96	0.149
LMG020-0004	Chloride (mg/L)	N	170	180	14	53.56	17.16	0.3204
LMG020-0004	Chromium (dissolved) (ug/L)	M	20	4.8	1.4	2.335	0.8786	0.3763
LMG020-0004	Chromium (total) (dissolved) (ug/L)	M	51	25	0.6	2.155	3.361	1.56
LMG020-0004	Chromium (total) (ug/L)	M	169	41	0.6	4.909	4.452	0.9069
LMG020-0004	COD (mg/L)	O	170	40	2.5	14.26	5.2	0.3646
LMG020-0004	Conductivity (uS/cm)	O	159	972	312	550.1	97.72	0.1776
LMG020-0004	Copper (dissolved) (ug/L)	M	79	4	0.5	1.675	0.7682	0.4587
LMG020-0004	Copper (total) (ug/L)	M	71	17	1.55	4.392	2.443	0.5562
LMG020-0004	Cyanide (Chlorine Amenable) (mg/L)	N	27	0.011	0.001	0.005019	0.002021	0.4028
LMG020-0004	Cyanide (Free) (mg/L)	N	28	0.006	0.0025	0.002625	0.0006614	0.252
LMG020-0004	Cyanide (total) (mg/L)	N	162	0.014	0.0025	0.005019	0.003014	0.6007
LMG020-0004	E. Coli (CFU/100mL)	E	83	84000	5	259.5	9.079	0.3969
LMG020-0004	Fluoride (mg/L)	N	66	57	0.4	1.393	6.95	4.99
LMG020-0004	Hardness (as CaCO3) (mg/L)	O	171	304	120	192	27.01	0.1407
LMG020-0004	Iron (dissolved) (ug/L)	M	120	540	4	56.91	93.15	1.637
LMG020-0004	Iron (total) (ug/L)	M	172	5770	85	1177	937.2	0.7962
LMG020-0004	Lead (dissolved) (ug/L)	M	79	1	0.5	0.6013	0.1298	0.2159
LMG020-0004	Lead (total) (ug/L)	M	72	51.1	1.49	10.04	8.103	0.8071
LMG020-0004	Manganese (dissolved) (ug/L)	M	79	70.6	0.5	24.33	14.41	0.5925
LMG020-0004	Manganese (total) (ug/L)	M	70	143	22	53.64	27.29	0.5087
LMG020-0004	Mercury (total) (ug/L)	M	172	0.3	0.05	0.07529	0.03176	0.4218
LMG020-0004	Nickel (dissolved) (ug/L)	M	71	3	0.7	2.082	0.5119	0.2459
LMG020-0004	Nickel (total) (ug/L)	M	71	6.4	1.54	3.116	0.9982	0.3204
LMG020-0004	Nitrogen, Ammonia (mg/L)	N	173	2.2	0.05	0.5247	0.3351	0.6387
LMG020-0004	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	172	5.4	0.4	2.589	1.367	0.5279
LMG020-0004	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	167	3.2	0.05	1.113	0.4519	0.4062
LMG020-0004	Oxygen (dissolved) (mg/L)	O	159	12.01	3.95	7.685	1.723	0.2242
LMG020-0004	pH (SU)	O	327	8.6	6.5	7.717	0.3111	0.04032
LMG020-0004	Phenolics (total) (ug/L)	O	108	17	2.5	3.412	2.689	0.7882
LMG020-0004	Phosphorus (total) (mg/L)	N	172	0.48	0.015	0.08	0.04888	0.611
LMG020-0004	Selenium (dissolved) (ug/L)	N	71	2.25	0.6	1.284	0.5437	0.4234
LMG020-0004	Selenium (total) (ug/L)	N	172	3.8	0.25	0.8276	0.5297	0.6401
LMG020-0004	Silica (dissolved) (reactive) (mg/L)	O	87	12	0.5	4.67	2.468	0.5285
LMG020-0004	Silica (total) (reactive) (mg/L)	O	72	7	2	3.601	1.204	0.3344
LMG020-0004	Silver (total) (ug/L)	M	171	8.7	0.25	2.632	1.956	0.7431
LMG020-0004	Sodium (mg/L)	O	63	110	24	36.59	11.53	0.3151
LMG020-0004	Sodium (ug/L)	O	108	49000	8.5	13000	15780	1.214
LMG020-0004	Sulfate (mg/L)	N	71	82	48	63.62	8.743	0.1374
LMG020-0004	Total Dissolved Solids (mg/L)	O	70	517	291	345.3	35.91	0.104
LMG020-0004	Total Organic Carbon (mg/L)	O	60	29.6	2.2	3.713	3.461	0.9323
LMG020-0004	Total Solids (mg/L)	O	170	551	207	345	51.18	0.1483
LMG020-0004	Total Suspended Solids (mg/L)	O	170	61	1	9.494	7.752	0.8165
LMG020-0004	Turbidity (NTU)	O	103	24	1.4	8.566	3.835	0.4477
LMG020-0004	Water Temperature (°C)	O	160	30.39	1.77	16.83	7.125	0.4232
LMG020-0004	Zinc (dissolved) (ug/L)	M	74	41	1.5	10.72	6.84	0.6383
LMG020-0004	Zinc (total) (ug/L)	M	71	170	12	45.86	29.99	0.6539
LMG020-0005	Alkalinity (as CaCO3) (mg/L)	O	169	206	60	125.1	15.04	0.1202
LMG020-0005	Aluminum (dissolved) (ug/L)	M	66	43.4	15	16.2	5.06	0.3123
LMG020-0005	Aluminum (total) (ug/L)	M	66	190	25	80.11	36.63	0.4573
LMG020-0005	Arsenic (dissolved) (ug/L)	N	66	2	0.6	1.572	0.3668	0.2334
LMG020-0005	Arsenic (total) (ug/L)	N	168	3.39	0.9	1.66	0.5288	0.3186
LMG020-0005	Barium (dissolved) (ug/L)	M	66	30	18	23.9	2.55	0.1067
LMG020-0005	Barium (total) (ug/L)	M	170	50	16	25.68	4.693	0.1828
LMG020-0005	Biological Oxygen Demand (5 day) (total) (mg/L)	O	79	5.7	0.5	1.981	0.9545	0.4818
LMG020-0005	Cadmium (dissolved) (ug/L)	M	66	1	0.1	0.5636	0.1623	0.288
LMG020-0005	Cadmium (total) (ug/L)	M	68	0.5	0.1	0.4838	0.0595	0.123
LMG020-0005	Calcium (as CaCO3) (mg/L)	O	168	210	92	137	19.62	0.1432
LMG020-0005	Chloride (mg/L)	N	169	110	28	56.25	13.9	0.2471
LMG020-0005	Chromium (total) (dissolved) (ug/L)	M	47	3.33	0.6	1.642	0.7604	0.4632
LMG020-0005	Chromium (total) (ug/L)	M	167	15	0.6	3.394	2.478	0.73
LMG020-0005	COD (mg/L)	O	167	31.6	2.5	13.82	4.279	0.3096
LMG020-0005	Conductivity (uS/cm)	O	158	988	5.059	558.6	106.2	0.1901
LMG020-0005	Copper (dissolved) (ug/L)	M	74	17	1.1	1.977	1.964	0.9938
LMG020-0005	Copper (total) (ug/L)	M	68	7.1	1.7	2.576	0.868	0.337
LMG020-0005	Cyanide (total) (mg/L)	N	157	0.019	0.0025	0.0045	0.002881	0.6401
LMG020-0005	E. Coli (CFU/100mL)	E	85	1700	2.5	54.64	5.802	0.4395
LMG020-0005	Fluoride (mg/L)	N	62	0.7	0.4	0.5487	0.06203	0.1131
LMG020-0005	Hardness (as CaCO3) (mg/L)	O	169	288	128	195.9	25.64	0.1309
LMG020-0005	Iron (dissolved) (ug/L)	M	115	310	4	45.23	70.67	1.563
LMG020-0005	Iron (total) (ug/L)	M	170	1500	60	513.6	241.9	0.471
LMG020-0005	Lead (dissolved) (ug/L)	M	74	0.75	0.5	0.598	0.1229	0.2055
LMG020-0005	Lead (total) (ug/L)	M	68	15	1.9	4.495	2.327	0.5176
LMG020-0005	Manganese (dissolved) (ug/L)	M	74	58	0.35	14.62	12.93	0.8841
LMG020-0005	Manganese (total) (ug/L)	M	66	74.7	16	40.35	14.78	0.3664
LMG020-0005	Mercury (total) (ug/L)	M	67	0.1	0.05	0.09925	0.006108	0.06154
LMG020-0005	Nickel (dissolved) (ug/L)	M	66	3	0.7	2.215	0.4202	0.1897
LMG020-0005	Nickel (total) (ug/L)	M	68	4.5	1.71	2.702	0.5062	0.1873
LMG020-0005	Nitrogen, Ammonia (mg/L)	N	170	1.7	0.05	0.4927	0.312	0.6333

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0005	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	169	5.4	0.6	2.49	1.288	0.5172
LMG020-0005	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	163	5.2	0.3984	1.127	0.5032	0.4464
LMG020-0005	Oxygen (dissolved) (mg/L)	O	158	12.6	3.81	7.921	1.623	0.2049
LMG020-0005	pH (SU)	O	324	8.9	6.5	7.742	0.3427	0.04426
LMG020-0005	Phenolics (total) (ug/L)	O	113	19	2.5	2.938	1.915	0.6517
LMG020-0005	Phosphorus (total) (mg/L)	N	169	0.14	0.015	0.06455	0.02358	0.3653
LMG020-0005	Selenium (dissolved) (ug/L)	N	66	2.05	0.6	1.23	0.5342	0.4342
LMG020-0005	Selenium (total) (ug/L)	N	170	3	0.04	0.7998	0.4914	0.6144
LMG020-0005	Silica (dissolved) (reactive) (mg/L)	O	88	12	0.5	4.645	2.243	0.4828
LMG020-0005	Silica (total) (reactive) (mg/L)	O	68	7	1	3.538	1.141	0.3224
LMG020-0005	Silver (total) (ug/L)	M	169	10.5	0.25	2.734	2.037	0.7451
LMG020-0005	Sodium (mg/L)	O	59	59	25.9	37.83	7.797	0.2061
LMG020-0005	Sodium (ug/L)	O	111	53000	15	13790	16590	1.202
LMG020-0005	Sulfate (mg/L)	N	67	87	48	66.24	9.183	0.1386
LMG020-0005	Total Dissolved Solids (mg/L)	O	67	440	291	351.8	37.04	0.1053
LMG020-0005	Total Organic Carbon (mg/L)	O	56	8.1	2.3	3.813	1.115	0.2924
LMG020-0005	Total Solids (mg/L)	O	168	455	210	349.9	48.02	0.1372
LMG020-0005	Total Suspended Solids (mg/L)	O	169	21	2	5.734	3.385	0.5904
LMG020-0005	Turbidity (NTU)	O	103	19	3.4	7.884	2.661	0.3375
LMG020-0005	Water Temperature (°C)	O	160	30.29	1.8	16.87	7.492	0.4441
LMG020-0005	Zinc (dissolved) (ug/L)	M	69	18	1.5	9.319	3.581	0.3843
LMG020-0005	Zinc (total) (ug/L)	M	68	48	10	22.33	7.397	0.3313
LMG020-0006	Alkalinity (as CaCO3) (mg/L)	O	160	148	60	110.1	9.357	0.08501
LMG020-0006	Arsenic (total) (ug/L)	N	156	4.3	0.5	1.191	0.554	0.4652
LMG020-0006	Barium (total) (ug/L)	M	158	30	17	21.87	2.574	0.1177
LMG020-0006	Biological Oxygen Demand (5 day) (total) (mg/L)	O	77	1.6	0.5	0.5416	0.208	0.384
LMG020-0006	Cadmium (total) (ug/L)	M	158	1.1	0.1	0.6437	0.252	0.3916
LMG020-0006	Calcium (as CaCO3) (mg/L)	O	159	174	74	105.2	15.4	0.1463
LMG020-0006	Chloride (mg/L)	N	160	20	10	13.63	2.202	0.1616
LMG020-0006	Chromium (total) (ug/L)	M	155	120	0.6	3.122	9.601	3.075
LMG020-0006	Chromium, Hexavalent (ug/L)	M	119	5	5	5	0	0
LMG020-0006	COD (mg/L)	O	156	19.2	2.5	6.569	3.268	0.4974
LMG020-0006	Copper (dissolved) (ug/L)	M	52	51.1	2	20.1	13.24	0.6589
LMG020-0006	Copper (total) (ug/L)	M	159	100	4	27.07	15.13	0.5587
LMG020-0006	Cyanide (total) (mg/L)	N	156	0.009	0.0025	0.002587	0.0006505	0.2515
LMG020-0006	E. Coli (CFU/100mL)	E	75	300	5	5.846	1.828	0.3417
LMG020-0006	Fluoride (mg/L)	N	156	0.3	0.05	0.1285	0.05736	0.4465
LMG020-0006	Hardness (as CaCO3) (mg/L)	O	160	192	110	141.9	11.87	0.08365
LMG020-0006	Iron (dissolved) (ug/L)	M	115	580	4	28.21	82.4	2.92
LMG020-0006	Iron (total) (ug/L)	M	158	1900	10	234.3	317.5	1.355
LMG020-0006	Lead (dissolved) (ug/L)	M	53	0.75	0.5	0.5425	0.09476	0.1747
LMG020-0006	Lead (total) (ug/L)	M	158	11	0.5	2.633	1.933	0.7342
LMG020-0006	Manganese (dissolved) (ug/L)	M	52	3	0.5	0.7667	0.6895	0.8993
LMG020-0006	Manganese (total) (ug/L)	M	158	95	1	8.834	12.66	1.433
LMG020-0006	Mercury (total) (ug/L)	M	158	0.2	0.05	0.07405	0.0269	0.3633
LMG020-0006	Nickel (total) (ug/L)	M	158	6.4	0.7	2.176	1.008	0.4631
LMG020-0006	Nitrogen, Ammonia (mg/L)	N	160	1.2	0.05	0.05844	0.09115	1.56
LMG020-0006	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	159	0.7	0.2	0.3415	0.1033	0.3024
LMG020-0006	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	151	0.8	0.05	0.2098	0.09424	0.4491
LMG020-0006	pH (SU)	O	162	9.06	6.8	8.067	0.3102	0.03845
LMG020-0006	Phenolics (total) (ug/L)	O	110	18	2.5	2.873	1.848	0.6433
LMG020-0006	Phosphorus (total) (mg/L)	N	160	0.07	0.015	0.01696	0.007842	0.4623
LMG020-0006	Selenium (total) (ug/L)	N	158	3	0.25	0.7994	0.4717	0.5901
LMG020-0006	Silica (dissolved) (reactive) (mg/L)	O	89	4	0.5	1.454	1.051	0.7227
LMG020-0006	Silica (total) (reactive) (mg/L)	O	61	4	0.5	1.174	0.719	0.6126
LMG020-0006	Silver (total) (ug/L)	M	157	7.6	0.25	2.404	1.871	0.7783
LMG020-0006	Sodium (mg/L)	O	61	13	6.4	8.472	1.405	0.1659
LMG020-0006	Sodium (ug/L)	O	96	11000	5.4	3637	3889	1.069
LMG020-0006	Sulfate (mg/L)	N	159	31	19	25.51	2.218	0.08696
LMG020-0006	Total Dissolved Solids (mg/L)	O	159	326	82	176	19.97	0.1135
LMG020-0006	Total Organic Carbon (mg/L)	O	60	8.3	1.2	1.894	1.206	0.6368
LMG020-0006	Total Solids (mg/L)	O	160	324	118	191.8	22.14	0.1154
LMG020-0006	Total Suspended Solids (mg/L)	O	72	192	2	13.1	30.69	2.343
LMG020-0006	Zinc (dissolved) (ug/L)	M	49	5	1.5	2.29	1.204	0.5256
LMG020-0006	Zinc (total) (ug/L)	M	158	25	2.25	5.36	4.009	0.7479
LMG020-0008	Alkalinity (as CaCO3) (mg/L)	O	166	150	60	110.9	9.409	0.08484
LMG020-0008	Arsenic (total) (ug/L)	N	164	4.8	0.5	1.236	0.6499	0.5257
LMG020-0008	Barium (total) (ug/L)	M	167	41	10	21.85	3.193	0.1461
LMG020-0008	Biological Oxygen Demand (5 day) (total) (mg/L)	O	79	1.5	0.5	0.5658	0.2075	0.3667
LMG020-0008	Cadmium (total) (ug/L)	M	167	1.9	0.1	0.668	0.2774	0.4152
LMG020-0008	Calcium (as CaCO3) (mg/L)	O	164	164	77	105.5	14.77	0.14
LMG020-0008	Chloride (mg/L)	N	166	55	9	12.92	3.786	0.2931
LMG020-0008	Chromium (total) (ug/L)	M	163	13	0.6	2.681	2.061	0.769
LMG020-0008	Chromium, Hexavalent (ug/L)	M	131	10	5	5.038	0.4369	0.08671
LMG020-0008	COD (mg/L)	O	164	46	2.5	7.003	5.321	0.7598
LMG020-0008	Copper (dissolved) (ug/L)	M	53	17	2	7.115	3.288	0.4622
LMG020-0008	Copper (total) (ug/L)	M	167	120	2	11.61	10.17	0.8755
LMG020-0008	Cyanide (total) (mg/L)	N	164	0.009	0.0025	0.002695	0.0009059	0.3361
LMG020-0008	E. Coli (CFU/100mL)	E	84	2400	0.5	5.811	2.797	0.5845
LMG020-0008	Fluoride (mg/L)	N	161	0.7	0.05	0.187	0.09819	0.5251
LMG020-0008	Hardness (as CaCO3) (mg/L)	O	166	318	106	142.5	18.51	0.1299

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0008	Iron (dissolved) (ug/L)	M	117	520	4	33.9	87.8	2.59
LMG020-0008	Iron (total) (ug/L)	M	82	5000	10	264.5	575.1	2.175
LMG020-0008	Lead (dissolved) (ug/L)	M	53	0.75	0.5	0.5472	0.09875	0.1805
LMG020-0008	Lead (total) (ug/L)	M	167	17	0.5	2.713	2.107	0.7764
LMG020-0008	Manganese (dissolved) (ug/L)	M	53	3.34	0.5	1.928	0.7018	0.3641
LMG020-0008	Mercury (total) (ug/L)	M	167	0.2	0.05	0.07335	0.02677	0.3649
LMG020-0008	Nickel (total) (ug/L)	M	167	11	0.7	2.221	1.184	0.5331
LMG020-0008	Nitrogen, Ammonia (mg/L)	N	167	1	0.05	0.06048	0.08499	1.405
LMG020-0008	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	166	1.4	0.2	0.3456	0.1187	0.3435
LMG020-0008	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	59	0.9	0.05	0.1817	0.127	0.6993
LMG020-0008	pH (SU)	O	170	8.68	6.8	7.974	0.2993	0.03753
LMG020-0008	Phenolics (total) (ug/L)	O	106	8	2.5	2.608	0.6726	0.2579
LMG020-0008	Phosphorus (total) (mg/L)	N	167	0.12	0.015	0.01947	0.01532	0.7867
LMG020-0008	Selenium (total) (ug/L)	N	166	3	0.25	0.7298	0.403	0.5522
LMG020-0008	Silica (dissolved) (reactive) (mg/L)	O	85	4	0.5	1.642	1.071	0.6525
LMG020-0008	Silica (total) (reactive) (mg/L)	O	71	4	0.5	1.19	0.7347	0.6173
LMG020-0008	Silver (total) (ug/L)	M	166	20.1	0.25	2.735	2.361	0.8633
LMG020-0008	Sodium (mg/L)	O	59	12	5.9	7.588	1.261	0.1662
LMG020-0008	Sodium (ug/L)	O	107	9000	5.3	3005	3447	1.147
LMG020-0008	Sulfate (mg/L)	N	166	64	20	25.04	3.654	0.146
LMG020-0008	Total Dissolved Solids (mg/L)	O	163	343	144	173.9	20.99	0.1207
LMG020-0008	Total Organic Carbon (mg/L)	O	56	2.1	1.2	1.643	0.2203	0.1341
LMG020-0008	Total Solids (mg/L)	O	165	1710	160	200.9	121.8	0.6066
LMG020-0008	Total Suspended Solids (mg/L)	O	78	226	2	16.03	32.66	2.038
LMG020-0008	Zinc (dissolved) (ug/L)	M	49	5	1.5	2.404	1.202	0.5002
LMG020-0008	Zinc (total) (ug/L)	M	161	70	2.25	6.221	7.141	1.148
LMG020-0009	Alkalinity (as CaCO3) (mg/L)	O	180	196	75	110.7	10.11	0.09126
LMG020-0009	Arsenic (total) (ug/L)	N	179	4.9	0.5	1.084	0.4976	0.459
LMG020-0009	Barium (total) (ug/L)	M	180	31	18	21.62	2.421	0.112
LMG020-0009	Biological Oxygen Demand (5 day) (total) (mg/L)	O	84	2	0.5	0.5179	0.1637	0.316
LMG020-0009	Cadmium (total) (ug/L)	M	179	1	0.1	0.6511	0.2564	0.3938
LMG020-0009	Calcium (as CaCO3) (mg/L)	O	178	204	9.8	105.8	18.21	0.1721
LMG020-0009	Chloride (mg/L)	N	180	46	2.5	12.46	3.133	0.2515
LMG020-0009	Chromium (total) (ug/L)	M	175	14	0.6	2.407	1.933	0.8032
LMG020-0009	Chromium, Hexavalent (ug/L)	M	120	10	5	5.042	0.4564	0.09053
LMG020-0009	COD (mg/L)	O	177	25.1	2.5	6.321	3.297	0.5215
LMG020-0009	Copper (dissolved) (ug/L)	M	64	149	1.5	54.64	37.29	0.6824
LMG020-0009	Copper (total) (ug/L)	M	180	580	2	61.49	60.3	0.9806
LMG020-0009	Cyanide (total) (mg/L)	N	177	0.006	0.0025	0.00252	0.0002631	0.1044
LMG020-0009	E. Coli (CFU/100mL)	E	92	4000	0.5	6.992	3.492	0.643
LMG020-0009	Fluoride (mg/L)	N	176	0.3	0.05	0.1133	0.05073	0.4478
LMG020-0009	Hardness (as CaCO3) (mg/L)	O	180	202	108	140.6	12.08	0.08593
LMG020-0009	Iron (dissolved) (ug/L)	M	132	520	4	23.95	72.14	3.012
LMG020-0009	Iron (total) (ug/L)	M	95	1600	10	204.5	319.7	1.563
LMG020-0009	Lead (dissolved) (ug/L)	M	64	1.8	0.5	0.575	0.1871	0.3254
LMG020-0009	Lead (total) (ug/L)	M	180	12	0.5	2.371	1.571	0.6629
LMG020-0009	Manganese (dissolved) (ug/L)	M	64	6.4	0.35	0.7359	0.9262	1.259
LMG020-0009	Mercury (total) (ug/L)	M	180	0.2	0.05	0.07472	0.02669	0.3572
LMG020-0009	Nickel (total) (ug/L)	M	180	7.1	0.7	2.118	1.063	0.5018
LMG020-0009	Nitrogen, Ammonia (mg/L)	N	181	0.5	0.05	0.05525	0.04362	0.7896
LMG020-0009	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	179	0.8	0.2	0.313	0.08197	0.2619
LMG020-0009	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	73	0.4	0.05	0.1507	0.07996	0.5305
LMG020-0009	pH (SU)	O	184	8.7	6.3	7.97	0.3327	0.04174
LMG020-0009	Phenolics (total) (ug/L)	O	113	14	2.5	2.942	1.632	0.5547
LMG020-0009	Phosphorus (total) (mg/L)	N	181	0.11	0.015	0.01655	0.008372	0.506
LMG020-0009	Selenium (total) (ug/L)	N	179	3	0.25	0.724	0.4138	0.5715
LMG020-0009	Silica (dissolved) (reactive) (mg/L)	O	87	5	0.38	1.584	1.181	0.7459
LMG020-0009	Silica (total) (reactive) (mg/L)	O	80	4	0.05	1.077	0.699	0.6491
LMG020-0009	Silver (total) (ug/L)	M	180	7.8	0.25	2.576	1.961	0.7611
LMG020-0009	Sodium (mg/L)	O	70	8.64	5.6	6.867	0.6397	0.09315
LMG020-0009	Sodium (ug/L)	O	110	8000	5.2	2810	3228	1.149
LMG020-0009	Sulfate (mg/L)	N	180	38	19	24.06	2.091	0.08692
LMG020-0009	Total Dissolved Solids (mg/L)	O	178	230	110	170.5	10.98	0.06441
LMG020-0009	Total Organic Carbon (mg/L)	O	66	2	1.2	1.593	0.1866	0.1171
LMG020-0009	Total Solids (mg/L)	O	179	292	145	186.5	17.7	0.09491
LMG020-0009	Total Suspended Solids (mg/L)	O	179	67	1	9.637	12.79	1.327
LMG020-0009	Zinc (dissolved) (ug/L)	M	58	18	1.5	3.508	2.532	0.7218
LMG020-0009	Zinc (total) (ug/L)	M	176	20	2.25	5.14	3.117	0.6064
LMG020-0010	4,4-DDT (ug/L)	P	20	0.1	0.05	0.0775	0.02552	0.3293
LMG020-0010	Acetochlor (ug/L)	P	27	0.06	0.03	0.05	0.01441	0.2882
LMG020-0010	Alachlor (ug/L)	P	28	0.05	0.025	0.04196	0.01189	0.2833
LMG020-0010	Alkalinity (as CaCO3) (mg/L)	O	170	210	65	110.5	11.95	0.1082
LMG020-0010	Arsenic (total) (ug/L)	N	169	5.6	0.5	1.237	0.6603	0.534
LMG020-0010	Atrazine (Aatrex) (ug/L)	P	20	0.14	0.07	0.1085	0.03573	0.3293
LMG020-0010	Barium (total) (ug/L)	M	172	33.08	3	21.21	3.429	0.1617
LMG020-0010	Biological Oxygen Demand (5 day) (total) (mg/L)	O	78	2	0.5	0.5333	0.1898	0.3558
LMG020-0010	Cadmium (total) (ug/L)	M	172	2	0.1	0.675	0.2842	0.4211
LMG020-0010	Calcium (as CaCO3) (mg/L)	O	169	152	70	103.8	14.19	0.1367
LMG020-0010	Chlordane, Alpha- (ug/L)	P	23	0.1	0.05	0.08043	0.02495	0.3102
LMG020-0010	Chlordane, Gamma- (ug/L)	P	22	0.1	0.05	0.07955	0.02516	0.3163
LMG020-0010	Chloride (mg/L)	N	170	45	10	13.6	3.278	0.241

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0010	Chlorpyrifos (ug/L)	P	23	0.07	0.035	0.0563	0.01747	0.3102
LMG020-0010	Chromium (total) (ug/L)	M	168	13	0.6	2.422	1.766	0.7291
LMG020-0010	Chromium, Hexavalent (ug/L)	M	130	5	5	5	0	0
LMG020-0010	Clomazone (ug/L)	P	26	0.05	0.025	0.04135	0.01213	0.2934
LMG020-0010	COD (mg/L)	O	168	25	2.5	6.742	3.629	0.5383
LMG020-0010	Copper (dissolved) (ug/L)	M	53	71	2	24.99	15.45	0.6182
LMG020-0010	Copper (total) (ug/L)	M	172	90	1.5	31.45	15.68	0.4985
LMG020-0010	Cyanide (total) (mg/L)	N	169	0.012	0.0025	0.002621	0.0008408	0.3208
LMG020-0010	Di(2-ethylhexyl)adipate (ug/L)	P	20	2	0.105	0.7745	0.8847	1.142
LMG020-0010	E. Coli (CFU/100mL)	E	84	960	0.5	5.73	2.204	0.4526
LMG020-0010	Endrin (ug/L)	P	23	0.22	0.11	0.177	0.05489	0.3102
LMG020-0010	Fluoride (mg/L)	N	166	0.3	0.05	0.128	0.05334	0.4168
LMG020-0010	Hardness (as CaCO3) (mg/L)	O	170	176	101	139.2	11.67	0.08381
LMG020-0010	Heptachlor Epoxide (ug/L)	P	25	0.08	0.04	0.0656	0.0196	0.2987
LMG020-0010	Hexachlorobenzene (ug/L)	P	23	0.08	0.04	0.06435	0.01996	0.3102
LMG020-0010	Iron (dissolved) (ug/L)	M	121	580	4	27.74	77.49	2.793
LMG020-0010	Iron (total) (ug/L)	M	88	2829	10	192.7	340.9	1.769
LMG020-0010	Lead (dissolved) (ug/L)	M	53	1.3	0.5	0.5945	0.1847	0.3107
LMG020-0010	Lead (total) (ug/L)	M	172	14	0.5	2.78	1.719	0.6186
LMG020-0010	Lindane (ug/L)	P	27	0.04	0.02	0.03333	0.009608	0.2882
LMG020-0010	Manganese (dissolved) (ug/L)	M	53	3.82	0.5	0.8934	0.8391	0.9392
LMG020-0010	Manganese (total) (ug/L)	M	84	56.85	1	6.012	7.567	1.258
LMG020-0010	Mercury (total) (ug/L)	M	172	0.1	0.05	0.0718	0.02487	0.3463
LMG020-0010	Methoxychlor (ug/L)	P	27	0.18	0.09	0.15	0.04323	0.2882
LMG020-0010	Metolachlor (ug/L)	P	26	0.06	0.03	0.04962	0.01455	0.2934
LMG020-0010	Nickel (total) (ug/L)	M	172	9	0.7	2.267	1.106	0.4876
LMG020-0010	Nitrogen, Ammonia (mg/L)	N	172	0.8	0.05	0.05523	0.0575	1.041
LMG020-0010	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	171	0.6	0.05	0.3247	0.1004	0.3093
LMG020-0010	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	62	0.8	0.05	0.1971	0.1247	0.6328
LMG020-0010	Nonachlor, cis- (ug/L)	P	22	0.1	0.05	0.07955	0.02516	0.3163
LMG020-0010	Nonachlor, trans- (ug/L)	P	24	0.1	0.05	0.08125	0.02473	0.3043
LMG020-0010	Oxychlordane (ug/L)	P	27	0.1	0.05	0.08333	0.02402	0.2882
LMG020-0010	Pentachlorophenol (ug/L)	P	20	2.1	1.05	1.628	0.5359	0.3293
LMG020-0010	pH (SU)	O	174	8.89	6.8	8.05	0.2908	0.03613
LMG020-0010	Phenolics (total) (ug/L)	O	113	16	2.5	3	1.833	0.6112
LMG020-0010	Phosphorus (total) (mg/L)	N	172	0.14	0.015	0.01838	0.01474	0.8018
LMG020-0010	Selenium (total) (ug/L)	N	171	3	0.25	0.7403	0.4391	0.5932
LMG020-0010	Silica (dissolved) (reactive) (mg/L)	O	89	4	0.3	1.389	1.001	0.7206
LMG020-0010	Silica (total) (reactive) (mg/L)	O	69	4	0.5	1.022	0.6776	0.6631
LMG020-0010	Silver (total) (ug/L)	M	171	7.9	0.25	2.593	1.908	0.736
LMG020-0010	Sodium (mg/L)	O	61	12	6.57	8.337	1.175	0.1409
LMG020-0010	Sodium (ug/L)	O	111	11000	5.4	3096	3626	1.171
LMG020-0010	Sulfate (mg/L)	N	170	33	21	25.36	1.947	0.07678
LMG020-0010	Total Dissolved Solids (mg/L)	O	169	931	57	176.7	60.8	0.3441
LMG020-0010	Total Organic Carbon (mg/L)	O	58	3.5	1.2	1.713	0.3249	0.1897
LMG020-0010	Total Solids (mg/L)	O	169	931	143	192.2	59.72	0.3108
LMG020-0010	Total Suspended Solids (mg/L)	O	70	114	2	8.729	14.79	1.694
LMG020-0010	Zinc (dissolved) (ug/L)	M	49	6.8	1.5	3.518	1.478	0.42
LMG020-0010	Zinc (total) (ug/L)	M	170	340	2.25	11.55	32.67	2.829
LMG020-0011	Alkalinity (as CaCO3) (mg/L)	O	167	207	80	118.3	13.61	0.1151
LMG020-0011	Aluminum (dissolved) (ug/L)	M	65	91	15	17.97	11.37	0.6329
LMG020-0011	Aluminum (total) (ug/L)	M	65	513	68	189.7	101.8	0.5367
LMG020-0011	Arsenic (dissolved) (ug/L)	N	65	2.02	0.4	1.337	0.5174	0.3871
LMG020-0011	Arsenic (total) (ug/L)	N	79	3.48	0.6	1.773	0.5835	0.3292
LMG020-0011	Barium (dissolved) (ug/L)	M	65	26.2	2.5	22.14	2.913	0.1316
LMG020-0011	Barium (total) (ug/L)	M	167	40	10	24.07	4.306	0.1789
LMG020-0011	Biological Oxygen Demand (5 day) (total) (mg/L)	O	76	7.2	0.5	1.954	1.194	0.6109
LMG020-0011	Cadmium (dissolved) (ug/L)	M	65	1	0.1	0.5646	0.1634	0.2894
LMG020-0011	Cadmium (total) (ug/L)	M	168	4.5	0.1	0.6949	0.394	0.567
LMG020-0011	Calcium (as CaCO3) (mg/L)	O	167	176	90	126.1	15.2	0.1206
LMG020-0011	Chloride (mg/L)	N	167	125	18	43.64	11.84	0.2714
LMG020-0011	Chromium (total) (dissolved) (ug/L)	M	46	4.04	0.6	1.804	0.8542	0.4735
LMG020-0011	Chromium (total) (ug/L)	M	167	73	1.5	4.731	5.903	1.248
LMG020-0011	COD (mg/L)	O	166	51.5	5.6	13.17	5.598	0.425
LMG020-0011	Conductivity (uS/cm)	O	158	974	311	505.7	117.7	0.2328
LMG020-0011	Copper (dissolved) (ug/L)	M	75	11	1.03	1.813	1.305	0.7197
LMG020-0011	Copper (total) (ug/L)	M	85	18	2	4.406	2.281	0.5178
LMG020-0011	Cyanide (Free) (mg/L)	N	24	0.0025	0.0025	0.0025	4.757E-10	1.903E-07
LMG020-0011	Cyanide (total) (mg/L)	N	158	0.059	0.0025	0.004867	0.005124	1.053
LMG020-0011	E. Coli (CFU/100mL)	E	85	45000	5	181.9	9.255	0.4276
LMG020-0011	Fluoride (mg/L)	N	163	0.7	0.2	0.448	0.08338	0.1861
LMG020-0011	Hardness (as CaCO3) (mg/L)	O	167	276	119	174.3	20.35	0.1167
LMG020-0011	Iron (dissolved) (ug/L)	M	116	630	4	57.17	104.5	1.827
LMG020-0011	Iron (total) (ug/L)	M	168	6320	170	1221	1035	0.8475
LMG020-0011	Lead (dissolved) (ug/L)	M	95	4.1	0.5	0.6765	0.38	0.5617
LMG020-0011	Lead (total) (ug/L)	M	168	36.2	0.85	7.003	6.023	0.8601
LMG020-0011	Manganese (dissolved) (ug/L)	M	75	77.8	0.35	21.71	14.85	0.6841
LMG020-0011	Manganese (total) (ug/L)	M	73	158	19	53.91	31.43	0.583
LMG020-0011	Mercury (total) (ug/L)	M	168	5	0.05	0.1027	0.381	3.711
LMG020-0011	Nickel (dissolved) (ug/L)	M	65	3	0.7	1.934	0.5801	0.3
LMG020-0011	Nickel (total) (ug/L)	M	168	7.8	1.42	2.944	0.9543	0.3241

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0011	Nitrogen, Ammonia (mg/L)	N	169	1.5	0.05	0.4891	0.2492	0.5094
LMG020-0011	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	168	4.3	0.4	2.053	1.12	0.5454
LMG020-0011	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	162	2.2	0.4	0.9544	0.3143	0.3293
LMG020-0011	Oxygen (dissolved) (mg/L)	O	158	12.2	3.44	7.994	1.771	0.2216
LMG020-0011	pH (SU)	O	322	8.5	6.8	7.795	0.3138	0.04026
LMG020-0011	Phenolics (total) (ug/L)	O	22	13	2.5	4.25	3.074	0.7232
LMG020-0011	Phosphorus (total) (mg/L)	N	169	0.38	0.015	0.05326	0.03584	0.673
LMG020-0011	Selenium (dissolved) (ug/L)	N	65	3.02	0.6	1.381	0.581	0.4206
LMG020-0011	Selenium (total) (ug/L)	N	167	3	0.25	0.7978	0.4556	0.571
LMG020-0011	Silica (dissolved) (reactive) (mg/L)	O	85	10	1	4.007	2.072	0.5171
LMG020-0011	Silica (total) (reactive) (mg/L)	O	70	6	1.3	2.806	0.9356	0.3335
LMG020-0011	Silver (total) (ug/L)	M	167	8.8	0.25	2.733	1.937	0.7087
LMG020-0011	Sodium (mg/L)	O	58	73	16	27.21	7.679	0.2823
LMG020-0011	Sodium (ug/L)	O	110	36000	9	11100	12940	1.166
LMG020-0011	Sulfate (mg/L)	N	66	61	36	48.85	6.164	0.1262
LMG020-0011	Total Dissolved Solids (mg/L)	O	65	397	252	291.1	25.73	0.08839
LMG020-0011	Total Organic Carbon (mg/L)	O	55	4.6	1.9	2.807	0.4867	0.1734
LMG020-0011	Total Solids (mg/L)	O	166	453	209	301.7	36.79	0.122
LMG020-0011	Total Suspended Solids (mg/L)	O	182	87	1	10.21	8.928	0.874
LMG020-0011	Turbidity (NTU)	O	104	30	2.53	9.393	4.531	0.4824
LMG020-0011	Water Temperature (°C)	O	160	30.7	2.65	17.32	6.859	0.3959
LMG020-0011	Zinc (dissolved) (ug/L)	M	70	40.3	1.5	7.372	5.091	0.6906
LMG020-0011	Zinc (total) (ug/L)	M	156	158	10	37.28	23.67	0.6349
LMG020-0012	Alkalinity (as CaCO3) (mg/L)	O	174	198	42	114.6	13.52	0.1179
LMG020-0012	Aluminum (dissolved) (ug/L)	M	68	53.1	15	17.66	7.374	0.4176
LMG020-0012	Aluminum (total) (ug/L)	M	67	869	25	178.6	153.4	0.859
LMG020-0012	Arsenic (dissolved) (ug/L)	N	68	2.26	0.6	1.07	0.6147	0.5745
LMG020-0012	Arsenic (total) (ug/L)	N	170	4.93	0.5	1.334	0.5216	0.3909
LMG020-0012	Barium (dissolved) (ug/L)	M	68	25	2.5	21.14	2.583	0.1222
LMG020-0012	Barium (total) (ug/L)	M	171	52	12	22.48	3.415	0.1519
LMG020-0012	Biological Oxygen Demand (5 day) (total) (mg/L)	O	80	5.8	0.5	1.246	0.8872	0.7119
LMG020-0012	Cadmium (dissolved) (ug/L)	M	68	1	0.1	0.5691	0.1686	0.2963
LMG020-0012	Cadmium (total) (ug/L)	M	86	2	0.1	0.6145	0.3277	0.5333
LMG020-0012	Calcium (as CaCO3) (mg/L)	O	173	192	84	109.8	16.11	0.1467
LMG020-0012	Chloride (mg/L)	N	70	77	17	27.38	7.206	0.2632
LMG020-0012	Chromium (dissolved) (ug/L)	M	20	5.8	1.4	2.365	1.157	0.4891
LMG020-0012	Chromium (total) (dissolved) (ug/L)	M	48	3.28	0.6	1.561	0.8496	0.5443
LMG020-0012	Chromium (total) (ug/L)	M	169	13.5	0.6	3.091	2.155	0.6974
LMG020-0012	COD (mg/L)	O	171	42	2.5	10.12	5.87	0.5801
LMG020-0012	Conductivity (uS/cm)	O	160	1106	292	424.6	150.2	0.3537
LMG020-0012	Copper (dissolved) (ug/L)	M	78	8.5	0.5	1.783	1.068	0.5993
LMG020-0012	Copper (total) (ug/L)	M	87	12.6	2	4.215	1.998	0.4741
LMG020-0012	Cyanide (Chlorine Amenable) (mg/L)	N	38	0.009	-0.1	-0.01513	0.03417	-2.258
LMG020-0012	Cyanide (Free) (mg/L)	N	40	0.0025	0.0025	0.0025	7.074E-10	0.000000283
LMG020-0012	Cyanide (total) (mg/L)	N	172	0.039	0.0025	0.004738	0.004044	0.8535
LMG020-0012	E. Coli (CFU/100mL)	E	96	19000	5	57.52	8.196	0.5191
LMG020-0012	Fluoride (mg/L)	N	64	0.7	0.4	0.5172	0.07186	0.1389
LMG020-0012	Hardness (as CaCO3) (mg/L)	O	174	294	108	156.5	20.34	0.13
LMG020-0012	Iron (dissolved) (ug/L)	M	119	490	4	37.25	78.71	2.113
LMG020-0012	Iron (total) (ug/L)	M	172	13100	120	838.4	1461	1.742
LMG020-0012	Lead (dissolved) (ug/L)	M	78	0.75	0.5	0.6026	0.1238	0.2054
LMG020-0012	Lead (total) (ug/L)	M	172	95	0.85	5.097	9.917	1.946
LMG020-0012	Manganese (dissolved) (ug/L)	M	78	28.6	0.5	8.877	5.062	0.5702
LMG020-0012	Manganese (total) (ug/L)	M	69	390	12	43.34	59.34	1.369
LMG020-0012	Mercury (total) (ug/L)	M	172	0.3	0.05	0.07326	0.0303	0.4136
LMG020-0012	Nickel (dissolved) (ug/L)	M	68	3	0.7	1.269	0.7637	0.6017
LMG020-0012	Nickel (total) (ug/L)	M	88	6.72	0.7	2.252	1.033	0.4587
LMG020-0012	Nitrogen, Ammonia (mg/L)	N	175	1.4	0.2	0.5521	0.239	0.4329
LMG020-0012	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	174	4.9	0.3	1.563	1.407	0.8999
LMG020-0012	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	62	1.5	0.3	0.737	0.1927	0.2614
LMG020-0012	Oxygen (dissolved) (mg/L)	O	160	12.32	4.1	8.682	1.521	0.1752
LMG020-0012	pH (SU)	O	331	8.73	0.5	7.989	0.5364	0.06714
LMG020-0012	Phenolics (total) (ug/L)	O	112	13	2.5	3.576	2.27	0.6349
LMG020-0012	Phosphorus (total) (mg/L)	N	175	0.38	0.015	0.0248	0.03139	1.266
LMG020-0012	Selenium (dissolved) (ug/L)	N	68	7.6	0.6	1.418	0.9526	0.6719
LMG020-0012	Selenium (total) (ug/L)	N	171	5.1	0.25	0.8306	0.5925	0.7133
LMG020-0012	Silica (dissolved) (reactive) (mg/L)	O	89	11	0.5	2.343	1.589	0.6783
LMG020-0012	Silica (total) (reactive) (mg/L)	O	72	5	0.5	1.636	0.8406	0.5138
LMG020-0012	Silver (total) (ug/L)	M	171	6.4	0.25	2.669	1.934	0.7247
LMG020-0012	Sulfate (mg/L)	N	67	39	27	31.69	2.536	0.08004
LMG020-0012	Total Dissolved Solids (mg/L)	O	67	300	205	226.4	13.52	0.05971
LMG020-0012	Total Organic Carbon (mg/L)	O	58	8.1	1.3	2.059	0.8498	0.4126
LMG020-0012	Total Solids (mg/L)	O	173	653	171	232.9	43.91	0.1885
LMG020-0012	Total Suspended Solids (mg/L)	O	173	86	2	8.925	9.151	1.025
LMG020-0012	Turbidity (NTU)	O	104	126	2.59	10.72	12.66	1.181
LMG020-0012	Water Temperature (?C)	O	162	31.6	2.14	17.89	7.038	0.3935
LMG020-0012	Zinc (dissolved) (ug/L)	M	72	7.4	1.5	3.137	1.544	0.4923
LMG020-0012	Zinc (total) (ug/L)	M	83	542	3	33.58	69.41	2.067
LMG020-0013	4,4-DDT (ug/L)	P	21	0.1	0.05	0.07381	0.02559	0.3467
LMG020-0013	Acetochlor (ug/L)	P	23	0.06	0.03	0.04696	0.01521	0.3238
LMG020-0013	Alachlor (ug/L)	P	25	0.05	0.025	0.039	0.01267	0.3248

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0013	Alkalinity (as CaCO3) (mg/L)	O	103	199	90	110.7	13.17	0.119
LMG020-0013	Arsenic (total) (ug/L)	N	103	2.2	0.5	1.154	0.4637	0.4019
LMG020-0013	Barium (total) (ug/L)	M	102	28.4	18	22.15	2.484	0.1121
LMG020-0013	Biological Oxygen Demand (5 day) (total) (mg/L)	O	50	0.5	0.5	0.5	0	0
LMG020-0013	Cadmium (total) (ug/L)	M	102	0.5	0.1	0.4681	0.0685	0.1463
LMG020-0013	Calcium (as CaCO3) (mg/L)	O	100	151	82	105.7	13.46	0.1274
LMG020-0013	Chlordane, Alpha- (ug/L)	P	24	0.1	0.05	0.07708	0.02545	0.3301
LMG020-0013	Chlordane, Gamma- (ug/L)	P	22	0.1	0.05	0.07727	0.02548	0.3298
LMG020-0013	Chloride (mg/L)	N	103	21	9	14.12	2.066	0.1463
LMG020-0013	Chlorpyrifos (ug/L)	P	24	0.07	0.035	0.05396	0.01781	0.3301
LMG020-0013	Chromium (total) (ug/L)	M	103	12	0.6	1.702	1.734	1.019
LMG020-0013	Chromium, Hexavalent (ug/L)	M	66	5	5	5	0	0
LMG020-0013	Clomazone (ug/L)	P	25	0.05	0.025	0.039	0.01267	0.3248
LMG020-0013	COD (mg/L)	O	101	26	2.5	6.416	3.485	0.5432
LMG020-0013	Copper (dissolved) (ug/L)	M	58	189	1.5	91.85	48.56	0.5287
LMG020-0013	Copper (total) (ug/L)	M	103	223	2	94.57	45.37	0.4797
LMG020-0013	Cyanide (total) (mg/L)	N	101	0.0025	0.0025	0.0025	1.404E-09	5.616E-07
LMG020-0013	E. Coli (CFU/100mL)	E	28	1100	0.5	7.039	4.281	0.7452
LMG020-0013	Endrin (ug/L)	P	22	0.22	0.11	0.165	0.05629	0.3412
LMG020-0013	Fluoride (mg/L)	N	100	0.3	0.05	0.1348	0.05907	0.4381
LMG020-0013	Hardness (as CaCO3) (mg/L)	O	103	233	98	141.8	18.01	0.127
LMG020-0013	Heptachlor (ug/L)	P	21	0.14	0.07	0.1033	0.03582	0.3467
LMG020-0013	Heptachlor Epoxide (ug/L)	P	25	0.08	0.04	0.064	0.02	0.3125
LMG020-0013	Hexachlorobenzene (ug/L)	P	25	0.08	0.04	0.0624	0.02026	0.3248
LMG020-0013	Iron (dissolved) (ug/L)	M	109	360	4	10.65	35.62	3.345
LMG020-0013	Iron (total) (ug/L)	M	103	540	10	121	100.7	0.8319
LMG020-0013	Lead (dissolved) (ug/L)	M	58	0.75	0.5	0.5517	0.1022	0.1852
LMG020-0013	Lead (total) (ug/L)	M	103	7.4	0.5	1.815	1.637	0.9019
LMG020-0013	Lindane (ug/L)	P	25	0.04	0.02	0.0312	0.01013	0.3248
LMG020-0013	Manganese (dissolved) (ug/L)	M	58	3.59	0.35	0.8631	0.8202	0.9503
LMG020-0013	Manganese (total) (ug/L)	M	103	16.6	1	6.054	3.302	0.5455
LMG020-0013	Mercury (total) (ug/L)	M	103	0.1	0.05	0.08786	0.02154	0.2452
LMG020-0013	Methoxychlor (ug/L)	P	24	0.18	0.09	0.1388	0.04581	0.3301
LMG020-0013	Metolachlor (ug/L)	P	26	0.06	0.03	0.04731	0.01511	0.3195
LMG020-0013	Nickel (total) (ug/L)	M	103	3	0.7	1.66	0.9992	0.602
LMG020-0013	Nitrogen, Ammonia (mg/L)	N	103	0.9	0.05	0.05825	0.08375	1.438
LMG020-0013	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	102	2.1	0.2	0.3536	0.1896	0.5363
LMG020-0013	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	103	0.3	0.05	0.1678	0.06348	0.3784
LMG020-0013	Nonachlor, cis- (ug/L)	P	23	0.1	0.05	0.07609	0.02554	0.3356
LMG020-0013	Nonachlor, trans- (ug/L)	P	23	0.1	0.05	0.07609	0.02554	0.3356
LMG020-0013	Oxychlordane (ug/L)	P	25	0.1	0.05	0.078	0.02533	0.3248
LMG020-0013	pH (SU)	O	103	8.9	7.4	8.147	0.2332	0.02862
LMG020-0013	Phenolics (total) (ug/L)	O	53	10	2.5	3.066	1.487	0.4851
LMG020-0013	Phosphorus (total) (mg/L)	N	103	0.09	0.015	0.0167	0.00876	0.5246
LMG020-0013	Selenium (total) (ug/L)	N	101	3	0.5	0.9071	0.4764	0.5252
LMG020-0013	Silica (dissolved) (reactive) (mg/L)	O	35	5	0.5	2.071	1.357	0.6553
LMG020-0013	Silica (total) (reactive) (mg/L)	O	66	4	0.5	1.177	0.6679	0.5673
LMG020-0013	Silver (total) (ug/L)	M	102	8	0.25	1.325	1.568	1.183
LMG020-0013	Sodium (mg/L)	O	67	11	5.9	7.562	1.121	0.1483
LMG020-0013	Sodium (ug/L)	O	35	9100	5800	6874	802.7	0.1168
LMG020-0013	Sulfate (mg/L)	N	103	31	20	24.42	2.162	0.08853
LMG020-0013	Total Dissolved Solids (mg/L)	O	103	293	157	179.1	17.1	0.09546
LMG020-0013	Total Organic Carbon (mg/L)	O	66	2.4	1.2	1.706	0.2633	0.1543
LMG020-0013	Total Solids (mg/L)	O	103	321	167	190.8	18.72	0.09811
LMG020-0013	Total Suspended Solids (mg/L)	O	102	25	2	4.873	3.73	0.7656
LMG020-0013	Zinc (dissolved) (ug/L)	M	53	5.8	1.5	3.334	1.396	0.4186
LMG020-0013	Zinc (total) (ug/L)	M	103	23	2.25	3.765	3.057	0.8118
LMG020-0014	Alkalinity (as CaCO3) (mg/L)	O	155	164	60	103.2	21.68	0.2101
LMG020-0014	Arsenic (total) (ug/L)	N	73	3.4	0.5	1.6	0.6372	0.3981
LMG020-0014	Biological Oxygen Demand (5 day) (total) (mg/L)	O	71	4.6	0.5	1.297	0.8284	0.6386
LMG020-0014	Cadmium (total) (ug/L)	M	75	1	0.1	0.5027	0.1179	0.2346
LMG020-0014	Chloride (mg/L)	N	66	62	14	40.89	10.07	0.2463
LMG020-0014	Chromium (total) (ug/L)	M	72	5	0.6	1.18	1.068	0.9051
LMG020-0014	COD (mg/L)	O	153	42.4	2.5	16.55	7.203	0.4353
LMG020-0014	Conductivity (uS/cm)	O	148	741	251	381.7	81.32	0.2131
LMG020-0014	Copper (total) (ug/L)	M	74	11	0.5	1.489	1.322	0.8875
LMG020-0014	Cyanide (total) (mg/L)	N	145	0.018	0.0025	0.002876	0.001953	0.6791
LMG020-0014	E. Coli (CFU/100mL)	E	64	900	5	9.423	3.56	0.5661
LMG020-0014	Hardness (as CaCO3) (mg/L)	O	155	190	82	135.6	25.02	0.1846
LMG020-0014	Iron (total) (ug/L)	M	72	170	10	44	34.78	0.7904
LMG020-0014	Lead (total) (ug/L)	M	75	11	0.5	1.499	1.561	1.042
LMG020-0014	Mercury (total) (ug/L)	M	75	0.1	0.05	0.096	0.01366	0.1423
LMG020-0014	Nickel (total) (ug/L)	M	75	3.3	0.7	1.155	0.7871	0.6815
LMG020-0014	'Nitrogen, Ammonia (mg/L)'	N	156	0.8	0.005	0.08689	0.1032	1.187
LMG020-0014	'Nitrogen, Nitrate+Nitrite (total) (mg/L)'	N	155	1.3	0.005	0.164	0.1653	1.008
LMG020-0014	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	65	1.2	0.2945	0.5082	0.1982	0.3901
LMG020-0014	Oxygen (dissolved) (mg/L)	O	148	14.92	7.5	10.69	1.71	0.1599
LMG020-0014	pH (SU)	O	299	9.7	7	8.346	0.47	0.05632
LMG020-0014	Phosphorus (total) (mg/L)	N	156	0.12	0.015	0.02329	0.01602	0.6877
LMG020-0014	Sulfate (mg/L)	N	66	46	25	33.4	4.521	0.1353
LMG020-0014	Total Dissolved Solids (mg/L)	O	66	283	170	223.5	32.36	0.1448

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG020-0014	Total Organic Carbon (mg/L)	O	65	6.1	2.3	3.748	0.9352	0.2495
LMG020-0014	Total Solids (mg/L)	O	155	340	147	225.4	32.78	0.1454
LMG020-0014	Total Suspended Solids (mg/L)	O	155	36	2	6.658	6.264	0.9408
LMG020-0014	Turbidity (NTU)	O	102	354	1.5	8.554	34.91	4.082
LMG020-0014	Water Temperature (deg)	O	151	30.7	0.3	13.73	8.519	0.6203
LMG020-0014	Zinc (total) (ug/L)	M	75	30	2.25	3.881	3.635	0.9367
LMG040-0003	Alkalinity (as CaCO3) (mg/L)	O	174	274	90	190.6	34.19	0.1794
LMG040-0003	Arsenic (total) (ug/L)	N	62	4.08	0.5	2.057	0.7649	0.3719
LMG040-0003	Biological Oxygen Demand (5 day)	O	81	8	0.5	2.983	1.742	0.5839
LMG040-0003	Cadmium (total) (ug/L)	M	63	0.5	0.1	0.4786	0.06582	0.1375
LMG040-0003	Calcium (as CaCO3) (mg/L)	O	172	308	80	203.1	39.78	0.1958
LMG040-0003	Chloride (mg/L)	N	174	235	17	92.92	37.57	0.4043
LMG040-0003	Chromium (total) (ug/L)	M	170	30	0.6	3.301	3.732	1.131
LMG040-0003	COD (mg/L)	O	174	55	6.8	27.74	7.137	0.2573
LMG040-0003	Conductivity (uS/cm)	O	160	1320	306	780.1	196.3	0.2517
LMG040-0003	Copper (total) (ug/L)	M	62	9	1.54	2.836	1.274	0.4492
LMG040-0003	Cyanide (total) (mg/L)	N	171	0.014	0.0025	0.002965	0.001699	0.5731
LMG040-0003	E. Coli (CFU/100mL)	E	104	11000	0.5	282	6.562	0.3334
LMG040-0003	Hardness (as CaCO3) (mg/L)	O	176	463	122	304.1	54.59	0.1795
LMG040-0003	Iron (total) (ug/L)	M	62	3220	256	960.2	675.5	0.7035
LMG040-0003	Lead (total) (ug/L)	M	67	15	0.5	2.339	2.585	1.105
LMG040-0003	Mercury (total) (ug/L)	M	62	0.1	0.1	0.1	6.009E-08	6.009E-07
LMG040-0003	Nickel (total) (ug/L)	M	63	6.09	2.23	3.34	0.7881	0.2359
LMG040-0003	'Nitrogen, Ammonia (mg/L)'	N	175	0.8	0.05	0.1812	0.1349	0.7444
LMG040-0003	'Nitrogen, Nitrate+Nitrite (tota	N	175	5.1	0.3	2.238	0.9399	0.4199
LMG040-0003	'Nitrogen, Total Kjeldahl (TNK)	N	174	2.2	0.4	1.295	0.3271	0.2527
LMG040-0003	Oxygen (dissolved) (mg/L)	O	161	16.67	4.92	9.414	2.461	0.2614
LMG040-0003	pH (SU)	O	332	8.9	6.65	7.836	0.3166	0.0404
LMG040-0003	Phosphorus (total) (mg/L)	N	175	3.14	0.05	0.1868	0.2334	1.249
LMG040-0003	Silica (dissolved) (reactive) (m	O	88	26	0.5	11.46	5.967	0.5206
LMG040-0003	Silica (total) (reactive) (mg/L)	O	74	15	1	8.428	2.736	0.3246
LMG040-0003	Sodium (mg/L)	O	63	130	8.1	54.75	20.55	0.3754
LMG040-0003	Sulfate (mg/L)	N	109	155	33	93.93	20.68	0.2201
LMG040-0003	Total Dissolved Solids (mg/L)	O	63	794	285	567.2	100.1	0.1765
LMG040-0003	Total Organic Carbon (mg/L)	O	64	12.4	5.3	7.948	1.423	0.1791
LMG040-0003	Total Solids (mg/L)	O	63	879	317	565.8	98.85	0.1747
LMG040-0003	Total Suspended Solids (mg/L)	O	173	240	2	30.18	30.86	1.023
LMG040-0003	Turbidity (NTU)	O	173	736	5	34.87	78.38	2.248
LMG040-0003	Water Temperature (C)	O	110	29.52	0.09	13.61	8.193	0.602
LMG040-0003	Zinc (total) (ug/L)	M	165	54	3	10.52	7.226	0.6866
LMG050-0006	Alkalinity (as CaCO3) (mg/L)	O	63	346	84	234.8	42.78	0.1822
LMG050-0006	Arsenic (total) (ug/L)	N	157	9.6	0.3	1.526	0.9621	0.6306
LMG050-0006	Biological Oxygen Demand (5 day) (total) (mg/L)	O	155	5	0.5	1.245	0.9535	0.7661
LMG050-0006	Cadmium (total) (ug/L)	M	74	0.5	0.1	0.4779	0.06679	0.1398
LMG050-0006	Chloride (mg/L)	N	61	158	29	75.95	19.05	0.2509
LMG050-0006	Chromium (total) (ug/L)	M	60	70	0.6	3.453	6.213	1.8
LMG050-0006	COD (mg/L)	O	155	70.6	7.9	19.95	8.998	0.4511
LMG050-0006	Conductivity (uS/cm)	O	158	1038	333	755.4	146.5	0.1939
LMG050-0006	Copper (total) (ug/L)	M	160	9.3	1.33	2.868	1.494	0.5209
LMG050-0006	Cyanide (total) (mg/L)	N	60	0.011	0.0025	0.002706	0.0009783	0.3615
LMG050-0006	E. Coli (CFU/100mL)	E	155	7100	0.5	355.4	5.395	0.287
LMG050-0006	Hardness (as CaCO3) (mg/L)	O	86	460	118	341.3	61.42	0.18
LMG050-0006	Iron (total) (ug/L)	M	157	7660	212	1394	1257	0.9015
LMG050-0006	Lead (total) (ug/L)	M	60	14	0.5	2.199	2.673	1.216
LMG050-0006	Mercury (total) (ug/L)	M	61	0.1	0.05	0.07387	0.02506	0.3392
LMG050-0006	Nickel (total) (ug/L)	M	155	8.49	1.66	3.099	1.147	0.3701
LMG050-0006	Nitrogen, Ammonia (mg/L)	N	61	0.8	0.05	0.106	0.1132	1.068
LMG050-0006	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	158	9.2	0.4	2.129	0.9641	0.4529
LMG050-0006	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	158	2.1	0.2	0.7349	0.3435	0.4674
LMG050-0006	Oxygen (dissolved) (mg/L)	O	60	15	5.5	9.7	2.08	0.2144
LMG050-0006	pH (SU)	O	161	8.69	6.78	7.96	0.2828	0.03553
LMG050-0006	Phenolics (total) (ug/L)	O	315	15	2.5	2.829	1.495	0.5285
LMG050-0006	Phosphorus (total) (mg/L)	N	105	0.63	0.015	0.1281	0.07041	0.5497
LMG050-0006	Sulfate (mg/L)	N	158	130	43	88.77	16.62	0.1873
LMG050-0006	Total Dissolved Solids (mg/L)	O	60	648	292	536.2	66.38	0.1238
LMG050-0006	Total Organic Carbon (mg/L)	O	60	10	3.2	5.087	1.578	0.3102
LMG050-0006	Total Solids (mg/L)	O	60	973	266	550.7	84.88	0.1541
LMG050-0006	Total Suspended Solids (mg/L)	O	156	656	2	34.11	58.03	1.701
LMG050-0006	Turbidity (NTU)	O	156	221	4.1	26.83	33.03	1.231
LMG050-0006	Water Temperature (deg)	O	110	29.46	0.2	12.5	7.561	0.605
LMG050-0006	Zinc (total) (ug/L)	M	164	51	3	9.927	8.809	0.8874
LMG050-0007	4,4-DDT (ug/L)	P	62	0.1	0.05	0.08864	0.02145	0.242
LMG050-0007	Acetochlor (ug/L)	P	22	0.06	0.03	0.054	0.01225	0.2268
LMG050-0007	Alachlor (ug/L)	P	25	0.05	0.025	0.04537	0.009896	0.2181
LMG050-0007	Alkalinity (as CaCO3) (mg/L)	O	27	328	96	239.4	40.08	0.1675
LMG050-0007	Arsenic (total) (ug/L)	N	165	2.78	0.5	1.511	0.6027	0.3989
LMG050-0007	Atrazine (Aatrex) (ug/L)	P	73	0.56	0.07	0.1435	0.1028	0.7161
LMG050-0007	Biological Oxygen Demand (5 day) (total) (mg/L)	O	20	4	0.5	1.147	0.8471	0.7387
LMG050-0007	Cadmium (total) (ug/L)	M	79	1	0.1	0.5215	0.1585	0.304
LMG050-0007	Chlordane, Alpha- (ug/L)	P	72	0.1	0.05	0.09	0.02041	0.2268
LMG050-0007	Chlordane, Gamma- (ug/L)	P	25	0.1	0.05	0.08913	0.02109	0.2366

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG050-0007	Chloride (mg/L)	N	23	128	31	81.07	19.56	0.2412
LMG050-0007	Chlorpyrifos (ug/L)	P	64	0.07	0.035	0.063	0.01429	0.2268
LMG050-0007	Chromium (total) (ug/L)	M	25	5	0.6	1.29	1.003	0.7774
LMG050-0007	Clomazone (ug/L)	P	73	0.05	0.025	0.04537	0.009896	0.2181
LMG050-0007	COD (mg/L)	O	27	46.3	6.7	19.61	7.062	0.3601
LMG050-0007	Conductivity (uS/cm)	O	164	1086	306	787.4	162.3	0.2062
LMG050-0007	Copper (total) (ug/L)	M	157	9.4	1.24	3.199	1.375	0.4297
LMG050-0007	Cyanide (total) (mg/L)	N	71	0.0025	0.0025	0.0025	1.407E-09	5.627E-07
LMG050-0007	Desisopropylatrazine (ug/L)	P	72	1	0.5	0.875	0.2221	0.2539
LMG050-0007	E. Coli (CFU/100mL)	E	20	8800	2.5	441.8	4.903	0.261
LMG050-0007	Endrin (ug/L)	P	88	0.22	0.11	0.198	0.04491	0.2268
LMG050-0007	Hardness (as CaCO3) (mg/L)	O	25	500	128	353.8	62.77	0.1774
LMG050-0007	Heptachlor (ug/L)	P	165	0.14	0.07	0.1241	0.03003	0.242
LMG050-0007	Heptachlor Epoxide (ug/L)	P	22	0.08	0.04	0.07231	0.01608	0.2223
LMG050-0007	Hexachlorobenzene (ug/L)	P	26	0.08	0.04	0.07231	0.01608	0.2223
LMG050-0007	Iron (total) (ug/L)	M	26	3500	200	1160	704.8	0.6073
LMG050-0007	Lead (total) (ug/L)	M	66	13	0.5	2.111	2.432	1.152
LMG050-0007	Lindane (ug/L)	P	72	0.04	0.02	0.0363	0.007917	0.2181
LMG050-0007	Mercury (total) (ug/L)	M	27	0.1	0.05	0.09521	0.01482	0.1557
LMG050-0007	Methoxychlor (ug/L)	P	73	0.18	0.09	0.1627	0.03617	0.2223
LMG050-0007	Metolachlor (ug/L)	P	26	0.22	0.03	0.06036	0.03339	0.5532
LMG050-0007	Nickel (total) (ug/L)	M	28	6.17	1.96	2.941	0.8235	0.28
LMG050-0007	Nitrogen, Ammonia (mg/L)	N	72	1.047	0.01	0.09501	0.1029	1.083
LMG050-0007	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	165	6.2	0.4	2.897	1.149	0.3966
LMG050-0007	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	165	1.664	0.2	0.8213	0.2874	0.3499
LMG050-0007	Nonachlor, cis- (ug/L)	P	65	0.1	0.05	0.08958	0.02074	0.2315
LMG050-0007	Nonachlor, trans- (ug/L)	P	24	0.1	0.05	0.08958	0.02074	0.2315
LMG050-0007	Oxychlordane (ug/L)	P	24	0.1	0.05	0.09074	0.01979	0.2181
LMG050-0007	Oxygen (dissolved) (mg/L)	O	27	15.35	5.71	9.776	1.915	0.1959
LMG050-0007	Pendimethalin (ug/L)	P	158	0.1	0.05	0.0881	0.02182	0.2477
LMG050-0007	pH (SU)	O	21	8.8	1.6	7.904	0.4518	0.05717
LMG050-0007	Phosphorus (total) (mg/L)	N	320	0.32	0.04	0.1326	0.05394	0.4067
LMG050-0007	Sulfate (mg/L)	N	165	123	58	92.61	15.29	0.1651
LMG050-0007	Terbufos (ug/L)	P	64	0.07	0.035	0.06167	0.01528	0.2477
LMG050-0007	Total Dissolved Solids (mg/L)	O	21	678	348	568	66.9	0.1178
LMG050-0007	Total Organic Carbon (mg/L)	O	65	9.5	2.5	5.401	1.639	0.3035
LMG050-0007	Total Solids (mg/L)	O	65	717	10	560.5	94.77	0.1691
LMG050-0007	Total Suspended Solids (mg/L)	O	164	144	2	22.93	20.9	0.9114
LMG050-0007	Turbidity (NTU)	O	164	179	2.9	18.99	22.06	1.162
LMG050-0007	Water Temperature (deg)	O	105	28.53	0.3	12.3	6.99	0.5682
LMG050-0007	Zinc (total) (ug/L)	M	161	41	3	9.25	5.833	0.6306
LMG060-0005	Alkalinity (as CaCO3) (mg/L)	O	72	259	83	162	24.08	0.1486
LMG060-0005	Arsenic (total) (ug/L)	N	176	3.1	0.5	1.612	0.5675	0.352
LMG060-0005	Biological Oxygen Demand (5 day)	O	64	6	0.5	1.736	0.9851	0.5674
LMG060-0005	Cadmium (total) (ug/L)	M	86	0.5	0.1	0.4792	0.06489	0.1354
LMG060-0005	Calcium (as CaCO3) (mg/L)	O	65	232	75	169.9	23.45	0.138
LMG060-0005	Chloride (mg/L)	N	174	110	12	45.49	12.79	0.2812
LMG060-0005	Chromium (total) (ug/L)	M	174	15	0.6	2.79	2.398	0.8596
LMG060-0005	COD (mg/L)	O	175	53	7	15.84	6.835	0.4314
LMG060-0005	Conductivity (uS/cm)	O	177	1224	326	565.2	96.49	0.1707
LMG060-0005	Copper (total) (ug/L)	M	162	6.37	1.6	2.606	0.9471	0.3634
LMG060-0005	Cyanide (total) (mg/L)	N	65	0.015	0.0025	0.002954	0.001591	0.5387
LMG060-0005	E. Coli (CFU/100mL)	E	174	5500	0.5	128.3	5.804	0.3623
LMG060-0005	Hardness (as CaCO3) (mg/L)	O	109	342	107	238.5	31.53	0.1322
LMG060-0005	Iron (total) (ug/L)	M	178	14000	260	1086	1314	1.21
LMG060-0005	Lead (total) (ug/L)	M	175	9.8	0.5	2.121	1.71	0.8062
LMG060-0005	Mercury (total) (ug/L)	M	69	0.1	0.1	0.1	6.008E-08	6.008E-07
LMG060-0005	Nickel (total) (ug/L)	M	64	6.65	1.45	2.734	0.8931	0.3267
LMG060-0005	Nitrogen, Ammonia (mg/L)	N	66	162	0.05	1.129	12.16	10.77
LMG060-0005	Nitrogen, Nitrate+Nitrite (total	N	177	73	0.5	1.364	5.425	3.978
LMG060-0005	Nitrogen, Total Kjeldahl (TNK) (	N	177	5.5	0.2	0.748	0.4435	0.593
LMG060-0005	Oxygen (dissolved) (mg/L)	O	178	13.6	4.55	9	1.752	0.1947
LMG060-0005	pH (SU)	O	163	8.7	6.8	7.96	0.2632	0.03306
LMG060-0005	Phosphorus (total) (mg/L)	N	336	0.36	0.015	0.06657	0.04063	0.6104
LMG060-0005	Silica (dissolved) (reactive) (m	O	178	20	2	8.192	3.821	0.4664
LMG060-0005	Silica (total) (reactive) (mg/L)	O	89	11	3.6	6.041	1.686	0.2791
LMG060-0005	Sodium (mg/L)	O	76	37.9	17	23.04	5.077	0.2203
LMG060-0005	Sodium (ug/L)	O	66	39000	4.9	9026	10770	1.194
LMG060-0005	Sulfate (mg/L)	N	110	85	46	60.18	9.025	0.15
LMG060-0005	Total Dissolved Solids (mg/L)	O	65	443	290	356.6	35.23	0.09878
LMG060-0005	Total Organic Carbon (mg/L)	O	66	8.3	2.5	3.823	1.364	0.3569
LMG060-0005	Total Solids (mg/L)	O	63	596	269	376.9	47.19	0.1252
LMG060-0005	Total Suspended Solids (mg/L)	O	175	308	2	19.24	31.41	1.632
LMG060-0005	Turbidity (NTU)	O	175	125	4.3	17.74	19.2	1.082
LMG060-0005	Water Temperature (deg)	O	110	29.63	1.2	15.16	7.202	0.4751
LMG060-0005	Zinc (total) (ug/L)	M	167	31	3	6.931	5.917	0.8537
LMG060-0007	4,4-DDD (ug/L)	P	64	0.05	0.0045	0.0409	0.01867	0.4565
LMG060-0007	4,4-DDT (ug/L)	P	20	0.05	0.0045	0.0409	0.01867	0.4565
LMG060-0007	Aldrin (ug/L)	P	20	0.05	0.002	0.0404	0.0197	0.4876
LMG060-0007	Alkalinity (as CaCO3) (mg/L)	O	20	259	88	166.8	25.16	0.1508
LMG060-0007	Alpha-BHC (ug/L)	P	173	0.05	0.003	0.0406	0.01929	0.4751

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG060-0007	Arsenic (total) (ug/L)	N	20	7.8	0.5	1.475	0.7611	0.5162
LMG060-0007	Barium (total) (ug/L)	M	171	70	20	37.73	7.794	0.2066
LMG060-0007	Beta-BHC (ug/L)	P	171	0.05	0.003	0.0406	0.01929	0.4751
LMG060-0007	Biological Oxygen Demand (5 day) (total) (mg/L)	O	20	5.5	0.5	2.002	1.033	0.516
LMG060-0007	Cadmium (total) (ug/L)	M	82	2	0.1	0.6801	0.2988	0.4393
LMG060-0007	Calcium (as CaCO3) (mg/L)	O	171	231	104	181.2	23.62	0.1303
LMG060-0007	Chloride (mg/L)	N	65	147	13	58	20.06	0.3458
LMG060-0007	Chromium (total) (ug/L)	M	172	20	0.6	3.073	2.834	0.922
LMG060-0007	Chromium, Hexavalent (ug/L)	M	171	10	5	5.04	0.4472	0.08873
LMG060-0007	COD (mg/L)	O	125	60	8.5	19.41	7.933	0.4087
LMG060-0007	Conductivity (uS/cm)	O	172	963	253	603.8	101.9	0.1688
LMG060-0007	Copper (dissolved) (ug/L)	M	178	4	1.02	1.761	0.7205	0.4091
LMG060-0007	Copper (total) (ug/L)	M	54	17	1	3.687	2.222	0.6027
LMG060-0007	Cyanide (total) (mg/L)	N	170	0.013	0.0025	0.002826	0.001386	0.4904
LMG060-0007	Delta-BHC (ug/L)	P	167	0.05	0.0025	0.0405	0.01949	0.4813
LMG060-0007	Dieldrin (ug/L)	P	20	0.05	0.003	0.0406	0.01929	0.4751
LMG060-0007	E. Coli (CFU/100mL)	E	20	4000	0.5	206.8	5.887	0.3325
LMG060-0007	Endosulfan I (ug/L)	P	108	0.05	0.002	0.0404	0.0197	0.4876
LMG060-0007	Endosulfan II (ug/L)	P	20	0.05	0.0025	0.0405	0.01949	0.4813
LMG060-0007	Endosulfan Sulfate (ug/L)	P	20	0.05	0.002	0.0404	0.0197	0.4876
LMG060-0007	Endrin (ug/L)	P	20	0.005	0.003	0.0046	0.0008208	0.1784
LMG060-0007	Endrin Aldehyde (ug/L)	P	20	0.25	0.0015	0.2003	0.102	0.5091
LMG060-0007	Fluoride (mg/L)	N	20	1.1	0.1	0.492	0.1828	0.3715
LMG060-0007	Hardness (as CaCO3) (mg/L)	O	169	360	113	252.9	36	0.1423
LMG060-0007	Heptachlor Epoxide (ug/L)	P	176	0.01	0.0015	0.0083	0.003488	0.4203
LMG060-0007	Iron (dissolved) (ug/L)	M	20	4500	4	129	456.4	3.538
LMG060-0007	Iron (total) (ug/L)	M	114	17000	10	1254	1626	1.296
LMG060-0007	Lead (dissolved) (ug/L)	M	171	2.5	0.5	0.6102	0.2757	0.4519
LMG060-0007	Lead (total) (ug/L)	M	59	19	0.5	4.872	4.018	0.8247
LMG060-0007	Manganese (dissolved) (ug/L)	M	177	122	0.5	45	25.13	0.5585
LMG060-0007	Manganese (total) (ug/L)	M	95	230	30	98.92	31.99	0.3233
LMG060-0007	Mercury (total) (ug/L)	M	159	0.2	0.05	0.07281	0.02668	0.3665
LMG060-0007	Nickel (total) (ug/L)	M	171	31	0.9	3.2	2.542	0.7943
LMG060-0007	Nitrogen, Ammonia (mg/L)	N	171	1.1	0.05	0.2017	0.1136	0.5634
LMG060-0007	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	174	38	0.6	1.544	2.852	1.847
LMG060-0007	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	173	3.3	0.3867	0.9102	0.3637	0.3996
LMG060-0007	Oxygen (dissolved) (mg/L)	O	174	14.38	5.14	8.851	1.798	0.2031
LMG060-0007	pH (SU)	O	180	8.8	6.86	7.915	0.2665	0.03367
LMG060-0007	Phenolics (total) (ug/L)	O	348	12	2.5	2.911	1.455	0.4998
LMG060-0007	Phosphorus (total) (mg/L)	N	107	0.51	0.015	0.09606	0.05943	0.6186
LMG060-0007	Propachlor (ug/L)	P	174	0.05	0.0115	0.0423	0.0158	0.3735
LMG060-0007	Selenium (total) (ug/L)	N	20	3	0.25	0.8114	0.4957	0.6109
LMG060-0007	Silica (dissolved) (reactive) (mg/L)	O	168	22	1	9.03	4.476	0.4957
LMG060-0007	Silica (total) (reactive) (mg/L)	O	91	16.2	1	6.841	2.486	0.3633
LMG060-0007	Silver (total) (ug/L)	M	70	7.7	0.25	2.83	2.066	0.7301
LMG060-0007	Sodium (mg/L)	O	170	79.5	19	33.78	11.02	0.3264
LMG060-0007	Sodium (ug/L)	O	59	70000	5.7	12250	15560	1.271
LMG060-0007	Sulfate (mg/L)	N	111	95	39	69.11	12.3	0.178
LMG060-0007	Total Dissolved Solids (mg/L)	O	60	602	128	381.2	63.23	0.1659
LMG060-0007	Total Organic Carbon (mg/L)	O	170	9.1	2.7	5.004	1.764	0.3525
LMG060-0007	Total Solids (mg/L)	O	60	621	198	423.9	65.76	0.1551
LMG060-0007	Total Suspended Solids (mg/L)	O	172	210	2	23.55	29.52	1.253
LMG060-0007	Turbidity (NTU)	O	172	257	4	23.57	35.91	1.524
LMG060-0007	Water Temperature (°C)	O	126	28.56	1.77	15.43	7.423	0.481
LMG060-0007	Zinc (dissolved) (ug/L)	M	184	8.2	1.5	3.73	1.714	0.4595
LMG060-0007	Zinc (total) (ug/L)	M	50	240	3	14.67	21.83	1.489
LMG060-0008	Alkalinity (as CaCO3) (mg/L)	O	159	328	74	226.7	40.39	0.1782
LMG060-0008	Arsenic (total) (ug/L)	N	175	4.7	0.5	1.338	0.6285	0.4697
LMG060-0008	Biological Oxygen Demand (5 day) (total) (mg/L)	O	169	4.2	0.5	1.171	0.9153	0.7819
LMG060-0008	Cadmium (total) (ug/L)	M	85	0.5	0.1	0.4783	0.06501	0.1359
LMG060-0008	Chloride (mg/L)	N	69	145	35	61.66	21.43	0.3475
LMG060-0008	Chromium (total) (ug/L)	M	66	19	0.6	2.741	2.628	0.9588
LMG060-0008	COD (mg/L)	O	168	35.7	5.6	15.97	7.453	0.4668
LMG060-0008	Conductivity (uS/cm)	O	79	980	213	663.5	122	0.1839
LMG060-0008	Copper (total) (ug/L)	M	161	5.83	0.5	1.899	0.9436	0.4968
LMG060-0008	Cyanide (total) (mg/L)	N	68	0.009	0.0025	0.002632	0.0008403	0.3192
LMG060-0008	E. Coli (CFU/100mL)	E	68	9700	2.5	285.7	5.277	0.2941
LMG060-0008	Hardness (as CaCO3) (mg/L)	O	102	416	32	311.5	58.21	0.1869
LMG060-0008	Iron (total) (ug/L)	M	175	4630	394	1105	803.9	0.7277
LMG060-0008	Lead (total) (ug/L)	M	68	11	0.5	1.426	1.808	1.268
LMG060-0008	Mercury (total) (ug/L)	M	70	0.1	0.05	0.09853	0.008511	0.08638
LMG060-0008	Nickel (total) (ug/L)	M	68	5.77	0.7	2.448	0.8874	0.3624
LMG060-0008	Nitrogen, Ammonia (mg/L)	N	69	0.4	0.025	0.08671	0.07513	0.8664
LMG060-0008	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	175	4.4	0.4	1.464	0.6986	0.4772
LMG060-0008	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	174	1.4	0.1	0.5874	0.2557	0.4352
LMG060-0008	Oxygen (dissolved) (mg/L)	O	66	15.8	5.51	9.54	2.093	0.2194
LMG060-0008	pH (SU)	O	162	8.6	6.8	7.934	0.25	0.03151
LMG060-0008	Phosphorus (total) (mg/L)	N	334	0.38	0.015	0.08636	0.05274	0.6107
LMG060-0008	Sulfate (mg/L)	N	174	111	36	68.59	14.78	0.2156
LMG060-0008	Total Dissolved Solids (mg/L)	O	66	616	313	468.2	53.59	0.1145
LMG060-0008	Total Organic Carbon (mg/L)	O	66	10.7	2.2	4.846	2.048	0.4226

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG060-0008	Total Solids (mg/L)	O	66	702	266	474.4	67.54	0.1424
LMG060-0008	Total Suspended Solids (mg/L)	O	174	144	2	20.47	20.55	1.004
LMG060-0008	Turbidity (NTU)	O	173	103	3.59	17.82	15.43	0.8655
LMG060-0008	Water Temperature (deg)	O	110	29.67	0.2	12.76	7.35	0.5759
LMG060-0008	Zinc (total) (ug/L)	M	165	46	3	5.592	5.985	1.07
LMG070-0004	4,4-DDT (ug/L)	P	69	0.1	0.05	0.07609	0.02554	0.3356
LMG070-0004	Acetochlor (ug/L)	P	23	0.06	0.03	0.04826	0.01497	0.3102
LMG070-0004	Alachlor (ug/L)	P	23	0.05	0.025	0.03942	0.0126	0.3195
LMG070-0004	Alkalinity (as CaCO3) (mg/L)	O	26	254	79	116.5	23.85	0.2047
LMG070-0004	Aluminum (total) (ug/L)	M	152	1080	25	154.8	188.6	1.218
LMG070-0004	Arsenic (total) (ug/L)	N	78	2.3	0.5	1.032	0.3812	0.3695
LMG070-0004	Barium (total) (ug/L)	M	155	50	17	21.91	3.291	0.1502
LMG070-0004	Biological Oxygen Demand (5 day) (total) (mg/L)	O	154	2.4	0.5	0.5392	0.2482	0.4603
LMG070-0004	Cadmium (total) (ug/L)	M	74	3.4	0.1	0.6519	0.3358	0.5151
LMG070-0004	Calcium (as CaCO3) (mg/L)	O	155	214	77	106.9	17.53	0.164
LMG070-0004	Chlordane, Alpha- (ug/L)	P	149	0.36	0.05	0.0904	0.06134	0.6785
LMG070-0004	Chlordane, Gamma- (ug/L)	P	25	0.39	0.05	0.095	0.07022	0.7392
LMG070-0004	Chloride (mg/L)	N	22	44	9	13.66	3.032	0.2219
LMG070-0004	Chlorpyrifos (ug/L)	P	153	0.07	0.035	0.0546	0.01773	0.3248
LMG070-0004	Chromium (total) (ug/L)	M	25	12	0.6	2.226	1.744	0.7833
LMG070-0004	Chromium, Hexavalent (ug/L)	M	155	10	5	5.042	0.4583	0.09091
LMG070-0004	Clomazone (ug/L)	P	119	0.05	0.025	0.03942	0.0126	0.3195
LMG070-0004	COD (mg/L)	O	26	23.5	2.5	6.714	3.358	0.5001
LMG070-0004	Copper (dissolved) (ug/L)	M	155	4	0.5	0.9758	1.004	1.029
LMG070-0004	Copper (total) (ug/L)	M	55	29	0.5	2.203	3.16	1.434
LMG070-0004	Cyanide (total) (mg/L)	N	155	0.009	0.0025	0.00263	0.0008339	0.3171
LMG070-0004	Desisopropylatrazine (ug/L)	P	154	4.8	0.5	0.9429	0.9185	0.9741
LMG070-0004	E. Coli (CFU/100mL)	E	21	2000	0.5	7.105	3.211	0.5949
LMG070-0004	E. Coli (MPN/100mL)	E	86	1	0.5	0.5	1	-3.517E-07
LMG070-0004	Endrin (ug/L)	P	23	0.22	0.11	0.1696	0.05599	0.3301
LMG070-0004	Fluoride (mg/L)	N	24	0.3	0.05	0.1138	0.05242	0.4607
LMG070-0004	Hardness (as CaCO3) (mg/L)	O	151	303	99	142.1	20.21	0.1422
LMG070-0004	Heptachlor (ug/L)	P	153	0.25	0.07	0.1132	0.04643	0.4103
LMG070-0004	Heptachlor Epoxide (ug/L)	P	22	0.34	0.04	0.0776	0.05783	0.7452
LMG070-0004	Hexachlorobenzene (ug/L)	P	25	3	0.04	0.1787	0.5758	3.221
LMG070-0004	Iron (dissolved) (ug/L)	M	26	860	4	26.25	89.05	3.393
LMG070-0004	Iron (total) (ug/L)	M	118	1470	10	190.8	248.6	1.303
LMG070-0004	Lead (dissolved) (ug/L)	M	155	2.22	0.5	0.5813	0.2466	0.4242
LMG070-0004	Lead (total) (ug/L)	M	55	8.6	0.5	2.395	1.603	0.6693
LMG070-0004	Lindane (ug/L)	P	155	0.04	0.02	0.03154	0.01008	0.3195
LMG070-0004	Manganese (dissolved) (ug/L)	M	26	16	0.35	1.56	2.449	1.57
LMG070-0004	Manganese (total) (ug/L)	M	55	120	1.5	9.805	16.18	1.65
LMG070-0004	Mercury (total) (ug/L)	M	153	0.1	0.05	0.0729	0.02499	0.3428
LMG070-0004	Methoxychlor (ug/L)	P	155	0.18	0.09	0.1404	0.0456	0.3248
LMG070-0004	Metolachlor (ug/L)	P	25	0.31	0.03	0.05815	0.05241	0.9013
LMG070-0004	Nickel (total) (ug/L)	M	27	6	0.7	2.131	1.03	0.4834
LMG070-0004	Nitrogen, Ammonia (mg/L)	N	155	0.2	0.05	0.0529	0.02073	0.3919
LMG070-0004	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	155	2.7	0.05	0.335	0.2081	0.6211
LMG070-0004	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	155	0.8	0.05	0.1897	0.1251	0.6592
LMG070-0004	Nonachlor, cis- (ug/L)	P	155	0.19	0.05	0.08292	0.03368	0.4062
LMG070-0004	Nonachlor, trans- (ug/L)	P	24	0.34	0.05	0.08917	0.0589	0.6605
LMG070-0004	Oxychlordane (ug/L)	P	24	0.1	0.05	0.07885	0.02519	0.3195
LMG070-0004	Pendimethalin (ug/L)	P	26	0.1	0.05	0.0775	0.02552	0.3293
LMG070-0004	pH (SU)	O	20	8.7	7.1	8.012	0.2669	0.03332
LMG070-0004	Phenolics (total) (ug/L)	O	158	9	2.5	2.675	0.9067	0.339
LMG070-0004	Phosphorus (total) (mg/L)	N	103	0.42	0.015	0.01954	0.03392	1.736
LMG070-0004	Selenium (total) (ug/L)	N	153	3	0.25	0.775	0.43	0.5549
LMG070-0004	Silica (dissolved) (reactive) (mg/L)	O	153	10	0.5	1.767	1.448	0.8192
LMG070-0004	Silica (total) (reactive) (mg/L)	O	80	2.3	0.5	1.19	0.5955	0.5003
LMG070-0004	Silver (total) (ug/L)	M	61	6.1	0.25	2.351	1.812	0.7709
LMG070-0004	Sodium (mg/L)	O	154	10.9	6	7.222	0.876	0.1213
LMG070-0004	Sodium (ug/L)	O	61	7900	5.3	3160	3234	1.023
LMG070-0004	Sulfate (mg/L)	N	93	80	20	24.38	4.947	0.2029
LMG070-0004	Terbufos (ug/L)	P	151	0.07	0.035	0.05167	0.01791	0.3467
LMG070-0004	Total Dissolved Solids (mg/L)	O	21	442	131	175.5	23.91	0.1362
LMG070-0004	Total Organic Carbon (mg/L)	O	149	21.7	1.1	2.47	3.597	1.456
LMG070-0004	Total Solids (mg/L)	O	60	514	143	193.4	42.06	0.2175
LMG070-0004	Total Suspended Solids (mg/L)	O	152	76	2	7.762	10.3	1.327
LMG070-0004	Zinc (dissolved) (ug/L)	M	151	5.1	1.5	2.521	1.308	0.5189
LMG070-0004	Zinc (total) (ug/L)	M	51	30	2.25	5.151	3.937	0.7644
LMG070-0005	Alkalinity (as CaCO3) (mg/L)	O	154	270	112	205.3	27.71	0.135
LMG070-0005	Aluminum (total) (ug/L)	M	162	2300	25	341.1	419	1.228
LMG070-0005	Arsenic (total) (ug/L)	N	84	2.44	0.5	1.124	0.5647	0.5023
LMG070-0005	Biological Oxygen Demand (5 day) (total) (mg/L)	O	76	4.5	0.5	1.053	0.8084	0.7676
LMG070-0005	Cadmium (total) (ug/L)	M	79	1.1	0.1	0.489	0.1123	0.2297
LMG070-0005	Chloride (mg/L)	N	86	134	38	54.49	18.64	0.3421
LMG070-0005	Chromium (total) (ug/L)	M	66	17	0.6	2.615	2.458	0.9402
LMG070-0005	COD (mg/L)	O	164	47.3	2.5	16.23	8.099	0.4991
LMG070-0005	Conductivity (uS/cm)	O	164	951	40	614	106.5	0.1734
LMG070-0005	Copper (dissolved) (ug/L)	M	161	5.8	0.5	1.135	0.8041	0.7085
LMG070-0005	Copper (total) (ug/L)	M	81	7.2	0.5	1.812	1.049	0.5793

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG070-0005	Cyanide (Free) (mg/L)	N	86	0.0025	0.0025	0.0025	4.766E-10	1.906E-07
LMG070-0005	Cyanide (total) (mg/L)	N	22	0.01	0.0025	0.002646	0.0008214	0.3104
LMG070-0005	E. Coli (CFU/100mL)	E	164	26100	2.5	321.9	4.483	0.2598
LMG070-0005	E. Coli (MPN/100mL)	E	87	2420	0.5	222.4	9.154	0.4097
LMG070-0005	Hardness (as CaCO3) (mg/L)	O	28	384	181	286.2	34.98	0.1222
LMG070-0005	Iron (dissolved) (ug/L)	M	162	137	4	46.47	34.47	0.7417
LMG070-0005	Iron (total) (ug/L)	M	81	4010	258	1064	812.8	0.7642
LMG070-0005	Lead (dissolved) (ug/L)	M	80	0.75	0.5	0.5864	0.1196	0.204
LMG070-0005	Lead (total) (ug/L)	M	81	10	0.5	1.922	1.839	0.9571
LMG070-0005	Manganese (dissolved) (ug/L)	M	87	120	0.5	55.01	24.36	0.4428
LMG070-0005	Manganese (total) (ug/L)	M	81	247	38	97.76	44.64	0.4566
LMG070-0005	Mercury (total) (ug/L)	M	79	0.1	0.05	0.075	0.02508	0.3344
LMG070-0005	Nickel (total) (ug/L)	M	164	6.5	0.7	2.267	1.037	0.4575
LMG070-0005	Nitrogen, Ammonia (mg/L)	N	87	1.6	0.05	0.07982	0.1276	1.598
LMG070-0005	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	164	3.4	0.05	0.5415	0.4901	0.905
LMG070-0005	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	162	2.3	0.1	0.5181	0.3319	0.6405
LMG070-0005	Oxygen (dissolved) (mg/L)	O	67	15.4	5.78	9.76	1.795	0.184
LMG070-0005	pH (SU)	O	162	8.5	6.6	7.92	0.278	0.0351
LMG070-0005	Phenolics (total) (ug/L)	O	321	8	2.5	2.681	0.7848	0.2927
LMG070-0005	Phosphorus (total) (mg/L)	N	105	0.19	0.015	0.04924	0.03406	0.6918
LMG070-0005	Sulfate (mg/L)	N	163	120	42	74.42	16.77	0.2253
LMG070-0005	Total Dissolved Solids (mg/L)	O	66	582	314	436.9	49.8	0.114
LMG070-0005	Total Organic Carbon (mg/L)	O	66	11.4	1.9	4.365	1.853	0.4246
LMG070-0005	Total Solids (mg/L)	O	66	632	342	431.6	53.34	0.1236
LMG070-0005	Total Suspended Solids (mg/L)	O	162	85	2	16.04	16.4	1.023
LMG070-0005	Turbidity (NTU)	O	161	79.9	2.8	15.01	12.69	0.8454
LMG070-0005	Water Temperature (deg)	O	109	29.9	0.2	12.03	6.93	0.576
LMG070-0005	Zinc (dissolved) (ug/L)	M	165	16	1.5	3.076	2.463	0.801
LMG070-0005	Zinc (total) (ug/L)	M	75	19.4	2.25	5.201	3.873	0.7448
LMG070-0007	Alkalinity (as CaCO3) (mg/L)	O	87	259	100	173.1	27.49	0.1588
LMG070-0007	Aluminum (total) (ug/L)	M	162	870	25	239.8	209.5	0.8736
LMG070-0007	Arsenic (total) (ug/L)	N	34	2.71	0.05	1.154	0.4857	0.4208
LMG070-0007	Barium (total) (ug/L)	M	162	85.1	20	50	11.12	0.2224
LMG070-0007	Biological Oxygen Demand (5 day) (total) (mg/L)	O	162	4.6	0.5	1.005	0.8091	0.8049
LMG070-0007	Cadmium (total) (ug/L)	M	76	15	0.038	0.7761	1.306	1.683
LMG070-0007	Calcium (as CaCO3) (mg/L)	O	162	262	108	185.4	32.43	0.1749
LMG070-0007	Chloride (mg/L)	N	65	114	13	50.03	18.63	0.3724
LMG070-0007	Chromium (total) (ug/L)	M	161	30	0.098	2.754	3.085	1.12
LMG070-0007	Chromium, Hexavalent (ug/L)	M	162	10	5	5.041	0.4545	0.09016
LMG070-0007	COD (mg/L)	O	121	41.2	2.5	16.54	7.307	0.4419
LMG070-0007	Conductivity (uS/cm)	O	163	829	335	589.6	109.4	0.1856
LMG070-0007	Copper (dissolved) (ug/L)	M	161	11	0.5	2.435	1.513	0.6214
LMG070-0007	Copper (total) (ug/L)	M	65	18	1.8	3.94	2.325	0.5901
LMG070-0007	Cyanide (total) (mg/L)	N	161	0.015	0.0025	0.002867	0.001486	0.5182
LMG070-0007	E. Coli (CFU/100mL)	E	162	18000	2.5	245.5	6.717	0.3461
LMG070-0007	E. Coli (MPN/100mL)	E	90	1400	0.5	117	8.751	0.4555
LMG070-0007	Fluoride (mg/L)	N	20	0.5	0.05	0.2127	0.05827	0.2739
LMG070-0007	Hardness (as CaCO3) (mg/L)	O	160	364	140	249.7	43.75	0.1752
LMG070-0007	Iron (dissolved) (ug/L)	M	161	2600	4	134	329	2.455
LMG070-0007	Iron (total) (ug/L)	M	123	3400	40	786.7	611.1	0.7768
LMG070-0007	Lead (dissolved) (ug/L)	M	161	0.75	0.0298	0.508	0.183	0.3601
LMG070-0007	Lead (total) (ug/L)	M	65	18	0.25	3.022	2.28	0.7546
LMG070-0007	Manganese (dissolved) (ug/L)	M	162	130	0.5	53.7	34.44	0.6414
LMG070-0007	Manganese (total) (ug/L)	M	104	180	8.6	85.67	37.8	0.4413
LMG070-0007	Mercury (total) (ug/L)	M	162	0.1	0.05	0.07387	0.02506	0.3392
LMG070-0007	Nickel (total) (ug/L)	M	155	8	0.7	2.739	0.8909	0.3253
LMG070-0007	Nitrogen, Ammonia (mg/L)	N	162	2.1	0.005	0.1273	0.1734	1.362
LMG070-0007	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	156	4.5	0.5	1.858	0.6717	0.3614
LMG070-0007	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	156	2.6	0.2	0.6954	0.2937	0.4224
LMG070-0007	Oxygen (dissolved) (mg/L)	O	162	13.5	5.45	9.558	1.885	0.1973
LMG070-0007	pH (SU)	O	163	8.6	6.71	7.897	0.2654	0.0336
LMG070-0007	Phosphorus (total) (mg/L)	N	320	0.28	0.015	0.08006	0.03905	0.4877
LMG070-0007	Selenium (total) (ug/L)	N	163	3	0.25	0.7568	0.4438	0.5864
LMG070-0007	Silica (dissolved) (reactive) (mg/L)	O	161	22	2	11.98	5.513	0.4602
LMG070-0007	Silica (total) (reactive) (mg/L)	O	86	14	3	9.279	2.089	0.2251
LMG070-0007	Silver (total) (ug/L)	M	58	6.7	0.0053	2.365	1.959	0.8284
LMG070-0007	Sodium (mg/L)	O	161	66.6	16	36.81	10.15	0.2757
LMG070-0007	Sodium (ug/L)	O	59	49000	10	12140	13250	1.092
LMG070-0007	Sulfate (mg/L)	N	95	117	28	69.1	18.56	0.2687
LMG070-0007	Total Dissolved Solids (mg/L)	O	66	545	237	410.6	64.46	0.157
LMG070-0007	Total Organic Carbon (mg/L)	O	67	10.4	2.2	4.644	1.688	0.3634
LMG070-0007	Total Solids (mg/L)	O	66	574	209	401.9	76.44	0.1902
LMG070-0007	Total Suspended Solids (mg/L)	O	162	65	2	13.56	12.49	0.9214
LMG070-0007	Turbidity (NTU)	O	161	71.1	3.2	14.43	12.05	0.8349
LMG070-0007	Water Temperature (deg)	O	111	29.46	0.25	13.2	7.519	0.5696
LMG070-0007	Zinc (dissolved) (ug/L)	M	165	15	1.5	5.362	2.438	0.4546
LMG070-0007	Zinc (total) (ug/L)	M	96	1400	2.25	27.82	114.9	4.129
LMG070-0008	Alkalinity (as CaCO3) (mg/L)	O	161	226	82	184.1	25.86	0.1405
LMG070-0008	Arsenic (total) (ug/L)	N	152	2.66	0.5	1.221	0.5429	0.4445
LMG070-0008	Barium (total) (ug/L)	M	68	92.19	20	55.55	10.46	0.1883
LMG070-0008	Biological Oxygen Demand (5 day) (total) (mg/L)	O	153	3	0.5	0.9726	0.5912	0.6079

SITE	PARAM	Param_grp	#Events	MAX	MIN	MEAN	STDEV	CVAR
LMG070-0008	Cadmium (total) (ug/L)	M	73	1.45	0.21	0.5744	0.2248	0.3913
LMG070-0008	Chloride (mg/L)	N	70	147	46	70.83	18.91	0.2669
LMG070-0008	Chromium (total) (ug/L)	M	56	17	0.6	2.824	2.658	0.9413
LMG070-0008	COD (mg/L)	O	152	45	2.5	17.2	7.303	0.4246
LMG070-0008	Conductivity (uS/cm)	O	153	972	338	637.9	107.6	0.1687
LMG070-0008	Copper (dissolved) (ug/L)	M	153	4	0.5	1.736	0.6919	0.3986
LMG070-0008	Copper (total) (ug/L)	M	51	29	1.12	3.674	3.658	0.9957
LMG070-0008	Cyanide (total) (mg/L)	N	69	0.022	0.0025	0.002761	0.001734	0.6279
LMG070-0008	E. Coli (CFU/100mL)	E	153	13000	2.5	291.7	6.488	0.3295
LMG070-0008	E. Coli (MPN/100mL)	E	88	1700	0.5	172.6	8.939	0.4252
LMG070-0008	Hardness (as CaCO3) (mg/L)	O	20	352	90	269.7	39.94	0.1481
LMG070-0008	Iron (dissolved) (ug/L)	M	152	2000	4	143.9	280.2	1.947
LMG070-0008	Iron (total) (ug/L)	M	112	4188	279	999.1	689	0.6896
LMG070-0008	Lead (dissolved) (ug/L)	M	59	2.65	0.5	0.5863	0.31	0.5288
LMG070-0008	Lead (total) (ug/L)	M	51	28.26	0.5	2.379	3.512	1.476
LMG070-0008	Manganese (dissolved) (ug/L)	M	70	127	0.5	65.01	32.98	0.5073
LMG070-0008	Mercury (total) (ug/L)	M	52	0.1	0.05	0.0732	0.02502	0.3418
LMG070-0008	Nickel (total) (ug/L)	M	153	6.86	0.9	2.552	0.8733	0.3422
LMG070-0008	Nitrogen, Ammonia (mg/L)	N	70	1.9	0.05	0.1289	0.1615	1.252
LMG070-0008	Nitrogen, Nitrate+Nitrite (total) (mg/L)	N	154	4.4	0.7	2.309	0.7779	0.3368
LMG070-0008	Nitrogen, Total Kjeldahl (TNK) (mg/L)	N	153	1.8	0.3	0.6864	0.2553	0.3719
LMG070-0008	Oxygen (dissolved) (mg/L)	O	58	13.7	5.99	9.693	1.786	0.1843
LMG070-0008	pH (SU)	O	156	8.4	1.52	7.862	0.4367	0.05555
LMG070-0008	Phenolics (total) (ug/L)	O	303	11	0.5	2.777	1.252	0.4509
LMG070-0008	Phosphorus (total) (mg/L)	N	103	0.35	0.015	0.096	0.0472	0.4916
LMG070-0008	Selenium (total) (ug/L)	N	154	3	0.25	0.802	0.4815	0.6003
LMG070-0008	Silica (dissolved) (reactive) (mg/L)	O	151	26	2	14.4	5.989	0.4161
LMG070-0008	Silica (total) (reactive) (mg/L)	O	85	15	6	10.77	1.648	0.153
LMG070-0008	Silver (total) (ug/L)	M	57	6.9	0.25	2.476	1.906	0.7695
LMG070-0008	Sodium (mg/L)	O	152	81.5	25.5	40.89	9.838	0.2406
LMG070-0008	Sodium (ug/L)	O	58	60000	8.3	15180	15690	1.034
LMG070-0008	Sulfate (mg/L)	N	94	114	44	74.36	14.39	0.1935
LMG070-0008	Total Dissolved Solids (mg/L)	O	56	590	4.3	410.1	68.22	0.1663
LMG070-0008	Total Organic Carbon (mg/L)	O	151	10.6	2.6	4.815	1.577	0.3276
LMG070-0008	Total Solids (mg/L)	O	56	632	203	441.8	62.01	0.1404
LMG070-0008	Total Suspended Solids (mg/L)	O	152	75	2	15.4	13.32	0.8648
LMG070-0008	Turbidity (NTU)	O	151	77.6	3.4	16.33	13.62	0.8343
LMG070-0008	Water Temperature (deg)	O	105	29.87	0.4	12.68	7.301	0.5758
LMG070-0008	Zinc (dissolved) (ug/L)	M	157	24	1.5	6.359	3.458	0.5437
LMG070-0008	Zinc (total) (ug/L)	M	47	102.9	5	15.06	12.22	0.8113
			205					

M = Metals
N = Nonmetals
P = Pesticides
E = E. coli
O = Other

APPENDIX H
TIME TREND ANALYSIS STATISTICS

HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	ECTF	F05	E. Coli (CFU/100mL)	23.02	-5.53E-04	1.09	3.84	-3.39	2.49	0.24	0.31	negative trend (improving)
04040001020	ECTF	F05	pH (SU)	-2116.00	5.91E-02	-0.42	-16.99	17.03	-0.83	0.99	0.43	positive trend (declining)
04040001020	ECTF	F05	Water Temperature (deg)	-2483.00	6.95E-02	1.75	-3.38	3.39	0.36	0.05	0.83	positive trend (declining)
04040001020	IDEM	LMG020-0001	Biological Oxygen Demand (5 day) (total) (	46.23	-1.16E-03	1.42	3.31	-3.08	3.30	-0.03	0.62	negative trend (improving)
04040001020	IDEM	LMG020-0001	Cadmium (dissolved) (ug/L)	7.60	-1.88E-04	-0.03	3.16	-2.91	-1.30	0.75	0.61	negative trend (improving)
04040001020	IDEM	LMG020-0001	Chloride (mg/L)	430.40	-1.02E-02	3.88	4.05	-3.59	1.92	0.53	0.61	negative trend (improving)
04040001020	IDEM	LMG020-0001	Chromium (total) (ug/L)	25.66	-6.55E-04	-0.14	3.94	-3.75	-0.71	-0.08	0.46	negative trend (improving)
04040001020	IDEM	LMG020-0001	COD (mg/L)	508.00	-1.27E-02	1.99	2.30	-2.14	0.46	0.50	0.41	negative trend (improving)
04040001020	IDEM	LMG020-0001	Conductivity (uS/cm)	3694.00	-8.01E-02	-6.83	2.79	-2.26	-0.23	0.46	0.46	negative trend (improving)
04040001020	IDEM	LMG020-0001	Copper (dissolved) (ug/L)	35.90	-9.40E-04	0.42	3.55	-3.46	1.53	0.23	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0001	Copper (total) (ug/L)	40.58	-1.06E-03	0.51	3.14	-3.05	1.62	0.33	0.45	negative trend (improving)
04040001020	IDEM	LMG020-0001	Cyanide (Chlorine Amenable) (mg/L)	1.43	-3.85E-05	-0.01	2.66	-2.67	-1.19	0.61	0.59	negative trend (improving)
04040001020	IDEM	LMG020-0001	Lead (dissolved) (ug/L)	5.82	-1.40E-04	-0.02	3.14	-2.81	-2.23	0.91	0.79	negative trend (improving)
04040001020	IDEM	LMG020-0001	Lead (total) (ug/L)	83.88	-2.21E-03	1.16	4.00	-3.92	1.92	0.11	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0001	Nickel (dissolved) (ug/L)	37.78	-9.80E-04	0.21	4.50	-4.36	1.29	0.53	0.71	negative trend (improving)
04040001020	IDEM	LMG020-0001	Nickel (total) (ug/L)	27.83	-7.03E-04	-0.02	2.42	-2.27	-0.07	0.17	0.34	negative trend (improving)
04040001020	IDEM	LMG020-0001	Nitrogen, Ammonia (mg/L)	83.83	-2.15E-03	-0.78	3.46	-3.31	-1.61	0.50	0.66	negative trend (improving)
04040001020	IDEM	LMG020-0001	Nitrogen, Total Kjeldahl (TNK) (mg/L)	103.00	-2.65E-03	0.37	5.06	-4.84	0.64	0.10	0.61	negative trend (improving)
04040001020	IDEM	LMG020-0001	Oxygen (dissolved) (mg/L)	-37.02	1.19E-03	-1.00	-1.73	2.07	-1.62	0.18	0.39	positive trend (declining)
04040001020	IDEM	LMG020-0001	Phosphorus (total) (mg/L)	0.88	-2.20E-05	0.00	2.18	-2.03	0.16	0.47	0.38	negative trend (improving)
04040001020	IDEM	LMG020-0001	Silica (total) (reactive) (mg/L)	148.80	-3.63E-03	-2.34	2.37	-2.16	-1.69	0.36	0.50	negative trend (improving)
04040001020	IDEM	LMG020-0001	Sulfate (mg/L)	973.10	-2.34E-02	-14.20	3.72	-3.34	-2.44	0.42	0.63	negative trend (improving)
04040001020	IDEM	LMG020-0001	Total Dissolved Solids (mg/L)	2710.00	-6.05E-02	-13.46	3.71	-3.08	-0.89	0.47	0.59	negative trend (improving)
04040001020	IDEM	LMG020-0001	Total Solids (mg/L)	2945.00	-6.59E-02	-8.36	4.33	-3.62	-0.54	0.41	0.61	negative trend (improving)
04040001020	IDEM	LMG020-0001	Turbidity (NTU)	220.00	-5.54E-03	1.12	2.94	-2.76	0.47	-0.09	0.33	negative trend (improving)
04040001020	IDEM	LMG020-0003	Alkalinity (as CaCO3) (mg/L)	270.90	-4.10E-03	-1.15	6.37	-3.48	-0.43	0.30	0.37	negative trend (improving)
04040001020	IDEM	LMG020-0003	Aluminum (dissolved) (ug/L)	244.80	-6.17E-03	7.19	2.89	-2.71	2.80	-0.05	0.41	negative trend (improving)
04040001020	IDEM	LMG020-0003	Aluminum (total) (ug/L)	1143.00	-2.72E-02	-5.89	2.70	-2.40	-0.50	0.19	0.35	negative trend (improving)
04040001020	IDEM	LMG020-0003	Arsenic (dissolved) (ug/L)	13.31	-3.16E-04	0.19	2.55	-2.26	2.35	0.65	0.55	negative trend (improving)
04040001020	IDEM	LMG020-0003	Arsenic (total) (ug/L)	-6.01	2.14E-04	0.25	-3.44	4.44	2.43	0.39	0.53	positive trend (declining)
04040001020	IDEM	LMG020-0003	Barium (total) (ug/L)	-2.91	7.86E-04	0.01	-0.24	2.33	0.01	0.44	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0003	Biological Oxygen Demand (5 day) (total) (	11.41	-2.69E-04	-0.09	2.68	-2.29	-0.45	0.41	0.38	negative trend (improving)
04040001020	IDEM	LMG020-0003	Cadmium (dissolved) (ug/L)	4.98	-1.18E-04	-0.06	3.09	-2.72	-1.67	0.39	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0003	Cadmium (total) (ug/L)	4.99	-1.21E-04	0.01	7.25	-6.38	0.28	0.41	0.64	negative trend (improving)
04040001020	IDEM	LMG020-0003	COD (mg/L)	51.04	-1.06E-03	-0.38	5.38	-4.04	-0.56	0.10	0.35	negative trend (improving)
04040001020	IDEM	LMG020-0003	Conductivity (uS/cm)	-39.56	1.65E-02	-16.12	-0.16	2.36	-1.24	0.44	0.28	positive trend (declining)
04040001020	IDEM	LMG020-0003	Copper (dissolved) (ug/L)	36.71	-9.47E-04	0.43	5.37	-5.13	1.64	-0.03	0.50	negative trend (improving)
04040001020	IDEM	LMG020-0003	Copper (total) (ug/L)	20.53	-4.64E-04	-0.11	5.32	-4.35	-0.39	0.09	0.37	negative trend (improving)
04040001020	IDEM	LMG020-0003	Cyanide (total) (mg/L)	0.02	-5.13E-07	0.00	3.14	-2.53	-2.26	0.36	0.39	negative trend (improving)
04040001020	IDEM	LMG020-0003	Fluoride (mg/L)	-0.24	2.06E-05	-0.01	-0.94	2.87	-0.77	0.40	0.37	positive trend (declining)
04040001020	IDEM	LMG020-0003	Lead (dissolved) (ug/L)	7.59	-1.87E-04	-0.07	5.21	-4.72	-1.07	-0.03	0.45	negative trend (improving)
04040001020	IDEM	LMG020-0003	Manganese (dissolved) (ug/L)	-292.70	8.46E-03	-3.51	-3.33	3.55	-1.26	0.46	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0003	Mercury (total) (ug/L)	-0.33	1.13E-05	0.00	-4.88	6.07	-0.83	0.48	0.67	positive trend (declining)
04040001020	IDEM	LMG020-0003	Nickel (dissolved) (ug/L)	21.87	-5.29E-04	0.11	4.10	-3.70	1.15	0.60	0.57	negative trend (improving)
04040001020	IDEM	LMG020-0003	Nitrogen, Ammonia (mg/L)	4.24	-1.03E-04	-0.10	4.63	-4.07	-2.06	0.48	0.47	negative trend (improving)
04040001020	IDEM	LMG020-0003	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-22.87	7.07E-04	-0.12	-5.31	5.93	-0.91	0.71	0.78	positive trend (declining)
04040001020	IDEM	LMG020-0003	Nitrogen, Total Kjeldahl (TNK) (mg/L)	5.50	-1.25E-04	-0.10	5.24	-4.28	-1.71	0.38	0.46	negative trend (improving)
04040001020	IDEM	LMG020-0003	pH (SU)	6.50	3.68E-05	-0.03	13.37	2.75	-0.87	0.26	0.20	positive trend (declining)
04040001020	IDEM	LMG020-0003	Selenium (total) (ug/L)	-3.98	1.35E-04	0.05	-2.65	3.25	0.58	0.33	0.36	positive trend (declining)
04040001020	IDEM	LMG020-0003	Silver (total) (ug/L)	40.08	-1.04E-03	-0.23	9.52	-8.98	-1.02	0.47	0.78	negative trend (improving)
04040001020	IDEM	LMG020-0003	Total Dissolved Solids (mg/L)	-13.29	9.39E-03	-11.01	-0.09	2.36	-1.45	0.45	0.34	positive trend (declining)
04040001020	IDEM	LMG020-0003	Total Solids (mg/L)	32.16	8.68E-03	-10.06	0.21	2.08	-1.21	0.43	0.30	positive trend (declining)
04040001020	IDEM	LMG020-0003	Turbidity (NTU)	42.38	-9.34E-04	0.29	2.88	-2.33	0.39	0.27	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0004	Alkalinity (as CaCO3) (mg/L)	231.60	-3.01E-03	-2.30	7.04	-3.26	-0.83	0.10	0.28	negative trend (improving)

HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	IDEM	LMG020-0004	Arsenic (dissolved) (ug/L)	17.36	-4.24E-04	0.14	4.21	-3.84	1.22	0.29	0.54	negative trend (improving)
04040001020	IDEM	LMG020-0004	Arsenic (total) (ug/L)	-5.95	2.16E-04	0.19	-4.19	5.42	1.75	0.28	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0004	Barium (dissolved) (ug/L)	-47.36	1.87E-03	-0.12	-1.77	2.60	-0.16	0.20	0.37	positive trend (declining)
04040001020	IDEM	LMG020-0004	Barium (total) (ug/L)	-4.09	8.28E-04	-0.42	-0.39	2.79	-0.49	0.19	0.25	positive trend (declining)
04040001020	IDEM	LMG020-0004	Biological Oxygen Demand (5 day) (total) (	11.49	-2.58E-04	-0.62	3.40	-2.73	-2.37	0.14	0.41	negative trend (improving)
04040001020	IDEM	LMG020-0004	Cadmium (dissolved) (ug/L)	5.16	-1.23E-04	-0.05	3.11	-2.76	-1.38	0.45	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0004	Cadmium (total) (ug/L)	-1.17	4.50E-05	-0.03	-1.42	2.02	-1.28	0.14	0.32	positive trend (declining)
04040001020	IDEM	LMG020-0004	Chloride (mg/L)	-35.06	2.53E-03	-4.30	-0.87	2.25	-1.48	0.33	0.28	positive trend (declining)
04040001020	IDEM	LMG020-0004	COD (mg/L)	43.28	-8.02E-04	-0.82	3.82	-2.53	-0.94	0.25	0.26	negative trend (improving)
04040001020	IDEM	LMG020-0004	Copper (dissolved) (ug/L)	28.04	-7.11E-04	0.16	6.15	-5.79	1.07	0.29	0.65	negative trend (improving)
04040001020	IDEM	LMG020-0004	Cyanide (Free) (mg/L)	-0.01	4.10E-07	0.00	-1.74	2.08	1.60	-0.18	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0004	Cyanide (total) (mg/L)	0.02	-5.42E-07	0.00	3.57	-2.81	-1.11	0.24	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0004	Fluoride (mg/L)	218.30	-5.85E-03	2.38	4.05	-4.04	1.40	0.13	0.44	negative trend (improving)
04040001020	IDEM	LMG020-0004	Hardness (as CaCO3) (mg/L)	58.81	3.77E-03	-3.21	0.96	2.21	-0.70	0.28	0.24	positive trend (declining)
04040001020	IDEM	LMG020-0004	Iron (total) (ug/L)	-4999.00	1.71E-01	138.80	-2.47	3.02	0.90	0.26	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0004	Lead (dissolved) (ug/L)	5.43	-1.30E-04	0.01	6.23	-5.54	0.37	0.48	0.71	negative trend (improving)
04040001020	IDEM	LMG020-0004	Manganese (dissolved) (ug/L)	-434.00	1.23E-02	0.27	-4.08	4.30	0.09	0.48	0.64	positive trend (declining)
04040001020	IDEM	LMG020-0004	Mercury (total) (ug/L)	-0.29	1.03E-05	0.00	-5.15	6.50	-0.58	0.17	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0004	Nickel (dissolved) (ug/L)	25.38	-6.25E-04	0.08	5.32	-4.90	0.73	0.47	0.67	negative trend (improving)
04040001020	IDEM	LMG020-0004	Nitrogen, Ammonia (mg/L)	3.16	-7.23E-05	-0.11	3.55	-2.90	-2.02	0.48	0.37	negative trend (improving)
04040001020	IDEM	LMG020-0004	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-20.38	6.44E-04	-0.11	-4.88	5.51	-1.03	0.80	0.78	positive trend (declining)
04040001020	IDEM	LMG020-0004	Nitrogen, Total Kjeldahl (TNK) (mg/L)	5.02	-1.08E-04	-0.14	4.34	-3.32	-1.95	0.44	0.42	negative trend (improving)
04040001020	IDEM	LMG020-0004	pH (SU)	4.51	8.94E-05	0.02	9.24	6.56	0.53	0.32	0.45	positive trend (declining)
04040001020	IDEM	LMG020-0004	Phosphorus (total) (mg/L)	-0.20	7.99E-06	-0.01	-2.07	2.96	-1.65	0.17	0.28	positive trend (declining)
04040001020	IDEM	LMG020-0004	Selenium (dissolved) (ug/L)	20.75	-5.20E-04	-0.11	3.51	-3.28	-0.92	0.52	0.57	negative trend (improving)
04040001020	IDEM	LMG020-0004	Selenium (total) (ug/L)	-6.02	1.91E-04	0.06	-4.95	5.61	0.77	0.46	0.58	positive trend (declining)
04040001020	IDEM	LMG020-0004	Silica (dissolved) (reactive) (mg/L)	-26.68	8.95E-04	0.26	-2.18	2.55	0.46	0.39	0.39	positive trend (declining)
04040001020	IDEM	LMG020-0004	Silica (total) (reactive) (mg/L)	-5.56	2.49E-04	-0.04	-1.22	2.02	-0.14	0.36	0.34	positive trend (declining)
04040001020	IDEM	LMG020-0004	Silver (total) (ug/L)	39.82	-1.04E-03	-0.13	12.76	-11.90	-0.71	0.51	0.85	negative trend (improving)
04040001020	IDEM	LMG020-0004	Sulfate (mg/L)	-63.93	3.45E-03	-2.25	-1.13	2.28	-1.05	0.11	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0004	Total Solids (mg/L)	-27.73	1.05E-02	-6.31	-0.24	3.20	-0.74	0.32	0.33	positive trend (declining)
04040001020	IDEM	LMG020-0005	Alkalinity (as CaCO3) (mg/L)	239.40	-3.17E-03	-1.99	7.79	-3.69	-0.82	0.21	0.34	negative trend (improving)
04040001020	IDEM	LMG020-0005	Aluminum (total) (ug/L)	765.90	-1.82E-02	-10.62	2.46	-2.18	-1.16	0.09	0.32	negative trend (improving)
04040001020	IDEM	LMG020-0005	Arsenic (dissolved) (ug/L)	14.15	-3.38E-04	0.07	2.92	-2.60	0.93	0.63	0.57	negative trend (improving)
04040001020	IDEM	LMG020-0005	Arsenic (total) (ug/L)	-3.77	1.52E-04	0.05	-3.05	4.38	0.63	0.38	0.45	positive trend (declining)
04040001020	IDEM	LMG020-0005	Barium (total) (ug/L)	-3.68	8.12E-04	0.81	-0.35	2.77	1.04	0.28	0.29	positive trend (declining)
04040001020	IDEM	LMG020-0005	Cadmium (dissolved) (ug/L)	4.96	-1.17E-04	-0.06	3.02	-2.66	-1.56	0.39	0.52	negative trend (improving)
04040001020	IDEM	LMG020-0005	Cadmium (total) (ug/L)	-0.49	2.61E-05	0.00	-1.12	2.23	-0.31	0.09	0.30	positive trend (declining)
04040001020	IDEM	LMG020-0005	Chromium (total) (ug/L)	18.84	-4.25E-04	-0.63	2.93	-2.36	-1.50	0.40	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0005	Conductivity (uS/cm)	75.22	1.40E-02	-33.58	0.33	2.18	-1.86	0.19	0.26	positive trend (declining)
04040001020	IDEM	LMG020-0005	Copper (dissolved) (ug/L)	46.43	-1.21E-03	0.83	4.86	-4.68	2.19	-0.15	0.44	negative trend (improving)
04040001020	IDEM	LMG020-0005	Cyanide (total) (mg/L)	0.04	-9.26E-07	0.00	5.71	-4.97	-1.90	0.32	0.50	negative trend (improving)
04040001020	IDEM	LMG020-0005	E. Coli (CFU/100mL)	20.75	-4.71E-04	-1.12	3.09	-2.42	-3.16	-0.02	0.38	negative trend (improving)
04040001020	IDEM	LMG020-0005	Fluoride (mg/L)	1.88	-3.54E-05	-0.02	3.94	-2.76	-1.40	-0.07	0.39	negative trend (improving)
04040001020	IDEM	LMG020-0005	Iron (dissolved) (ug/L)	1218.00	-3.21E-02	0.27	3.17	-3.05	0.02	0.60	0.54	negative trend (improving)
04040001020	IDEM	LMG020-0005	Iron (total) (ug/L)	2159.00	-4.53E-02	-58.31	4.27	-3.20	-1.48	0.22	0.31	negative trend (improving)
04040001020	IDEM	LMG020-0005	Lead (dissolved) (ug/L)	6.21	-1.51E-04	-0.02	5.75	-5.19	-1.45	0.79	0.81	negative trend (improving)
04040001020	IDEM	LMG020-0005	Manganese (dissolved) (ug/L)	-224.40	6.54E-03	-8.51	-1.91	2.07	-2.92	0.54	0.53	positive trend (declining)
04040001020	IDEM	LMG020-0005	Manganese (total) (ug/L)	-431.50	1.27E-02	-1.52	-2.21	2.42	-0.44	0.58	0.49	positive trend (declining)
04040001020	IDEM	LMG020-0005	Mercury (total) (ug/L)	-0.16	6.86E-06	0.00	-4.25	6.90	0.72	0.24	0.55	positive trend (declining)
04040001020	IDEM	LMG020-0005	Nickel (dissolved) (ug/L)	22.54	-5.47E-04	0.15	4.01	-3.63	1.66	0.63	0.59	negative trend (improving)
04040001020	IDEM	LMG020-0005	Nitrogen, Ammonia (mg/L)	4.39	-1.07E-04	-0.13	5.68	-4.96	-3.00	0.51	0.57	negative trend (improving)
04040001020	IDEM	LMG020-0005	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-19.10	6.07E-04	-0.14	-4.79	5.43	-1.43	0.79	0.78	positive trend (declining)
04040001020	IDEM	LMG020-0005	Nitrogen, Total Kjeldahl (TNK) (mg/L)	6.38	-1.46E-04	-0.09	6.75	-5.52	-1.24	0.14	0.45	negative trend (improving)

HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	IDEM	LMG020-0005	Oxygen (dissolved) (mg/L)	-1.07	2.62E-04	-0.75	-0.27	2.35	-2.77	0.35	0.38	positive trend (declining)
04040001020	IDEM	LMG020-0005	pH (SU)	3.72	1.11E-04	0.09	6.98	7.49	2.26	0.34	0.52	positive trend (declining)
04040001020	IDEM	LMG020-0005	Phosphorus (total) (mg/L)	-0.06	3.64E-06	0.00	-1.10	2.23	-0.42	0.36	0.24	positive trend (declining)
04040001020	IDEM	LMG020-0005	Selenium (dissolved) (ug/L)	19.36	-4.86E-04	-0.03	2.24	-2.10	-0.30	0.78	0.60	negative trend (improving)
04040001020	IDEM	LMG020-0005	Selenium (total) (ug/L)	-5.52	1.76E-04	0.08	-5.13	5.85	1.07	0.40	0.57	positive trend (declining)
04040001020	IDEM	LMG020-0005	Silica (dissolved) (reactive) (mg/L)	-24.59	8.33E-04	0.32	-1.90	2.25	0.65	0.52	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0005	Silver (total) (ug/L)	38.39	-9.98E-04	-0.07	12.40	-11.53	-0.32	0.30	0.77	negative trend (improving)
04040001020	IDEM	LMG020-0005	Turbidity (NTU)	32.74	-6.82E-04	0.31	3.58	-2.73	0.57	0.14	0.31	negative trend (improving)
04040001020	IDEM	LMG020-0005	Zinc (dissolved) (ug/L)	-72.29	2.21E-03	-1.35	-1.91	2.17	-1.65	0.61	0.46	positive trend (declining)
04040001020	IDEM	LMG020-0006	Alkalinity (as CaCO3) (mg/L)	171.90	-1.68E-03	-3.48	8.66	-3.03	-2.29	0.14	0.34	negative trend (improving)
04040001020	IDEM	LMG020-0006	Arsenic (total) (ug/L)	-4.16	1.50E-04	-0.11	-4.33	5.62	-1.41	-0.05	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0006	Barium (total) (ug/L)	-17.13	1.09E-03	-0.57	-3.21	7.36	-1.56	0.30	0.63	positive trend (declining)
04040001020	IDEM	LMG020-0006	Biological Oxygen Demand (5 day) (total) (	1.69	-3.16E-05	-0.02	3.19	-2.14	-0.54	-0.08	0.24	negative trend (improving)
04040001020	IDEM	LMG020-0006	Cadmium (total) (ug/L)	5.23	-1.28E-04	0.00	5.57	-4.88	0.23	0.82	0.77	negative trend (improving)
04040001020	IDEM	LMG020-0006	Chloride (mg/L)	-6.22	5.60E-04	-0.51	-1.31	4.24	-1.43	0.18	0.39	positive trend (declining)
04040001020	IDEM	LMG020-0006	Chromium (total) (ug/L)	51.79	-1.34E-03	-1.49	2.75	-2.55	-0.98	0.00	0.22	negative trend (improving)
04040001020	IDEM	LMG020-0006	Copper (dissolved) (ug/L)	-304.60	8.62E-03	5.34	-3.01	3.17	1.52	0.31	0.57	positive trend (declining)
04040001020	IDEM	LMG020-0006	Iron (dissolved) (ug/L)	1924.00	-5.16E-02	-6.81	5.12	-5.03	-0.43	0.39	0.46	negative trend (improving)
04040001020	IDEM	LMG020-0006	Lead (dissolved) (ug/L)	3.97	-9.13E-05	-0.04	7.15	-6.13	-2.39	0.43	0.82	negative trend (improving)
04040001020	IDEM	LMG020-0006	Lead (total) (ug/L)	26.87	-6.77E-04	0.14	5.25	-4.75	0.45	0.43	0.51	negative trend (improving)
04040001020	IDEM	LMG020-0006	Manganese (dissolved) (ug/L)	20.07	-5.12E-04	-0.26	3.14	-2.99	-1.65	0.58	0.61	negative trend (improving)
04040001020	IDEM	LMG020-0006	Mercury (total) (ug/L)	-0.43	1.41E-05	0.00	-9.74	11.42	-0.49	0.27	0.77	positive trend (declining)
04040001020	IDEM	LMG020-0006	Nickel (total) (ug/L)	15.43	-3.70E-04	0.03	4.27	-3.68	0.26	0.68	0.55	negative trend (improving)
04040001020	IDEM	LMG020-0006	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-0.32	1.88E-05	-0.02	-1.12	2.34	-0.99	0.39	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0006	Nitrogen, Total Kjeldahl (TNK) (mg/L)	0.95	-2.02E-05	-0.03	4.79	-3.66	-2.03	0.09	0.36	negative trend (improving)
04040001020	IDEM	LMG020-0006	pH (SU)	4.72	9.22E-05	0.08	5.66	3.96	1.81	0.49	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0006	Selenium (total) (ug/L)	-3.62	1.24E-04	-0.05	-1.95	2.39	-0.66	0.66	0.36	positive trend (declining)
04040001020	IDEM	LMG020-0006	Silica (dissolved) (reactive) (mg/L)	-13.82	4.42E-04	-0.38	-2.18	2.43	-1.95	0.59	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0006	Silica (total) (reactive) (mg/L)	-16.40	4.74E-04	-0.34	-2.32	2.51	-1.85	0.10	0.39	positive trend (declining)
04040001020	IDEM	LMG020-0006	Silver (total) (ug/L)	41.48	-1.09E-03	-0.15	12.12	-11.40	-0.88	0.54	0.86	negative trend (improving)
04040001020	IDEM	LMG020-0006	Sulfate (mg/L)	36.90	-2.97E-04	-1.48	8.14	-2.35	-4.26	0.13	0.42	negative trend (improving)
04040001020	IDEM	LMG020-0006	Total Dissolved Solids (mg/L)	79.62	2.73E-03	-3.60	2.07	2.55	-1.15	0.01	0.22	positive trend (declining)
04040001020	IDEM	LMG020-0006	Total Organic Carbon (mg/L)	234.40	-6.22E-03	-0.05	19.00	-19.23	-0.45	0.99	2.42	negative trend (improving)
04040001020	IDEM	LMG020-0006	Zinc (dissolved) (ug/L)	25.48	-6.20E-04	-0.11	2.98	-2.70	-0.32	0.10	0.41	negative trend (improving)
04040001020	IDEM	LMG020-0006	Zinc (total) (ug/L)	32.91	-7.60E-04	-0.52	4.14	-3.43	-0.82	0.05	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0008	Alkalinity (as CaCO3) (mg/L)	177.00	-1.80E-03	-3.42	9.58	-3.49	-2.28	0.18	0.36	negative trend (improving)
04040001020	IDEM	LMG020-0008	Arsenic (total) (ug/L)	-2.30	9.93E-05	-0.02	-1.97	3.05	-0.23	0.04	0.24	positive trend (declining)
04040001020	IDEM	LMG020-0008	Barium (total) (ug/L)	-12.35	9.65E-04	-0.49	-2.18	6.07	-1.03	0.15	0.49	positive trend (declining)
04040001020	IDEM	LMG020-0008	Biological Oxygen Demand (5 day) (total) (	2.06	-4.19E-05	0.01	3.60	-2.62	0.17	0.09	0.31	negative trend (improving)
04040001020	IDEM	LMG020-0008	Cadmium (total) (ug/L)	5.20	-1.28E-04	0.03	8.28	-7.24	0.98	0.59	0.74	negative trend (improving)
04040001020	IDEM	LMG020-0008	Chromium (total) (ug/L)	25.56	-6.37E-04	-0.31	5.73	-5.11	-0.98	0.32	0.49	negative trend (improving)
04040001020	IDEM	LMG020-0008	Copper (dissolved) (ug/L)	-80.59	2.33E-03	1.59	-4.03	4.34	2.04	0.17	0.64	positive trend (declining)
04040001020	IDEM	LMG020-0008	Cyanide (total) (mg/L)	0.01	-8.57E-08	0.00	3.87	-2.07	0.63	-0.07	0.16	negative trend (improving)
04040001020	IDEM	LMG020-0008	E. Coli (CFU/100mL)	-8.52	3.01E-04	-0.23	-2.29	2.79	-1.08	-0.05	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0008	Hardness (as CaCO3) (mg/L)	228.40	-2.36E-03	-3.81	6.47	-2.38	-1.27	0.11	0.23	negative trend (improving)
04040001020	IDEM	LMG020-0008	Iron (dissolved) (ug/L)	1466.00	-3.92E-02	2.83	3.73	-3.65	0.17	0.41	0.47	negative trend (improving)
04040001020	IDEM	LMG020-0008	Lead (dissolved) (ug/L)	4.28	-9.96E-05	-0.04	8.35	-7.23	-2.14	0.39	0.84	negative trend (improving)
04040001020	IDEM	LMG020-0008	Lead (total) (ug/L)	22.03	-5.36E-04	-0.42	5.45	-4.73	-1.27	0.19	0.42	negative trend (improving)
04040001020	IDEM	LMG020-0008	Mercury (total) (ug/L)	-0.29	1.03E-05	0.00	-4.41	5.52	-0.23	0.54	0.61	positive trend (declining)
04040001020	IDEM	LMG020-0008	Nickel (total) (ug/L)	11.69	-2.66E-04	0.04	3.93	-3.20	0.22	0.41	0.36	negative trend (improving)
04040001020	IDEM	LMG020-0008	pH (SU)	5.92	5.74E-05	0.02	6.91	2.39	0.40	0.54	0.33	positive trend (declining)
04040001020	IDEM	LMG020-0008	Selenium (total) (ug/L)	-3.67	1.23E-04	0.04	-2.83	3.39	0.70	0.64	0.48	positive trend (declining)
04040001020	IDEM	LMG020-0008	Silica (dissolved) (reactive) (mg/L)	-13.12	4.23E-04	-0.05	-2.36	2.65	-0.23	0.43	0.43	positive trend (declining)
04040001020	IDEM	LMG020-0008	Silica (total) (reactive) (mg/L)	-5.70	1.89E-04	-0.08	-2.54	3.09	-0.42	0.30	0.46	positive trend (declining)

HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	IDEM	LMG020-0008	Silver (total) (ug/L)	36.23	-9.39E-04	0.08	9.81	-9.09	0.26	0.14	0.63	negative trend (improving)
04040001020	IDEM	LMG020-0008	Sulfate (mg/L)	39.35	-3.92E-04	-0.66	6.17	-2.20	-1.16	0.01	0.19	negative trend (improving)
04040001020	IDEM	LMG020-0008	Zinc (total) (ug/L)	48.59	-1.16E-03	-2.08	3.80	-3.24	-1.92	0.00	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0009	Alkalinity (as CaCO3) (mg/L)	172.20	-1.68E-03	-2.66	9.17	-3.21	-1.71	0.12	0.30	negative trend (improving)
04040001020	IDEM	LMG020-0009	Arsenic (total) (ug/L)	-2.33	9.56E-05	-0.02	-2.12	3.13	-0.30	0.29	0.30	positive trend (declining)
04040001020	IDEM	LMG020-0009	Barium (total) (ug/L)	-2.64	6.89E-04	-0.78	-0.59	5.48	-2.20	0.21	0.48	positive trend (declining)
04040001020	IDEM	LMG020-0009	Cadmium (total) (ug/L)	4.97	-1.20E-04	0.00	4.64	-4.03	-0.02	0.91	0.80	negative trend (improving)
04040001020	IDEM	LMG020-0009	Chloride (mg/L)	-3.39	4.51E-04	-0.58	-0.63	3.00	-1.24	0.02	0.24	positive trend (declining)
04040001020	IDEM	LMG020-0009	Chromium (total) (ug/L)	27.97	-7.15E-04	0.01	7.15	-6.54	0.05	0.33	0.57	negative trend (improving)
04040001020	IDEM	LMG020-0009	Copper (dissolved) (ug/L)	-1177.00	3.31E-02	-5.80	-4.41	4.62	-0.70	0.40	0.63	positive trend (declining)
04040001020	IDEM	LMG020-0009	Copper (total) (ug/L)	-231.20	8.30E-03	-8.53	-2.12	2.72	-0.92	0.08	0.23	positive trend (declining)
04040001020	IDEM	LMG020-0009	Hardness (as CaCO3) (mg/L)	207.80	-1.82E-03	-4.40	9.56	-2.99	-2.41	0.09	0.30	negative trend (improving)
04040001020	IDEM	LMG020-0009	Iron (dissolved) (ug/L)	968.00	-2.58E-02	0.66	3.02	-2.95	0.05	0.38	0.37	negative trend (improving)
04040001020	IDEM	LMG020-0009	Lead (dissolved) (ug/L)	4.77	-1.12E-04	-0.06	4.80	-4.18	-1.40	-0.04	0.50	negative trend (improving)
04040001020	IDEM	LMG020-0009	Lead (total) (ug/L)	22.86	-5.74E-04	0.08	5.74	-5.16	0.38	0.54	0.58	negative trend (improving)
04040001020	IDEM	LMG020-0009	Manganese (dissolved) (ug/L)	23.49	-6.08E-04	-0.11	2.71	-2.62	-0.49	0.53	0.48	negative trend (improving)
04040001020	IDEM	LMG020-0009	Mercury (total) (ug/L)	-0.36	1.23E-05	0.00	-8.27	9.98	-0.01	0.32	0.72	positive trend (declining)
04040001020	IDEM	LMG020-0009	Nickel (total) (ug/L)	14.97	-3.61E-04	0.09	4.49	-3.88	0.70	0.67	0.54	negative trend (improving)
04040001020	IDEM	LMG020-0009	pH (SU)	5.64	6.43E-05	0.06	7.94	3.24	1.18	0.31	0.34	positive trend (declining)
04040001020	IDEM	LMG020-0009	Phenolics (total) (ug/L)	-8.83	3.32E-04	0.14	-2.07	2.74	0.49	-0.14	0.22	positive trend (declining)
04040001020	IDEM	LMG020-0009	Selenium (total) (ug/L)	-3.35	1.14E-04	-0.01	-1.78	2.17	-0.25	0.81	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0009	Silica (dissolved) (reactive) (mg/L)	-13.42	4.32E-04	-0.26	-1.99	2.23	-1.02	0.52	0.43	positive trend (declining)
04040001020	IDEM	LMG020-0009	Silica (total) (reactive) (mg/L)	-4.74	1.60E-04	-0.12	-1.99	2.47	-0.72	0.30	0.34	positive trend (declining)
04040001020	IDEM	LMG020-0009	Silver (total) (ug/L)	40.40	-1.06E-03	-0.12	13.85	-12.96	-0.69	0.47	0.85	negative trend (improving)
04040001020	IDEM	LMG020-0009	Sulfate (mg/L)	33.96	-2.61E-04	-1.14	9.43	-2.60	-3.71	0.06	0.34	negative trend (improving)
04040001020	IDEM	LMG020-0009	Zinc (total) (ug/L)	39.37	-9.44E-04	-0.77	5.93	-5.10	-1.62	0.30	0.48	negative trend (improving)
04040001020	IDEM	LMG020-0010	4,4-DDT (ug/L)	-2.52	6.90E-05	-0.01	-5.93	6.13	-1.45	0.10	0.85	positive trend (declining)
04040001020	IDEM	LMG020-0010	Acetochlor (ug/L)	-1.51	4.11E-05	0.00	-5.46	5.64	-0.46	0.25	0.82	positive trend (declining)
04040001020	IDEM	LMG020-0010	Alachlor (ug/L)	-1.19	3.26E-05	0.00	-5.15	5.33	0.00	0.31	0.81	positive trend (declining)
04040001020	IDEM	LMG020-0010	Alkalinity (as CaCO3) (mg/L)	164.70	-1.49E-03	-2.07	8.35	-2.70	-1.20	-0.06	0.22	negative trend (improving)
04040001020	IDEM	LMG020-0010	Arsenic (total) (ug/L)	-3.89	1.43E-04	0.03	-3.45	4.53	0.33	0.01	0.33	positive trend (declining)
04040001020	IDEM	LMG020-0010	Atrazine (Aatrex) (ug/L)	-3.52	9.64E-05	-0.02	-5.94	6.13	-1.55	0.09	0.85	positive trend (declining)
04040001020	IDEM	LMG020-0010	Barium (total) (ug/L)	-22.04	1.21E-03	-0.13	-3.62	7.11	-0.28	0.18	0.55	positive trend (declining)
04040001020	IDEM	LMG020-0010	Cadmium (total) (ug/L)	5.51	-1.35E-04	0.00	8.08	-7.10	-0.01	0.63	0.75	negative trend (improving)
04040001020	IDEM	LMG020-0010	Chlordane, Alpha- (ug/L)	-2.55	6.96E-05	0.00	-4.73	4.88	-0.34	0.25	0.80	positive trend (declining)
04040001020	IDEM	LMG020-0010	Chlordane, Gamma- (ug/L)	-2.64	7.20E-05	0.00	-4.67	4.81	-0.34	0.23	0.80	positive trend (declining)
04040001020	IDEM	LMG020-0010	Chloride (mg/L)	-16.43	8.41E-04	-0.04	-2.74	5.02	-0.09	0.11	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0010	Chlorpyrifos (ug/L)	-1.76	4.82E-05	0.00	-4.70	4.84	-0.37	0.25	0.80	positive trend (declining)
04040001020	IDEM	LMG020-0010	Chromium (total) (ug/L)	24.55	-6.21E-04	0.05	5.77	-5.21	0.19	0.43	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0010	Clomazone (ug/L)	-1.18	3.23E-05	0.00	-5.65	5.85	-0.55	0.20	0.82	positive trend (declining)
04040001020	IDEM	LMG020-0010	COD (mg/L)	22.04	-4.35E-04	0.47	2.95	-2.08	0.79	0.14	0.18	negative trend (improving)
04040001020	IDEM	LMG020-0010	Copper (dissolved) (ug/L)	-429.80	1.22E-02	1.51	-3.66	3.85	0.39	0.39	0.63	positive trend (declining)
04040001020	IDEM	LMG020-0010	Copper (total) (ug/L)	-111.50	3.97E-03	2.02	-3.11	3.96	0.79	0.33	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0010	Di(2-ethylhexyl)adipate (ug/L)	-82.63	2.21E-03	0.05	-4.28	4.32	0.17	0.41	0.82	positive trend (declining)
04040001020	IDEM	LMG020-0010	Endrin (ug/L)	-5.13	1.41E-04	-0.01	-5.48	5.68	-0.61	0.18	0.83	positive trend (declining)
04040001020	IDEM	LMG020-0010	Heptachlor Epoxide (ug/L)	-1.88	5.14E-05	0.00	-4.63	4.79	0.13	0.32	0.80	positive trend (declining)
04040001020	IDEM	LMG020-0010	Hexachlorobenzene (ug/L)	-1.86	5.09E-05	0.00	-5.03	5.20	-0.31	0.21	0.81	positive trend (declining)
04040001020	IDEM	LMG020-0010	Iron (dissolved) (ug/L)	1410.00	-3.78E-02	1.90	4.65	-4.55	0.13	0.30	0.48	negative trend (improving)
04040001020	IDEM	LMG020-0010	Lead (dissolved) (ug/L)	4.25	-9.89E-05	0.06	2.77	-2.40	1.21	0.34	0.44	negative trend (improving)
04040001020	IDEM	LMG020-0010	Lead (total) (ug/L)	19.37	-4.64E-04	-0.02	5.42	-4.64	-0.08	0.25	0.42	negative trend (improving)
04040001020	IDEM	LMG020-0010	Lindane (ug/L)	-0.97	2.66E-05	0.00	-5.01	5.19	0.03	0.31	0.80	positive trend (declining)
04040001020	IDEM	LMG020-0010	Mercury (total) (ug/L)	-0.36	1.22E-05	0.00	-5.99	7.17	0.22	0.67	0.77	positive trend (declining)
04040001020	IDEM	LMG020-0010	Methoxychlor (ug/L)	-4.54	1.24E-04	0.00	-4.98	5.15	-0.21	0.34	0.82	positive trend (declining)
04040001020	IDEM	LMG020-0010	Metolachlor (ug/L)	-1.41	3.87E-05	0.00	-5.64	5.85	-0.55	0.20	0.82	positive trend (declining)

HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	IDEM	LMG020-0010	Nickel (total) (ug/L)	14.12	-3.34E-04	0.10	4.72	-3.98	0.61	0.51	0.47	negative trend (improving)
04040001020	IDEM	LMG020-0010	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-0.59	2.60E-05	-0.03	-2.53	3.99	-1.78	0.36	0.44	positive trend (declining)
04040001020	IDEM	LMG020-0010	Nitrogen, Total Kjeldahl (TNK) (mg/L)	5.80	-1.50E-04	-0.04	5.59	-5.37	-0.97	0.63	0.48	negative trend (improving)
04040001020	IDEM	LMG020-0010	Nonachlor, cis- (ug/L)	-2.70	7.36E-05	0.00	-4.76	4.90	-0.35	0.23	0.81	positive trend (declining)
04040001020	IDEM	LMG020-0010	Nonachlor, trans- (ug/L)	-2.42	6.60E-05	0.00	-4.51	4.66	0.18	0.31	0.79	positive trend (declining)
04040001020	IDEM	LMG020-0010	Oxychlordane (ug/L)	-2.39	6.54E-05	0.00	-4.98	5.16	0.01	0.31	0.80	positive trend (declining)
04040001020	IDEM	LMG020-0010	Pentachlorophenol (ug/L)	-51.92	1.42E-03	-0.20	-5.71	5.89	-1.33	0.02	0.82	positive trend (declining)
04040001020	IDEM	LMG020-0010	pH (SU)	5.48	7.11E-05	0.08	8.04	3.72	1.82	0.41	0.45	positive trend (declining)
04040001020	IDEM	LMG020-0010	Selenium (total) (ug/L)	-3.93	1.30E-04	0.04	-2.90	3.43	0.70	0.60	0.46	positive trend (declining)
04040001020	IDEM	LMG020-0010	Silica (dissolved) (reactive) (mg/L)	-13.87	4.40E-04	-0.27	-2.43	2.69	-1.41	0.56	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0010	Silica (total) (reactive) (mg/L)	-4.76	1.61E-04	-0.32	-2.14	2.69	-1.96	0.18	0.43	positive trend (declining)
04040001020	IDEM	LMG020-0010	Silver (total) (ug/L)	40.72	-1.07E-03	-0.16	13.18	-12.33	-1.05	0.57	0.87	negative trend (improving)
04040001020	IDEM	LMG020-0011	Alkalinity (as CaCO3) (mg/L)	200.90	-2.29E-03	-1.86	6.55	-2.67	-0.81	0.28	0.28	negative trend (improving)
04040001020	IDEM	LMG020-0011	Arsenic (dissolved) (ug/L)	20.94	-5.30E-04	0.30	4.21	-3.97	2.70	0.45	0.66	negative trend (improving)
04040001020	IDEM	LMG020-0011	Arsenic (total) (ug/L)	-4.10	1.59E-04	0.11	-1.55	2.21	1.03	0.55	0.45	positive trend (declining)
04040001020	IDEM	LMG020-0011	Barium (dissolved) (ug/L)	-44.81	1.80E-03	-0.38	-1.92	2.87	-0.54	0.03	0.35	positive trend (declining)
04040001020	IDEM	LMG020-0011	Barium (total) (ug/L)	-24.72	1.36E-03	0.74	-2.82	5.54	1.12	0.28	0.50	positive trend (declining)
04040001020	IDEM	LMG020-0011	Cadmium (dissolved) (ug/L)	4.95	-1.17E-04	-0.06	2.99	-2.63	-1.58	0.39	0.52	negative trend (improving)
04040001020	IDEM	LMG020-0011	Cadmium (total) (ug/L)	5.45	-1.34E-04	0.02	8.58	-7.50	0.30	0.07	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0011	COD (mg/L)	44.62	-8.89E-04	0.43	4.28	-3.05	0.48	0.07	0.25	negative trend (improving)
04040001020	IDEM	LMG020-0011	Copper (dissolved) (ug/L)	34.32	-8.81E-04	0.42	5.16	-4.90	1.59	-0.05	0.49	negative trend (improving)
04040001020	IDEM	LMG020-0011	Copper (total) (ug/L)	16.32	-3.35E-04	0.69	2.96	-2.22	1.53	-0.12	0.25	negative trend (improving)
04040001020	IDEM	LMG020-0011	Cyanide (total) (mg/L)	0.03	-6.88E-07	0.00	2.94	-2.49	0.84	0.02	0.21	negative trend (improving)
04040001020	IDEM	LMG020-0011	Fluoride (mg/L)	-0.50	2.68E-05	-0.02	-3.01	5.79	-1.60	0.23	0.51	positive trend (declining)
04040001020	IDEM	LMG020-0011	Iron (dissolved) (ug/L)	1471.00	-3.92E-02	38.26	2.34	-2.28	2.17	0.65	0.50	negative trend (improving)
04040001020	IDEM	LMG020-0011	Iron (total) (ug/L)	-4651.00	1.62E-01	168.10	-1.62	2.01	0.98	0.47	0.29	positive trend (declining)
04040001020	IDEM	LMG020-0011	Lead (dissolved) (ug/L)	7.52	-1.85E-04	-0.05	4.59	-4.15	-0.69	-0.04	0.40	negative trend (improving)
04040001020	IDEM	LMG020-0011	Manganese (dissolved) (ug/L)	-451.80	1.28E-02	0.60	-4.64	4.85	0.20	0.35	0.64	positive trend (declining)
04040001020	IDEM	LMG020-0011	Nickel (dissolved) (ug/L)	29.67	-7.45E-04	0.11	6.09	-5.70	0.94	0.38	0.71	negative trend (improving)
04040001020	IDEM	LMG020-0011	Nitrogen, Ammonia (mg/L)	2.08	-4.30E-05	-0.10	3.33	-2.46	-2.47	0.40	0.32	negative trend (improving)
04040001020	IDEM	LMG020-0011	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-16.58	5.24E-04	-0.10	-4.67	5.27	-1.13	0.79	0.76	positive trend (declining)
04040001020	IDEM	LMG020-0011	Nitrogen, Total Kjeldahl (TNK) (mg/L)	3.69	-7.46E-05	-0.16	4.80	-3.46	-3.18	0.38	0.43	negative trend (improving)
04040001020	IDEM	LMG020-0011	pH (SU)	4.34	9.67E-05	0.00	9.26	7.40	0.08	0.27	0.48	positive trend (declining)
04040001020	IDEM	LMG020-0011	Phosphorus (total) (mg/L)	0.24	-5.16E-06	0.00	3.66	-2.84	0.06	0.05	0.23	negative trend (improving)
04040001020	IDEM	LMG020-0011	Selenium (dissolved) (ug/L)	19.63	-4.90E-04	0.06	3.06	-2.85	0.39	0.44	0.50	negative trend (improving)
04040001020	IDEM	LMG020-0011	Selenium (total) (ug/L)	-5.10	1.65E-04	0.02	-4.58	5.29	0.25	0.49	0.57	positive trend (declining)
04040001020	IDEM	LMG020-0011	Silica (dissolved) (reactive) (mg/L)	-24.94	8.21E-04	0.49	-1.92	2.21	1.13	0.57	0.42	positive trend (declining)
04040001020	IDEM	LMG020-0011	Silica (total) (reactive) (mg/L)	-3.23	1.64E-04	0.07	-1.20	2.23	0.31	0.16	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0011	Silver (total) (ug/L)	38.56	-1.00E-03	-0.18	12.26	-11.37	-0.91	0.45	0.82	negative trend (improving)
04040001020	IDEM	LMG020-0011	Sulfate (mg/L)	-55.15	2.80E-03	-0.48	-1.29	2.44	-0.30	0.17	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0012	Alkalinity (as CaCO3) (mg/L)	188.90	-2.01E-03	-5.04	8.12	-3.09	-2.48	0.06	0.31	negative trend (improving)
04040001020	IDEM	LMG020-0012	Arsenic (dissolved) (ug/L)	27.34	-7.05E-04	0.10	4.03	-3.88	0.81	0.62	0.68	negative trend (improving)
04040001020	IDEM	LMG020-0012	Arsenic (total) (ug/L)	-3.27	1.29E-04	0.01	-2.43	3.41	0.14	0.47	0.40	positive trend (declining)
04040001020	IDEM	LMG020-0012	Barium (total) (ug/L)	-9.01	8.86E-04	-0.23	-1.96	6.87	-0.54	-0.15	0.42	positive trend (declining)
04040001020	IDEM	LMG020-0012	Cadmium (dissolved) (ug/L)	5.21	-1.24E-04	-0.05	3.08	-2.73	-1.36	0.44	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0012	Cadmium (total) (ug/L)	6.47	-1.60E-04	-0.04	7.60	-6.87	-0.78	0.43	0.76	negative trend (improving)
04040001020	IDEM	LMG020-0012	Chromium (total) (ug/L)	17.38	-4.01E-04	0.01	3.23	-2.66	0.03	0.39	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0012	COD (mg/L)	42.00	-8.90E-04	-0.35	4.04	-3.05	-0.39	0.04	0.24	negative trend (improving)
04040001020	IDEM	LMG020-0012	Conductivity (uS/cm)	1409.00	-2.74E-02	-7.28	5.66	-3.95	-0.33	-0.06	0.28	negative trend (improving)
04040001020	IDEM	LMG020-0012	Copper (dissolved) (ug/L)	28.23	-7.17E-04	0.36	4.91	-4.62	1.60	0.05	0.49	negative trend (improving)
04040001020	IDEM	LMG020-0012	Copper (total) (ug/L)	21.59	-4.81E-04	0.40	3.66	-2.98	0.92	0.23	0.39	negative trend (improving)
04040001020	IDEM	LMG020-0012	E. Coli (CFU/100mL)	21.06	-4.97E-04	0.35	2.71	-2.21	0.81	0.05	0.25	negative trend (improving)
04040001020	IDEM	LMG020-0012	Hardness (as CaCO3) (mg/L)	56.32	2.85E-03	-3.19	1.50	2.71	-0.99	0.11	0.24	positive trend (declining)
04040001020	IDEM	LMG020-0012	Iron (dissolved) (ug/L)	1113.00	-2.95E-02	1.45	2.81	-2.72	0.10	0.55	0.46	negative trend (improving)

HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	IDEM	LMG020-0012	Lead (dissolved) (ug/L)	5.43	-1.30E-04	-0.02	5.52	-4.89	-1.46	0.76	0.82	negative trend (improving)
04040001020	IDEM	LMG020-0012	Manganese (dissolved) (ug/L)	-138.50	3.95E-03	0.97	-3.14	3.33	1.05	0.61	0.63	positive trend (declining)
04040001020	IDEM	LMG020-0012	Mercury (total) (ug/L)	-0.33	1.12E-05	0.00	-6.01	7.41	-1.00	0.26	0.59	positive trend (declining)
04040001020	IDEM	LMG020-0012	Nickel (dissolved) (ug/L)	39.69	-1.03E-03	0.18	3.48	-3.37	2.15	0.86	0.75	negative trend (improving)
04040001020	IDEM	LMG020-0012	Nitrogen, Ammonia (mg/L)	2.43	-5.19E-05	-0.06	3.22	-2.45	-1.61	0.61	0.37	negative trend (improving)
04040001020	IDEM	LMG020-0012	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-21.70	6.53E-04	-0.02	-5.43	5.82	-0.16	0.77	0.78	positive trend (declining)
04040001020	IDEM	LMG020-0012	Nitrogen, Total Kjeldahl (TNK) (mg/L)	7.73	-1.87E-04	-0.04	4.63	-4.16	-0.81	0.72	0.54	negative trend (improving)
04040001020	IDEM	LMG020-0012	pH (SU)	4.42	9.85E-05	0.10	6.11	4.87	1.59	0.13	0.31	positive trend (declining)
04040001020	IDEM	LMG020-0012	Selenium (dissolved) (ug/L)	26.92	-6.83E-04	-0.05	2.93	-2.77	-0.22	0.32	0.44	negative trend (improving)
04040001020	IDEM	LMG020-0012	Selenium (total) (ug/L)	-5.72	1.84E-04	-0.01	-3.68	4.22	-0.17	0.52	0.50	positive trend (declining)
04040001020	IDEM	LMG020-0012	Silica (dissolved) (reactive) (mg/L)	-15.44	5.12E-04	-0.18	-2.29	2.64	-0.51	0.22	0.34	positive trend (declining)
04040001020	IDEM	LMG020-0012	Silica (total) (reactive) (mg/L)	-4.08	1.58E-04	-0.14	-1.56	2.22	-0.66	0.27	0.34	positive trend (declining)
04040001020	IDEM	LMG020-0012	Silver (total) (ug/L)	40.52	-1.06E-03	0.03	16.79	-15.70	0.19	0.42	0.88	negative trend (improving)
04040001020	IDEM	LMG020-0012	Sulfate (mg/L)	-33.47	1.76E-03	-1.08	-1.31	2.57	-1.68	0.36	0.47	positive trend (declining)
04040001020	IDEM	LMG020-0012	Total Dissolved Solids (mg/L)	485.90	-6.98E-03	1.95	4.75	-2.54	0.61	-0.02	0.30	negative trend (improving)
04040001020	IDEM	LMG020-0012	Total Organic Carbon (mg/L)	28.22	-6.95E-04	-0.23	3.36	-3.10	-1.01	0.16	0.36	negative trend (improving)
04040001020	IDEM	LMG020-0012	Total Solids (mg/L)	46.43	5.14E-03	6.08	0.64	2.55	0.94	-0.03	0.20	positive trend (declining)
04040001020	IDEM	LMG020-0013	4,4-DDT (ug/L)	-2.80	7.63E-05	-0.01	-6.86	7.06	-2.13	0.51	0.92	positive trend (declining)
04040001020	IDEM	LMG020-0013	Acetochlor (ug/L)	-1.85	5.00E-05	0.00	-5.35	5.47	2.04	0.74	0.90	positive trend (declining)
04040001020	IDEM	LMG020-0013	Alachlor (ug/L)	-1.24	3.37E-05	0.00	-4.42	4.56	0.00	0.61	0.88	positive trend (declining)
04040001020	IDEM	LMG020-0013	Alkalinity (as CaCO3) (mg/L)	355.20	-6.58E-03	-3.37	5.97	-4.08	-1.36	0.05	0.41	negative trend (improving)
04040001020	IDEM	LMG020-0013	Barium (total) (ug/L)	-65.22	2.38E-03	-0.70	-6.85	9.23	-1.94	0.24	0.77	positive trend (declining)
04040001020	IDEM	LMG020-0013	Chlordane, Alpha- (ug/L)	-2.67	7.27E-05	0.00	-4.85	4.99	-0.23	0.56	0.89	positive trend (declining)
04040001020	IDEM	LMG020-0013	Chlordane, Gamma- (ug/L)	-3.07	8.30E-05	0.01	-5.23	5.36	2.20	0.75	0.91	positive trend (declining)
04040001020	IDEM	LMG020-0013	Chloride (mg/L)	-15.36	7.99E-04	0.01	-1.32	2.54	0.03	0.23	0.29	positive trend (declining)
04040001020	IDEM	LMG020-0013	Chlorpyrifos (ug/L)	-1.78	4.86E-05	0.00	-4.55	4.69	0.01	0.58	0.88	positive trend (declining)
04040001020	IDEM	LMG020-0013	Chromium (total) (ug/L)	48.64	-1.27E-03	-0.31	6.91	-6.65	-1.05	0.06	0.58	negative trend (improving)
04040001020	IDEM	LMG020-0013	Clomazone (ug/L)	-1.25	3.41E-05	0.00	-5.27	5.44	0.19	0.54	0.90	positive trend (declining)
04040001020	IDEM	LMG020-0013	Copper (dissolved) (ug/L)	-1647.00	4.65E-02	11.63	-5.33	5.61	1.21	0.35	0.75	positive trend (declining)
04040001020	IDEM	LMG020-0013	Copper (total) (ug/L)	-1446.00	4.17E-02	5.09	-8.56	9.11	0.75	0.15	0.73	positive trend (declining)
04040001020	IDEM	LMG020-0013	Endrin (ug/L)	-5.70	1.55E-04	0.00	-6.88	7.08	0.37	0.39	0.92	positive trend (declining)
04040001020	IDEM	LMG020-0013	Heptachlor (ug/L)	-3.80	1.03E-04	0.00	-5.37	5.51	0.05	0.45	0.90	positive trend (declining)
04040001020	IDEM	LMG020-0013	Heptachlor Epoxide (ug/L)	-2.45	6.63E-05	0.01	-5.55	5.69	2.53	0.78	0.90	positive trend (declining)
04040001020	IDEM	LMG020-0013	Hexachlorobenzene (ug/L)	-1.96	5.36E-05	0.00	-4.86	5.02	0.05	0.58	0.89	positive trend (declining)
04040001020	IDEM	LMG020-0013	Iron (dissolved) (ug/L)	554.40	-1.47E-02	-6.71	2.83	-2.76	-0.90	0.29	0.26	negative trend (improving)
04040001020	IDEM	LMG020-0013	Lead (dissolved) (ug/L)	4.03	-9.28E-05	-0.04	5.19	-4.45	-2.32	0.59	0.78	negative trend (improving)
04040001020	IDEM	LMG020-0013	Lead (total) (ug/L)	58.41	-1.54E-03	0.26	7.46	-7.25	1.03	0.43	0.75	negative trend (improving)
04040001020	IDEM	LMG020-0013	Lindane (ug/L)	-1.01	2.75E-05	0.00	-4.55	4.69	0.16	0.59	0.88	positive trend (declining)
04040001020	IDEM	LMG020-0013	Mercury (total) (ug/L)	-0.52	1.65E-05	0.00	-3.22	3.77	0.01	0.75	0.71	positive trend (declining)
04040001020	IDEM	LMG020-0013	Methoxychlor (ug/L)	-4.61	1.26E-04	0.00	-4.77	4.91	0.03	0.57	0.88	positive trend (declining)
04040001020	IDEM	LMG020-0013	Metolachlor (ug/L)	-1.48	4.03E-05	0.00	-4.80	4.96	-0.01	0.60	0.89	positive trend (declining)
04040001020	IDEM	LMG020-0013	Nickel (total) (ug/L)	39.48	-1.02E-03	-0.05	5.83	-5.58	-0.53	0.81	0.85	negative trend (improving)
04040001020	IDEM	LMG020-0013	Nonachlor, cis- (ug/L)	-2.56	6.97E-05	0.00	-4.53	4.67	0.03	0.56	0.88	positive trend (declining)
04040001020	IDEM	LMG020-0013	Nonachlor, trans- (ug/L)	-2.56	6.97E-05	0.00	-4.50	4.64	-0.03	0.56	0.87	positive trend (declining)
04040001020	IDEM	LMG020-0013	Oxychlordane (ug/L)	-2.49	6.78E-05	0.00	-4.40	4.54	-0.06	0.61	0.88	positive trend (declining)
04040001020	IDEM	LMG020-0013	Silica (dissolved) (reactive) (mg/L)	93.40	-2.54E-03	0.12	2.16	-2.11	0.28	0.62	0.47	negative trend (improving)
04040001020	IDEM	LMG020-0013	Silica (total) (reactive) (mg/L)	-16.10	4.68E-04	-0.35	-2.45	2.66	-2.14	0.15	0.44	positive trend (declining)
04040001020	IDEM	LMG020-0013	Silver (total) (ug/L)	42.54	-1.11E-03	-0.30	4.54	-4.39	-1.00	0.42	0.58	negative trend (improving)
04040001020	IDEM	LMG020-0013	Total Dissolved Solids (mg/L)	385.80	-5.52E-03	-5.76	4.33	-2.28	-1.62	0.16	0.30	negative trend (improving)
04040001020	IDEM	LMG020-0014	Biological Oxygen Demand (5 day) (total) (	7.19	-1.76E-04	0.83	2.64	-2.33	5.08	0.25	0.58	negative trend (improving)
04040001020	IDEM	LMG020-0014	Cadmium (total) (ug/L)	4.59	-1.09E-04	-0.03	6.88	-6.09	-1.37	0.59	0.44	negative trend (improving)
04040001020	IDEM	LMG020-0014	Chloride (mg/L)	-485.40	1.40E-02	4.18	-3.99	4.31	2.11	0.61	0.73	positive trend (declining)
04040001020	IDEM	LMG020-0014	Chromium (total) (ug/L)	32.72	-8.49E-04	0.03	9.60	-9.24	0.15	0.03	0.75	negative trend (improving)
04040001020	IDEM	LMG020-0014	Copper (total) (ug/L)	34.02	-8.81E-04	0.46	7.15	-6.87	1.89	-0.02	0.63	negative trend (improving)

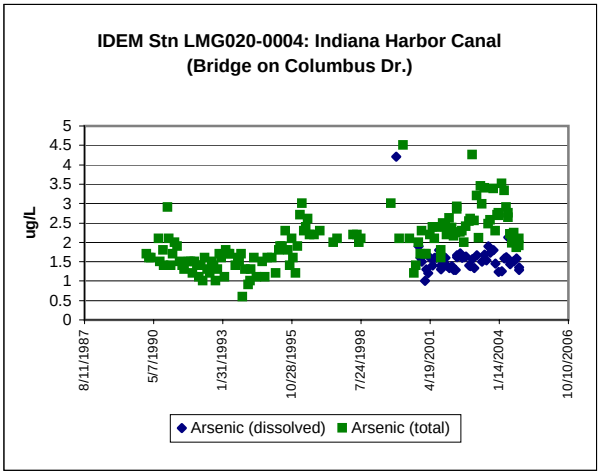
HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001020	IDEM	LMG020-0014	Lead (total) (ug/L)	25.55	-6.57E-04	0.74	3.28	-3.13	2.06	0.24	0.48	negative trend (improving)
04040001020	IDEM	LMG020-0014	Mercury (total) (ug/L)	-0.19	7.54E-06	0.00	-2.79	4.17	2.23	0.78	0.72	positive trend (declining)
04040001020	IDEM	LMG020-0014	Nickel (total) (ug/L)	11.82	-2.86E-04	-0.06	2.43	-2.18	-0.34	0.59	0.53	negative trend (improving)
04040001020	IDEM	LMG020-0014	'Nitrogen, Ammonia (mg/L)'	0.55	-1.22E-05	-0.05	2.57	-2.05	-2.82	0.07	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0014	'Nitrogen, Total Kjeldahl (TNK) (mg/L)'	-8.25	2.34E-04	0.06	-2.78	2.95	1.33	0.68	0.57	positive trend (declining)
04040001020	IDEM	LMG020-0014	pH (SU)	3.71	1.23E-04	0.37	4.96	5.94	6.77	0.31	0.57	positive trend (declining)
04040001020	IDEM	LMG020-0014	Phosphorus (total) (mg/L)	0.13	-2.97E-06	0.00	3.62	-3.02	1.72	0.12	0.29	negative trend (improving)
04040001020	IDEM	LMG020-0014	Total Dissolved Solids (mg/L)	-1024.00	3.33E-02	4.43	-1.80	2.19	0.62	0.71	0.50	positive trend (declining)
04040001020	IDEM	LMG020-0014	Total Organic Carbon (mg/L)	-37.44	1.09E-03	0.53	-3.08	3.37	2.70	0.61	0.68	positive trend (declining)
04040001020	IDEM	LMG020-0014	Total Suspended Solids (mg/L)	53.40	-1.34E-03	2.90	3.24	-2.93	2.71	0.32	0.37	negative trend (improving)
04040001020	IDEM	LMG020-0014	Zinc (total) (ug/L)	103.60	-2.70E-03	1.26	7.41	-7.17	1.86	0.11	0.66	negative trend (improving)
04040001040	IDEM	LMG040-0003	Arsenic (total) (ug/L)	-14.28	4.25E-04	0.76	-1.90	2.12	4.28	0.29	0.61	positive trend (declining)
04040001040	IDEM	LMG040-0003	Cadmium (total) (ug/L)	-1.31	4.79E-05	-0.01	-2.79	3.82	-0.57	-0.02	0.44	positive trend (declining)
04040001040	IDEM	LMG040-0003	Calcium (as CaCO3) (mg/L)	-87.60	8.30E-03	-11.68	-1.11	3.78	-1.86	0.23	0.39	positive trend (declining)
04040001040	IDEM	LMG040-0003	Chloride (mg/L)	-349.40	1.25E-02	-11.87	-4.48	5.76	-2.23	0.39	0.59	positive trend (declining)
04040001040	IDEM	LMG040-0003	Chromium (total) (ug/L)	35.01	-8.80E-04	-0.44	3.98	-3.58	-0.72	0.37	0.38	negative trend (improving)
04040001040	IDEM	LMG040-0003	Conductivity (uS/cm)	-1367.00	6.05E-02	-51.54	-3.52	5.61	-1.73	0.18	0.49	positive trend (declining)
04040001040	IDEM	LMG040-0003	Hardness (as CaCO3) (mg/L)	-48.83	1.01E-02	-13.01	-0.48	3.56	-1.53	0.14	0.32	positive trend (declining)
04040001040	IDEM	LMG040-0003	pH (SU)	5.22	7.22E-05	0.05	11.27	5.60	1.30	0.22	0.37	positive trend (declining)
04040001040	IDEM	LMG040-0003	Silica (dissolved) (reactive) (m	-83.99	2.71E-03	1.51	-2.84	3.20	1.22	0.42	0.49	positive trend (declining)
04040001040	IDEM	LMG040-0003	Sodium (mg/L)	-161.90	6.17E-03	-8.04	-4.03	5.51	-2.67	0.30	0.55	positive trend (declining)
04040001040	IDEM	LMG040-0003	Total Organic Carbon (mg/L)	-23.04	8.09E-04	1.35	-1.85	2.43	4.09	0.13	0.55	positive trend (declining)
04040001040	IDEM	LMG040-0003	Total Solids (mg/L)	-291.00	2.44E-02	-28.74	-1.35	4.03	-1.85	0.35	0.44	positive trend (declining)
04040001040	IDEM	LMG040-0003	Total Suspended Solids (mg/L)	172.70	-4.15E-03	11.42	3.07	-2.64	2.38	0.11	0.29	negative trend (improving)
04040001040	IDEM	LMG040-0003	Zinc (total) (ug/L)	135.30	-3.37E-03	2.86	2.16	-2.02	1.51	0.16	0.33	negative trend (improving)
04040001050	IDEM	LMG050-0006	Arsenic (total) (ug/L)	-2.94	1.16E-04	0.63	-1.54	2.18	4.26	0.06	0.39	positive trend (declining)
04040001050	IDEM	LMG050-0006	Cadmium (total) (ug/L)	-1.31	4.79E-05	-0.01	-2.63	3.60	-0.61	-0.02	0.43	positive trend (declining)
04040001050	IDEM	LMG050-0006	Chromium (total) (ug/L)	44.81	-1.17E-03	1.44	3.31	-3.11	1.40	0.11	0.29	negative trend (improving)
04040001050	IDEM	LMG050-0006	Conductivity (uS/cm)	-948.80	4.81E-02	-44.85	-3.42	6.23	-2.08	0.17	0.53	positive trend (declining)
04040001050	IDEM	LMG050-0006	Hardness (as CaCO3) (mg/L)	-155.30	1.40E-02	-14.04	-1.21	3.91	-1.42	0.12	0.35	positive trend (declining)
04040001050	IDEM	LMG050-0006	Lead (total) (ug/L)	60.61	-1.58E-03	1.29	2.79	-2.72	1.98	0.12	0.47	negative trend (improving)
04040001050	IDEM	LMG050-0006	Mercury (total) (ug/L)	-0.40	1.32E-05	0.00	-5.71	6.80	-1.32	0.66	0.76	positive trend (declining)
04040001050	IDEM	LMG050-0006	Nitrogen, Ammonia (mg/L)	0.83	-2.02E-05	0.01	3.12	-2.73	0.47	0.21	0.26	negative trend (improving)
04040001050	IDEM	LMG050-0006	pH (SU)	4.88	8.55E-05	0.01	12.32	7.75	0.41	0.14	0.46	positive trend (declining)
04040001050	IDEM	LMG050-0006	Total Organic Carbon (mg/L)	-36.48	1.10E-03	0.75	-2.33	2.63	1.86	0.11	0.40	positive trend (declining)
04040001050	IDEM	LMG050-0006	Total Solids (mg/L)	-151.10	1.95E-02	5.81	-0.83	3.83	0.42	0.14	0.34	positive trend (declining)
04040001050	IDEM	LMG050-0006	Zinc (total) (ug/L)	153.20	-3.93E-03	6.70	2.61	-2.50	3.55	-0.11	0.46	negative trend (improving)
04040001050	IDEM	LMG050-0007	4,4-DDT (ug/L)	-1.68	4.69E-05	0.00	-2.09	2.20	-0.56	0.72	0.70	positive trend (declining)
04040001050	IDEM	LMG050-0007	Acetochlor (ug/L)	-1.07	2.98E-05	0.00	-2.45	2.57	-0.95	0.72	0.73	positive trend (declining)
04040001050	IDEM	LMG050-0007	Alachlor (ug/L)	-0.80	2.24E-05	0.00	-2.85	3.01	-0.82	0.61	0.70	positive trend (declining)
04040001050	IDEM	LMG050-0007	Alkalinity (as CaCO3) (mg/L)	23.90	6.03E-03	-2.62	0.26	2.35	-0.38	0.19	0.22	positive trend (declining)
04040001050	IDEM	LMG050-0007	Arsenic (total) (ug/L)	-4.00	1.41E-04	0.57	-1.96	2.56	4.63	0.09	0.57	positive trend (declining)
04040001050	IDEM	LMG050-0007	Cadmium (total) (ug/L)	11.15	-2.87E-04	-0.05	10.61	-10.08	-2.15	0.93	1.18	negative trend (improving)
04040001050	IDEM	LMG050-0007	Chlordane, Alpha- (ug/L)	-1.79	4.96E-05	0.00	-2.27	2.38	-0.68	0.74	0.70	positive trend (declining)
04040001050	IDEM	LMG050-0007	Chlordane, Gamma- (ug/L)	-1.57	4.39E-05	0.00	-1.96	2.07	-0.56	0.75	0.67	positive trend (declining)
04040001050	IDEM	LMG050-0007	Chlorpyrifos (ug/L)	-1.15	3.21E-05	0.00	-2.02	2.13	-0.39	0.77	0.65	positive trend (declining)
04040001050	IDEM	LMG050-0007	Chromium (total) (ug/L)	23.72	-6.05E-04	0.05	5.62	-5.30	0.31	0.59	0.74	negative trend (improving)
04040001050	IDEM	LMG050-0007	Clomazone (ug/L)	-0.76	2.14E-05	0.00	-2.76	2.93	-0.70	0.61	0.68	positive trend (declining)
04040001050	IDEM	LMG050-0007	Conductivity (uS/cm)	-1263.00	5.77E-02	-34.41	-3.77	6.19	-1.43	0.29	0.57	positive trend (declining)
04040001050	IDEM	LMG050-0007	Copper (total) (ug/L)	19.46	-4.55E-04	1.20	4.50	-3.89	4.39	-0.01	0.56	negative trend (improving)
04040001050	IDEM	LMG050-0007	Endrin (ug/L)	-3.34	9.35E-05	0.00	-1.95	2.06	-0.27	0.77	0.64	positive trend (declining)
04040001050	IDEM	LMG050-0007	Hardness (as CaCO3) (mg/L)	-263.70	1.73E-02	-9.81	-1.79	4.21	-0.96	0.28	0.42	positive trend (declining)
04040001050	IDEM	LMG050-0007	Heptachlor (ug/L)	-2.39	6.66E-05	0.00	-2.00	2.11	-0.50	0.74	0.68	positive trend (declining)
04040001050	IDEM	LMG050-0007	Heptachlor Epoxide (ug/L)	-1.20	3.37E-05	0.00	-2.07	2.19	-0.52	0.76	0.66	positive trend (declining)

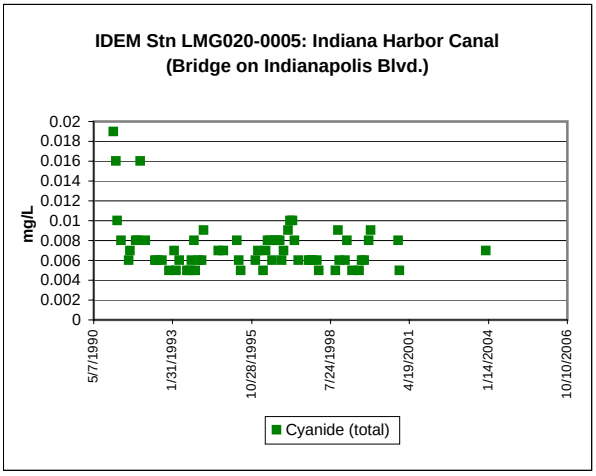
HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001050	IDEM	LMG050-0007	Hexachlorobenzene (ug/L)	-1.25	3.49E-05	0.00	-2.03	2.15	-0.34	0.77	0.64	positive trend (declining)
04040001050	IDEM	LMG050-0007	Lindane (ug/L)	-0.63	1.77E-05	0.00	-2.62	2.77	-0.58	0.64	0.68	positive trend (declining)
04040001050	IDEM	LMG050-0007	Mercury (total) (ug/L)	-0.26	9.48E-06	0.00	-5.42	7.42	-0.50	0.61	0.85	positive trend (declining)
04040001050	IDEM	LMG050-0007	Methoxychlor (ug/L)	-2.98	8.31E-05	0.00	-2.10	2.21	-0.44	0.77	0.66	positive trend (declining)
04040001050	IDEM	LMG050-0007	Nitrogen, Nitrate+Nitrite (total) (mg/L)	-4.68	2.10E-04	0.05	-1.34	2.16	0.26	0.46	0.28	positive trend (declining)
04040001050	IDEM	LMG050-0007	Nonachlor, cis- (ug/L)	-1.63	4.56E-05	0.00	-1.96	2.06	-0.42	0.76	0.65	positive trend (declining)
04040001050	IDEM	LMG050-0007	Nonachlor, trans- (ug/L)	-1.63	4.55E-05	0.00	-1.96	2.07	-0.45	0.76	0.65	positive trend (declining)
04040001050	IDEM	LMG050-0007	Oxychlordane (ug/L)	-1.60	4.46E-05	0.00	-2.09	2.21	-0.42	0.77	0.66	positive trend (declining)
04040001050	IDEM	LMG050-0007	pH (SU)	5.15	7.67E-05	0.01	7.96	4.26	0.17	0.10	0.26	positive trend (declining)
04040001050	IDEM	LMG050-0007	Total Solids (mg/L)	-470.50	2.88E-02	-10.00	-2.29	5.04	-0.67	0.22	0.45	positive trend (declining)
04040001050	IDEM	LMG050-0007	Total Suspended Solids (mg/L)	145.80	-3.57E-03	10.78	3.81	-3.35	3.50	0.00	0.35	negative trend (improving)
04040001050	IDEM	LMG050-0007	Turbidity (NTU)	223.20	-5.70E-03	9.73	2.91	-2.72	2.22	0.19	0.40	negative trend (improving)
04040001050	IDEM	LMG050-0007	Zinc (total) (ug/L)	82.11	-2.01E-03	2.94	4.63	-4.19	2.58	-0.13	0.46	negative trend (improving)
04040001060	IDEM	LMG060-0005	Arsenic (total) (ug/L)	-9.14	2.81E-04	0.42	-1.77	2.04	3.08	0.07	0.43	positive trend (declining)
04040001060	IDEM	LMG060-0005	Cadmium (total) (ug/L)	-1.29	4.73E-05	-0.01	-2.72	3.74	-0.51	-0.01	0.43	positive trend (declining)
04040001060	IDEM	LMG060-0005	Calcium (as CaCO3) (mg/L)	12.24	4.47E-03	-4.20	0.21	2.79	-1.09	0.41	0.35	positive trend (declining)
04040001060	IDEM	LMG060-0005	Chloride (mg/L)	-46.33	2.62E-03	-3.75	-1.76	3.57	-1.83	0.25	0.37	positive trend (declining)
04040001060	IDEM	LMG060-0005	Chromium (total) (ug/L)	26.94	-6.76E-04	0.02	3.79	-3.40	0.07	0.59	0.44	negative trend (improving)
04040001060	IDEM	LMG060-0005	Conductivity (uS/cm)	87.10	1.39E-02	-39.12	0.51	2.91	-2.68	0.00	0.30	positive trend (declining)
04040001060	IDEM	LMG060-0005	Hardness (as CaCO3) (mg/L)	77.75	4.66E-03	-11.38	1.02	2.19	-2.21	0.40	0.34	positive trend (declining)
04040001060	IDEM	LMG060-0005	Lead (total) (ug/L)	37.81	-9.64E-04	0.58	2.79	-2.66	1.40	0.12	0.41	negative trend (improving)
04040001060	IDEM	LMG060-0005	pH (SU)	5.42	7.08E-05	0.02	15.65	7.33	0.51	0.15	0.43	positive trend (declining)
04040001060	IDEM	LMG060-0005	Silica (dissolved) (reactive) (m	-54.05	1.78E-03	0.23	-2.79	3.20	0.30	0.46	0.50	positive trend (declining)
04040001060	IDEM	LMG060-0005	Total Solids (mg/L)	176.50	5.76E-03	-10.72	1.85	2.16	-1.38	0.20	0.23	positive trend (declining)
04040001060	IDEM	LMG060-0005	Total Suspended Solids (mg/L)	133.00	-3.28E-03	6.83	2.58	-2.27	1.48	-0.02	0.20	negative trend (improving)
04040001060	IDEM	LMG060-0005	Zinc (total) (ug/L)	160.70	-4.10E-03	-0.38	3.25	-3.10	-0.26	0.11	0.38	negative trend (improving)
04040001060	IDEM	LMG060-0007	4,4-DDD (ug/L)	13.25	-3.60E-04	0.00	3.32	-3.31	0.00	0.19	0.62	negative trend (improving)
04040001060	IDEM	LMG060-0007	4,4-DDT (ug/L)	13.25	-3.60E-04	0.00	3.32	-3.31	0.00	0.19	0.62	negative trend (improving)
04040001060	IDEM	LMG060-0007	Aldrin (ug/L)	10.06	-2.73E-04	0.00	2.86	-2.85	0.00	0.19	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Alpha-BHC (ug/L)	12.90	-3.51E-04	0.00	3.25	-3.24	0.00	0.19	0.63	negative trend (improving)
04040001060	IDEM	LMG060-0007	Arsenic (total) (ug/L)	-1.58	7.96E-05	0.44	-1.25	2.25	3.98	0.01	0.34	positive trend (declining)
04040001060	IDEM	LMG060-0007	Barium (total) (ug/L)	-20.44	1.60E-03	2.55	-1.46	4.07	2.15	0.10	0.36	positive trend (declining)
04040001060	IDEM	LMG060-0007	Beta-BHC (ug/L)	12.90	-3.51E-04	0.00	3.25	-3.24	0.00	0.19	0.63	negative trend (improving)
04040001060	IDEM	LMG060-0007	Cadmium (total) (ug/L)	5.67	-1.40E-04	-0.01	6.78	-5.96	-0.56	0.75	0.77	negative trend (improving)
04040001060	IDEM	LMG060-0007	Calcium (as CaCO3) (mg/L)	-426.70	1.64E-02	-3.83	-2.26	3.22	-0.65	0.50	0.45	positive trend (declining)
04040001060	IDEM	LMG060-0007	Chloride (mg/L)	-95.93	4.42E-03	-7.28	-2.14	3.51	-2.27	0.34	0.42	positive trend (declining)
04040001060	IDEM	LMG060-0007	Chromium (total) (ug/L)	28.25	-7.04E-04	-0.13	3.63	-3.23	-0.29	0.50	0.39	negative trend (improving)
04040001060	IDEM	LMG060-0007	Conductivity (uS/cm)	-415.50	2.88E-02	-31.95	-2.20	5.50	-2.16	0.10	0.44	positive trend (declining)
04040001060	IDEM	LMG060-0007	Copper (dissolved) (ug/L)	25.10	-6.25E-04	-0.07	3.49	-3.23	-0.45	0.64	0.57	negative trend (improving)
04040001060	IDEM	LMG060-0007	Copper (total) (ug/L)	25.38	-6.13E-04	0.27	5.88	-5.06	0.80	0.22	0.44	negative trend (improving)
04040001060	IDEM	LMG060-0007	Delta-BHC (ug/L)	9.61	-2.61E-04	0.00	2.80	-2.79	0.00	0.19	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Dieldrin (ug/L)	12.90	-3.51E-04	0.00	3.25	-3.24	0.00	0.19	0.63	negative trend (improving)
04040001060	IDEM	LMG060-0007	Endosulfan I (ug/L)	10.06	-2.73E-04	0.00	2.86	-2.85	0.00	0.19	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Endosulfan II (ug/L)	9.61	-2.61E-04	0.00	2.80	-2.79	0.00	0.19	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Endosulfan Sulfate (ug/L)	10.06	-2.73E-04	0.00	2.86	-2.85	0.00	0.19	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Endrin (ug/L)	0.52	-1.41E-05	0.00	3.10	-3.07	0.00	0.21	0.63	negative trend (improving)
04040001060	IDEM	LMG060-0007	Endrin Aldehyde (ug/L)	58.30	-1.58E-03	0.00	3.03	-3.02	0.00	0.19	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Fluoride (mg/L)	-1.66	6.01E-05	0.02	-4.54	5.86	0.68	0.29	0.53	positive trend (declining)
04040001060	IDEM	LMG060-0007	Heptachlor Epoxide (ug/L)	1.57	-4.27E-05	0.00	2.64	-2.63	0.00	0.19	0.62	negative trend (improving)
04040001060	IDEM	LMG060-0007	Iron (dissolved) (ug/L)	4897.00	-1.32E-01	80.17	2.96	-2.91	0.92	0.09	0.31	negative trend (improving)
04040001060	IDEM	LMG060-0007	Lead (dissolved) (ug/L)	7.05	-1.74E-04	0.07	4.36	-4.01	1.13	0.05	0.50	negative trend (improving)
04040001060	IDEM	LMG060-0007	Lead (total) (ug/L)	34.94	-8.40E-04	-0.12	3.48	-2.99	-0.18	0.41	0.32	negative trend (improving)
04040001060	IDEM	LMG060-0007	Manganese (dissolved) (ug/L)	-479.70	1.45E-02	-20.38	-5.24	5.82	-5.10	-0.10	0.57	positive trend (declining)
04040001060	IDEM	LMG060-0007	Mercury (total) (ug/L)	-0.31	1.07E-05	0.00	-5.50	6.81	-0.12	0.43	0.63	positive trend (declining)

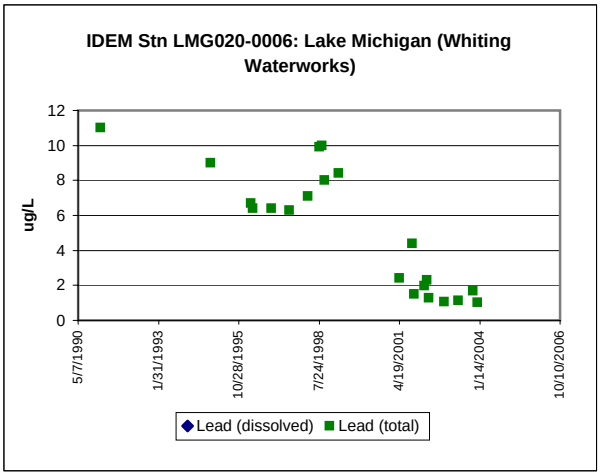
HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001060	IDEM	LMG060-0007	pH (SU)	5.56	6.55E-05	0.03	14.39	6.08	0.90	0.22	0.39	positive trend (declining)
04040001060	IDEM	LMG060-0007	Propachlor (ug/L)	9.58	-2.60E-04	0.00	3.10	-3.09	0.00	0.20	0.64	negative trend (improving)
04040001060	IDEM	LMG060-0007	Selenium (total) (ug/L)	-3.49	1.20E-04	0.05	-2.56	3.14	0.57	0.49	0.39	positive trend (declining)
04040001060	IDEM	LMG060-0007	Silica (dissolved) (reactive) (mg/L)	-53.45	1.78E-03	0.95	-2.59	3.00	0.98	0.34	0.43	positive trend (declining)
04040001060	IDEM	LMG060-0007	Silver (total) (ug/L)	39.68	-1.03E-03	-0.20	12.28	-11.39	-0.90	0.37	0.79	negative trend (improving)
04040001060	IDEM	LMG060-0007	Total Dissolved Solids (mg/L)	15.48	1.05E-02	-18.91	0.10	2.46	-1.80	0.36	0.33	positive trend (declining)
04040001060	IDEM	LMG060-0007	Zinc (total) (ug/L)	171.00	-4.37E-03	0.89	4.38	-4.01	0.28	-0.05	0.29	negative trend (improving)
04040001060	IDEM	LMG060-0008	Arsenic (total) (ug/L)	-2.07	9.02E-05	0.33	-1.60	2.51	3.35	0.17	0.37	positive trend (declining)
04040001060	IDEM	LMG060-0008	Cadmium (total) (ug/L)	-1.02	4.03E-05	-0.01	-2.11	3.10	-0.62	0.08	0.39	positive trend (declining)
04040001060	IDEM	LMG060-0008	Chromium (total) (ug/L)	27.68	-6.99E-04	0.39	3.19	-2.90	0.97	0.59	0.40	negative trend (improving)
04040001060	IDEM	LMG060-0008	COD (mg/L)	-84.81	2.63E-03	5.28	-2.08	2.41	3.34	0.04	0.43	positive trend (declining)
04040001060	IDEM	LMG060-0008	Conductivity (uS/cm)	-600.10	3.57E-02	-34.55	-2.85	6.11	-1.97	0.04	0.47	positive trend (declining)
04040001060	IDEM	LMG060-0008	Cyanide (total) (mg/L)	0.02	-5.67E-07	0.00	4.81	-4.27	-0.90	-0.03	0.47	negative trend (improving)
04040001060	IDEM	LMG060-0008	Hardness (as CaCO3) (mg/L)	-155.90	1.32E-02	-13.01	-1.31	4.00	-1.42	0.20	0.37	positive trend (declining)
04040001060	IDEM	LMG060-0008	Lead (total) (ug/L)	44.78	-1.17E-03	0.31	2.94	-2.86	0.69	0.28	0.45	negative trend (improving)
04040001060	IDEM	LMG060-0008	Mercury (total) (ug/L)	-0.18	7.44E-06	0.00	-1.77	2.74	-0.48	0.49	0.34	positive trend (declining)
04040001060	IDEM	LMG060-0008	pH (SU)	5.93	5.52E-05	0.04	17.45	5.84	1.29	0.11	0.35	positive trend (declining)
04040001060	IDEM	LMG060-0008	Phosphorus (total) (mg/L)	0.33	-7.35E-06	0.03	3.28	-2.59	3.86	0.14	0.38	negative trend (improving)
04040001060	IDEM	LMG060-0008	Total Solids (mg/L)	-27.34	1.40E-02	1.21	-0.15	2.71	0.11	0.45	0.32	positive trend (declining)
04040001060	IDEM	LMG060-0008	Total Suspended Solids (mg/L)	126.10	-3.11E-03	11.18	3.15	-2.78	3.52	0.14	0.37	negative trend (improving)
04040001060	IDEM	LMG060-0008	Zinc (total) (ug/L)	105.20	-2.71E-03	2.93	2.37	-2.29	2.07	0.06	0.38	negative trend (improving)
04040001070	USGS	04095300	Suspended Sediment <63u percent	258.60	-6.03E-03	9.42	4.85	-3.78	2.44	0.07	0.54	negative trend (improving)
04040001070	IDEM	LMG070-0004	4,4-DDT (ug/L)	-2.43	6.66E-05	-0.01	-6.15	6.36	-1.31	-0.14	0.79	positive trend (declining)
04040001070	IDEM	LMG070-0004	Acetochlor (ug/L)	-1.52	4.15E-05	0.00	-8.27	8.55	-1.01	-0.31	0.82	positive trend (declining)
04040001070	IDEM	LMG070-0004	Alachlor (ug/L)	-1.19	3.25E-05	0.00	-5.56	5.76	-0.63	-0.02	0.77	positive trend (declining)
04040001070	IDEM	LMG070-0004	Arsenic (total) (ug/L)	-2.17	8.89E-05	0.02	-2.67	3.92	0.35	0.13	0.34	positive trend (declining)
04040001070	IDEM	LMG070-0004	Barium (total) (ug/L)	-4.98	7.55E-04	-0.49	-0.74	4.04	-0.93	0.06	0.33	positive trend (declining)
04040001070	IDEM	LMG070-0004	Biological Oxygen Demand (5 day) (total) (	2.05	-4.31E-05	0.08	3.24	-2.45	1.42	-0.10	0.29	negative trend (improving)
04040001070	IDEM	LMG070-0004	Cadmium (total) (ug/L)	5.40	-1.32E-04	0.01	7.87	-6.92	0.28	0.22	0.57	negative trend (improving)
04040001070	IDEM	LMG070-0004	Chlorpyrifos (ug/L)	-1.66	4.54E-05	0.00	-5.31	5.50	-0.60	-0.02	0.77	positive trend (declining)
04040001070	IDEM	LMG070-0004	Chromium (total) (ug/L)	24.78	-6.32E-04	0.30	4.73	-4.33	1.14	0.52	0.51	negative trend (improving)
04040001070	IDEM	LMG070-0004	Clomazone (ug/L)	-1.13	3.09E-05	0.00	-5.98	6.21	-0.71	-0.08	0.79	positive trend (declining)
04040001070	IDEM	LMG070-0004	COD (mg/L)	26.05	-5.41E-04	0.19	4.37	-3.25	0.38	-0.10	0.23	negative trend (improving)
04040001070	IDEM	LMG070-0004	Copper (dissolved) (ug/L)	43.78	-1.15E-03	-0.09	5.72	-5.58	-0.53	0.60	0.78	negative trend (improving)
04040001070	IDEM	LMG070-0004	Copper (total) (ug/L)	21.82	-5.50E-04	0.32	3.51	-3.18	0.65	0.01	0.25	negative trend (improving)
04040001070	IDEM	LMG070-0004	Cyanide (total) (mg/L)	0.01	-9.29E-08	0.00	3.80	-2.17	2.30	-0.07	0.23	negative trend (improving)
04040001070	IDEM	LMG070-0004	E. Coli (CFU/100mL)	15.73	-3.98E-04	0.23	3.42	-3.02	0.94	0.02	0.33	negative trend (improving)
04040001070	IDEM	LMG070-0004	Endrin (ug/L)	-4.94	1.35E-04	-0.01	-5.77	5.98	-0.44	-0.09	0.78	positive trend (declining)
04040001070	IDEM	LMG070-0004	Heptachlor (ug/L)	-2.19	6.10E-05	0.00	-1.92	2.02	0.14	-0.15	0.38	positive trend (declining)
04040001070	IDEM	LMG070-0004	Iron (dissolved) (ug/L)	1105.00	-2.98E-02	20.43	3.55	-3.49	1.23	0.10	0.34	negative trend (improving)
04040001070	IDEM	LMG070-0004	Lead (total) (ug/L)	26.34	-6.68E-04	0.13	7.00	-6.38	0.58	0.38	0.61	negative trend (improving)
04040001070	IDEM	LMG070-0004	Lindane (ug/L)	-0.94	2.58E-05	0.00	-5.01	5.20	-0.38	0.01	0.77	positive trend (declining)
04040001070	IDEM	LMG070-0004	Mercury (total) (ug/L)	-0.39	1.31E-05	0.00	-4.93	5.87	-2.00	0.81	0.81	positive trend (declining)
04040001070	IDEM	LMG070-0004	Methoxychlor (ug/L)	-4.29	1.17E-04	-0.01	-5.50	5.69	-0.51	-0.02	0.77	positive trend (declining)
04040001070	IDEM	LMG070-0004	Nickel (total) (ug/L)	17.53	-4.32E-04	0.25	5.22	-4.62	1.95	0.66	0.63	negative trend (improving)
04040001070	IDEM	LMG070-0004	Nitrogen, Total Kjeldahl (TNK) (mg/L)	1.63	-4.02E-05	0.02	6.63	-5.88	0.85	0.10	0.47	negative trend (improving)
04040001070	IDEM	LMG070-0004	Oxychlordane (ug/L)	-2.36	6.46E-05	0.00	-5.44	5.64	-0.70	-0.02	0.77	positive trend (declining)
04040001070	IDEM	LMG070-0004	Pendimethalin (ug/L)	-2.31	6.33E-05	0.00	-7.26	7.53	-0.70	-0.32	0.80	positive trend (declining)
04040001070	IDEM	LMG070-0004	Selenium (total) (ug/L)	-2.91	1.02E-04	0.03	-1.65	2.08	0.41	0.66	0.34	positive trend (declining)
04040001070	IDEM	LMG070-0004	Silver (total) (ug/L)	41.09	-1.08E-03	-0.13	12.16	-11.45	-0.84	0.57	0.87	negative trend (improving)
04040001070	IDEM	LMG070-0004	Sulfate (mg/L)	48.11	-6.43E-04	-1.19	4.92	-2.37	-1.55	-0.04	0.22	negative trend (improving)
04040001070	IDEM	LMG070-0004	Terbufos (ug/L)	-1.50	4.11E-05	0.00	-4.89	5.08	-0.42	-0.11	0.75	positive trend (declining)
04040001070	IDEM	LMG070-0004	Zinc (dissolved) (ug/L)	28.40	-6.95E-04	0.06	3.14	-2.86	0.18	0.10	0.41	negative trend (improving)
04040001070	IDEM	LMG070-0004	Zinc (total) (ug/L)	56.41	-1.44E-03	0.66	6.75	-6.17	1.10	0.20	0.52	negative trend (improving)

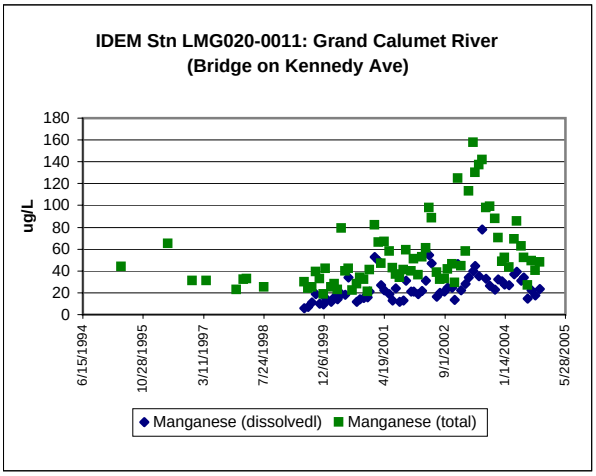
HUC11	Agency	SiteID	Parameter	B0	B1	B2	T0	T1	T2	RHO	RM	Trend
04040001070	IDEM	LMG070-0005	Chromium (total) (ug/L)	28.04	-7.09E-04	0.13	3.24	-2.95	0.35	0.62	0.42	negative trend (improving)
04040001070	IDEM	LMG070-0005	Conductivity (uS/cm)	-895.00	4.25E-02	-30.63	-5.69	9.71	-2.30	0.02	0.63	positive trend (declining)
04040001070	IDEM	LMG070-0005	Copper (dissolved) (ug/L)	22.15	-5.65E-04	0.05	4.76	-4.52	0.33	-0.07	0.43	negative trend (improving)
04040001070	IDEM	LMG070-0005	Hardness (as CaCO3) (mg/L)	-71.64	1.01E-02	-10.33	-0.80	4.07	-1.84	0.37	0.47	positive trend (declining)
04040001070	IDEM	LMG070-0005	Lead (dissolved) (ug/L)	5.64	-1.36E-04	0.00	3.82	-3.42	-0.18	0.82	0.74	negative trend (improving)
04040001070	IDEM	LMG070-0005	Lead (total) (ug/L)	57.01	-1.49E-03	0.67	5.61	-5.46	1.92	0.34	0.65	negative trend (improving)
04040001070	IDEM	LMG070-0005	Mercury (total) (ug/L)	-0.39	1.30E-05	0.00	-7.65	9.14	-0.03	0.51	0.78	positive trend (declining)
04040001070	IDEM	LMG070-0005	pH (SU)	5.26	7.40E-05	0.01	12.43	6.30	0.32	0.20	0.40	positive trend (declining)
04040001070	IDEM	LMG070-0005	Total Solids (mg/L)	-178.30	1.70E-02	-4.57	-1.13	3.87	-0.55	0.50	0.49	positive trend (declining)
04040001070	IDEM	LMG070-0007	Arsenic (total) (ug/L)	-3.29	1.20E-04	0.23	-3.32	4.37	3.01	0.17	0.45	positive trend (declining)
04040001070	IDEM	LMG070-0007	Barium (total) (ug/L)	-89.79	3.89E-03	-0.58	-3.57	5.58	-0.34	0.31	0.52	positive trend (declining)
04040001070	IDEM	LMG070-0007	Cadmium (total) (ug/L)	8.80	-2.22E-04	-0.06	3.61	-3.28	-0.30	0.00	0.25	negative trend (improving)
04040001070	IDEM	LMG070-0007	Chloride (mg/L)	-194.30	6.88E-03	-6.21	-3.73	4.77	-2.39	0.54	0.59	positive trend (declining)
04040001070	IDEM	LMG070-0007	Chromium (total) (ug/L)	29.67	-7.46E-04	-0.17	3.95	-3.58	-0.32	0.30	0.36	negative trend (improving)
04040001070	IDEM	LMG070-0007	Conductivity (uS/cm)	-711.10	3.67E-02	-30.39	-2.95	5.48	-1.85	0.35	0.55	positive trend (declining)
04040001070	IDEM	LMG070-0007	E. Coli (CFU/100mL)	23.38	-5.11E-04	-0.07	3.04	-2.32	-0.18	0.06	0.26	negative trend (improving)
04040001070	IDEM	LMG070-0007	Hardness (as CaCO3) (mg/L)	-51.51	8.60E-03	-16.79	-0.49	2.94	-2.29	0.28	0.36	positive trend (declining)
04040001070	IDEM	LMG070-0007	Iron (dissolved) (ug/L)	5881.00	-1.58E-01	107.40	4.59	-4.53	1.79	0.27	0.48	negative trend (improving)
04040001070	IDEM	LMG070-0007	Lead (dissolved) (ug/L)	5.64	-1.37E-04	-0.06	5.89	-5.32	-1.48	0.09	0.62	negative trend (improving)
04040001070	IDEM	LMG070-0007	Lead (total) (ug/L)	20.52	-4.87E-04	0.07	3.92	-3.36	0.19	0.23	0.32	negative trend (improving)
04040001070	IDEM	LMG070-0007	Manganese (dissolved) (ug/L)	-495.40	1.49E-02	-3.04	-2.45	2.72	-0.40	0.32	0.35	positive trend (declining)
04040001070	IDEM	LMG070-0007	Mercury (total) (ug/L)	-0.39	1.30E-05	0.00	-6.66	7.93	-0.19	0.57	0.77	positive trend (declining)
04040001070	IDEM	LMG070-0007	Nitrogen, Ammonia (mg/L)	0.94	-2.24E-05	-0.02	2.66	-2.27	-0.80	0.05	0.20	negative trend (improving)
04040001070	IDEM	LMG070-0007	pH (SU)	5.96	5.35E-05	0.03	14.14	4.57	0.78	0.23	0.31	positive trend (declining)
04040001070	IDEM	LMG070-0007	Silica (dissolved) (reactive) (mg/L)	-78.23	2.57E-03	0.92	-2.70	3.10	0.80	0.45	0.47	positive trend (declining)
04040001070	IDEM	LMG070-0007	Silver (total) (ug/L)	42.62	-1.12E-03	-0.04	14.16	-13.38	-0.19	0.39	0.85	negative trend (improving)
04040001070	IDEM	LMG070-0007	Total Solids (mg/L)	-328.80	2.06E-02	-18.68	-1.54	3.48	-1.51	0.45	0.43	positive trend (declining)
04040001070	IDEM	LMG070-0007	Zinc (dissolved) (ug/L)	-26.05	8.65E-04	-0.95	-1.71	2.09	-1.67	0.34	0.31	positive trend (declining)
04040001070	IDEM	LMG070-0008	Barium (total) (ug/L)	-125.50	5.04E-03	0.42	-6.52	9.40	0.30	0.23	0.69	positive trend (declining)
04040001070	IDEM	LMG070-0008	Biological Oxygen Demand (5 day) (total) (	5.41	-1.26E-04	0.21	3.29	-2.78	1.58	-0.03	0.36	negative trend (improving)
04040001070	IDEM	LMG070-0008	Cadmium (total) (ug/L)	4.76	-1.13E-04	-0.03	7.51	-6.59	-0.68	0.28	0.73	negative trend (improving)
04040001070	IDEM	LMG070-0008	Chromium (total) (ug/L)	22.96	-5.64E-04	0.23	2.57	-2.27	0.51	0.51	0.30	negative trend (improving)
04040001070	IDEM	LMG070-0008	Conductivity (uS/cm)	-950.40	4.47E-02	-28.13	-4.26	7.20	-1.92	0.37	0.67	positive trend (declining)
04040001070	IDEM	LMG070-0008	Copper (dissolved) (ug/L)	25.94	-6.48E-04	0.07	3.49	-3.25	0.47	0.62	0.55	negative trend (improving)
04040001070	IDEM	LMG070-0008	Hardness (as CaCO3) (mg/L)	-145.30	1.18E-02	-14.32	-1.55	4.52	-2.23	0.26	0.48	positive trend (declining)
04040001070	IDEM	LMG070-0008	Iron (dissolved) (ug/L)	5701.00	-1.51E-01	-34.46	4.32	-4.19	-0.65	0.43	0.52	negative trend (improving)
04040001070	IDEM	LMG070-0008	Manganese (dissolved) (ug/L)	-947.80	2.71E-02	1.84	-3.86	4.11	0.22	0.32	0.61	positive trend (declining)
04040001070	IDEM	LMG070-0008	Mercury (total) (ug/L)	-0.41	1.36E-05	0.00	-6.43	7.58	-0.50	0.66	0.80	positive trend (declining)
04040001070	IDEM	LMG070-0008	Nitrogen, Ammonia (mg/L)	1.06	-2.57E-05	-0.02	2.77	-2.41	-0.59	0.18	0.23	negative trend (improving)
04040001070	IDEM	LMG070-0008	pH (SU)	4.93	8.25E-05	-0.06	7.44	4.48	-1.16	0.13	0.29	positive trend (declining)
04040001070	IDEM	LMG070-0008	Selenium (total) (ug/L)	-3.47	1.19E-04	0.02	-1.76	2.16	0.27	0.66	0.34	positive trend (declining)
04040001070	IDEM	LMG070-0008	Silica (dissolved) (reactive) (mg/L)	-105.50	3.41E-03	0.93	-3.22	3.64	0.87	0.55	0.61	positive trend (declining)
04040001070	IDEM	LMG070-0008	Silver (total) (ug/L)	42.56	-1.12E-03	-0.10	12.40	-11.68	-0.54	0.48	0.85	negative trend (improving)
04040001070	IDEM	LMG070-0008	Total Dissolved Solids (mg/L)	-433.90	2.39E-02	-28.90	-3.27	6.47	-2.91	0.11	0.55	positive trend (declining)
04040001070	IDEM	LMG070-0008	Total Solids (mg/L)	-410.30	2.39E-02	-13.65	-2.95	6.18	-1.46	0.28	0.57	positive trend (declining)
04040001080	USGS	413814087060300	Water Temperature (deg)	142.90	-4.67E-03	7.34	2.66	-2.40	2.79	-0.06	0.62	negative trend (improving)
04040001080	USGS	413822087065200	Sodium (dissolved) (mg/L)	-65.99	2.88E-03	0.19	-2.00	2.46	0.16	0.23	0.52	positive trend (declining)
04040001080	USGS	413822087065200	Sodium Adsorption R ratio	-1.66	7.22E-05	-0.01	-1.70	2.09	-0.43	0.26	0.43	positive trend (declining)
04040001080	USGS	413833087065801	Water Temperature (deg)	-142.20	5.25E-03	15.14	-2.18	2.27	7.89	0.37	0.87	positive trend (declining)
04040001080	ECTF	J09	E. Coli (CFU/100mL)	-20.81	6.52E-04	-0.48	-2.26	2.61	-0.95	0.47	0.29	positive trend (declining)

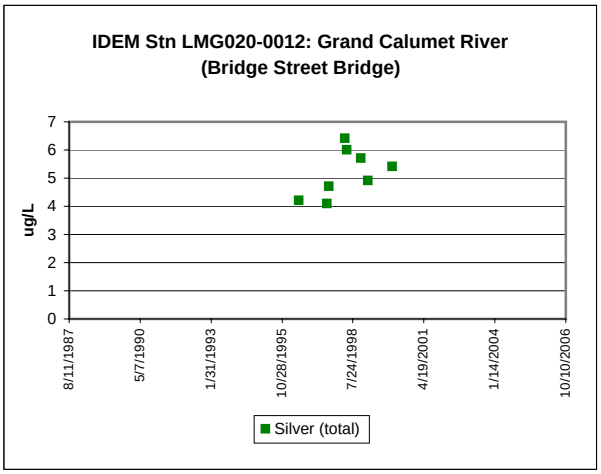
APPENDIX I
TIME TREND GRAPHS

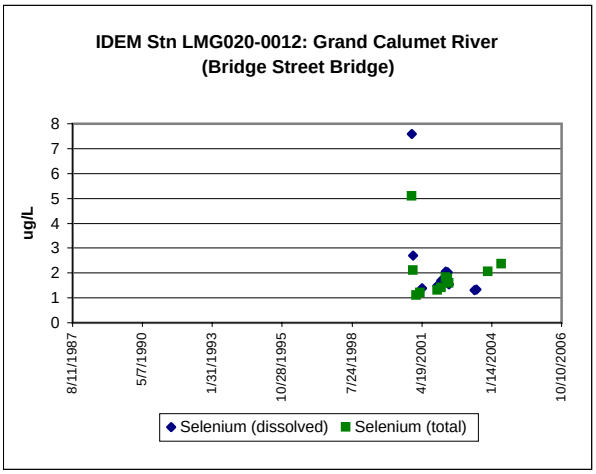

IDEM Stn LMG020-0004: Indiana Harbor Canal (Bridge on Columbus Dr.)
ug/L
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
8/11/1987
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Arsenic (dissolved)
Arsenic (total)

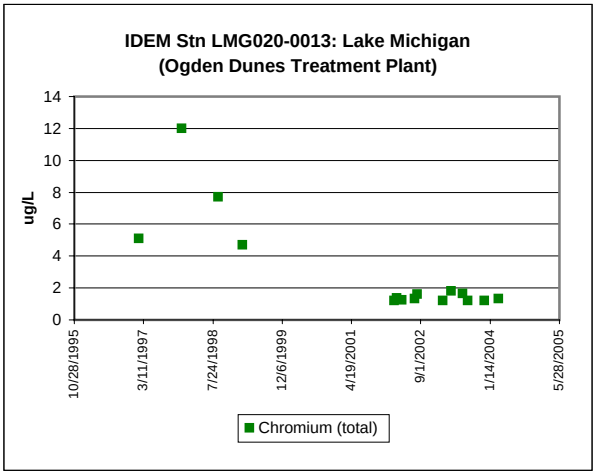

IDEM Stn LMG020-0005: Indiana Harbor Canal (Bridge on Indianapolis Blvd.)
mg/L
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Cyanide (total)

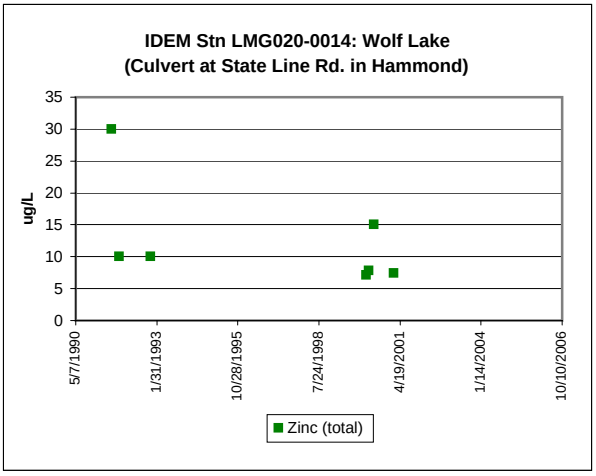

IDEM Stn LMG020-0006: Lake Michigan (Whiting Waterworks)
ug/L
12
10
8
6
4
2
0
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Lead (dissolved)
Lead (total)

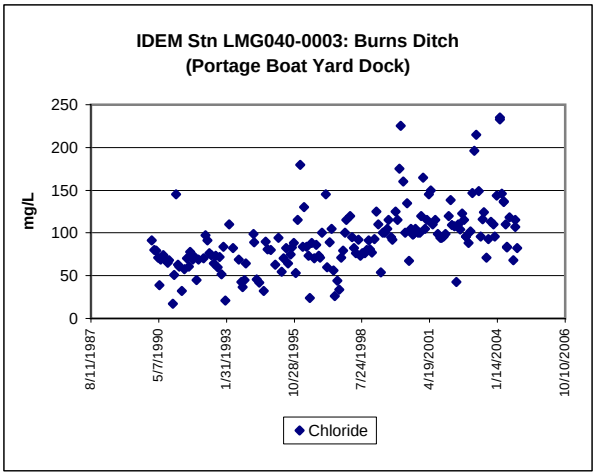

IDEM Stn LMG020-0011: Grand Calumet River (Bridge on Kennedy Ave)
ug/L
180
160
140
120
100
80
60
40
20
0
6/15/1994
10/28/1995
3/11/1997
7/24/1998
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
Manganese (dissolvedl)
Manganese (total)

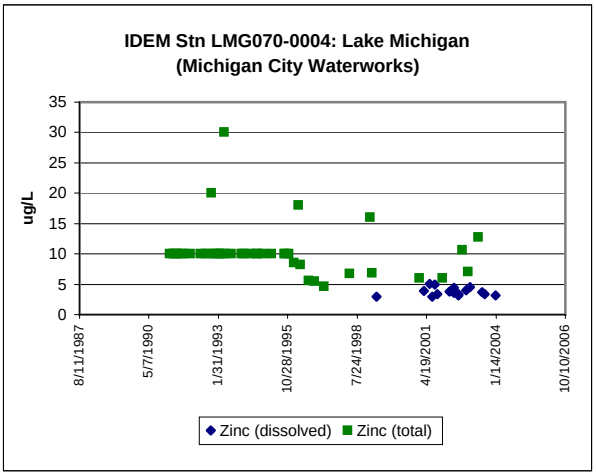

IDEM Stn LMG020-0012: Grand Calumet River (Bridge Street Bridge)
ug/L
7
6
5
4
3
2
1
0
8/11/1987
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Silver (total)

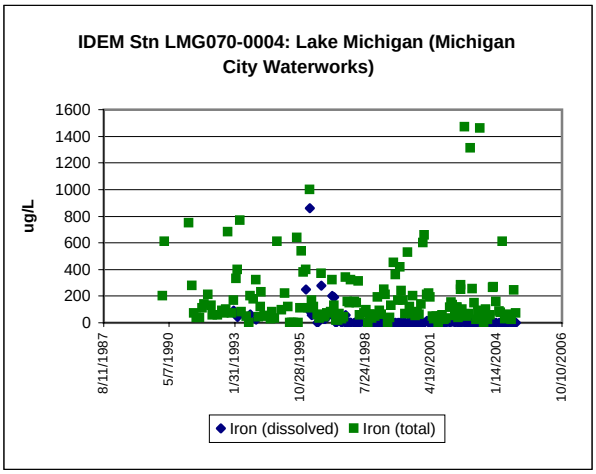

IDEM Stn LMG020-0012: Grand Calumet River (Bridge Street Bridge)
ug/L
8
7
6
5
4
3
2
1
0
8/11/1987
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Selenium (dissolved)
Selenium (total)

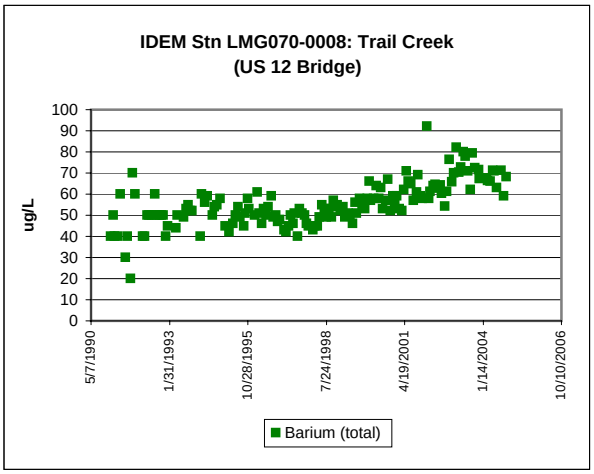

IDEM Stn LMG020-0013: Lake Michigan
(Ogden Dunes Treatment Plant)
ug/L
14
12
10
8
6
4
2
0
10/28/1995
3/11/1997
7/24/1998
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
Chromium (total)


IDEM Stn LMG020-0014: Wolf Lake
(Culvert at State Line Rd. in Hammond)
ug/L
35
30
25
20
15
10
5
0
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Zinc (total)


IDEM Stn LMG040-0003: Burns Ditch
(Portage Boat Yard Dock)
mg/L
250
200
150
100
50
0
8/11/1987
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Chloride


IDEM Stn LMG070-0004: Lake Michigan
(Michigan City Waterworks)
ug/L
35
30
25
20
15
10
5
0
8/11/1987
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Zinc (dissolved)
Zinc (total)


IDEM Stn LMG070-0004: Lake Michigan (Michigan
City Waterworks)
ug/L
1600
1400
1200
1000
800
600
400
200
0
8/11/1987
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Iron (dissolved)
Iron (total)


IDEM Stn LMG070-0008: Trail Creek
(US 12 Bridge)
ug/L
100
90
80
70
60
50
40
30
20
10
0
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
Barium (total)

APPENDIX J
LANDUSE STATISTICS FOR HUC14 SUBWATERSHEDS

HUC11	HUC14	HUC14 AREA KM2	LU AREA KM2	LU_ID	LU_DESC	Contamination potential	LU_PCT
04040001020	04040001020010	80.07	5.48	1	Open water	neutral	7%
04040001020	04040001020010	80.07	2.05	2	Low density residential	nonpoint	3%
04040001020	04040001020010	80.07	52.70	3	Urban	point	66%
04040001020	04040001020010	80.07	0.99	4	Sand/bare rock	neutral	1%
04040001020	04040001020010	80.07	8.73	5	Forest	neutral	11%
04040001020	04040001020010	80.07	2.85	6	Shrubs/grasses	neutral	4%
04040001020	04040001020010	80.07	1.88	7	Agriculture	nonpoint	2%
04040001020	04040001020010	80.07	4.79	8	Wetlands	neutral	6%
04040001020	04040001020020	65.56	2.37	1	Open water	neutral	4%
04040001020	04040001020020	65.56	2.87	2	Low density residential	nonpoint	4%
04040001020	04040001020020	65.56	36.13	3	Urban	point	55%
04040001020	04040001020020	65.56	0.48	4	Sand/bare rock	neutral	1%
04040001020	04040001020020	65.56	10.40	5	Forest	neutral	16%
04040001020	04040001020020	65.56	3.86	6	Shrubs/grasses	neutral	6%
04040001020	04040001020020	65.56	2.15	7	Agriculture	nonpoint	3%
04040001020	04040001020020	65.56	7.28	8	Wetlands	neutral	11%
04040001030	04040001030010	54.78	1.10	1	Open water	neutral	2%
04040001030	04040001030010	54.78	7.52	2	Low density residential	nonpoint	14%
04040001030	04040001030010	54.78	6.42	3	Urban	point	12%
04040001030	04040001030010	54.78	0.00	4	Sand/bare rock	neutral	0%
04040001030	04040001030010	54.78	11.28	5	Forest	neutral	21%
04040001030	04040001030010	54.78	9.94	6	Shrubs/grasses	neutral	18%
04040001030	04040001030010	54.78	16.44	7	Agriculture	nonpoint	30%
04040001030	04040001030010	54.78	1.85	8	Wetlands	neutral	3%
04040001030	04040001030020	44.11	0.70	1	Open water	neutral	2%
04040001030	04040001030020	44.11	8.19	2	Low density residential	nonpoint	19%
04040001030	04040001030020	44.11	12.64	3	Urban	point	29%
04040001030	04040001030020	44.11	0.00	4	Sand/bare rock	neutral	0%
04040001030	04040001030020	44.11	7.00	5	Forest	neutral	16%
04040001030	04040001030020	44.11	4.04	6	Shrubs/grasses	neutral	9%
04040001030	04040001030020	44.11	10.05	7	Agriculture	nonpoint	23%
04040001030	04040001030020	44.11	1.48	8	Wetlands	neutral	3%
04040001030	04040001030030	47.22	0.40	1	Open water	neutral	1%
04040001030	04040001030030	47.22	4.47	2	Low density residential	nonpoint	9%
04040001030	04040001030030	47.22	3.74	3	Urban	point	8%
04040001030	04040001030030	47.22	0.00	4	Sand/bare rock	neutral	0%
04040001030	04040001030030	47.22	8.39	5	Forest	neutral	18%
04040001030	04040001030030	47.22	4.77	6	Shrubs/grasses	neutral	10%
04040001030	04040001030030	47.22	23.90	7	Agriculture	nonpoint	51%
04040001030	04040001030030	47.22	1.52	8	Wetlands	neutral	3%
04040001030	04040001030040	68.00	0.40	1	Open water	neutral	1%
04040001030	04040001030040	68.00	2.57	2	Low density residential	nonpoint	4%
04040001030	04040001030040	68.00	3.42	3	Urban	point	5%
04040001030	04040001030040	68.00	0.00	4	Sand/bare rock	neutral	0%
04040001030	04040001030040	68.00	7.65	5	Forest	neutral	11%
04040001030	04040001030040	68.00	5.81	6	Shrubs/grasses	neutral	9%
04040001030	04040001030040	68.00	47.16	7	Agriculture	nonpoint	69%
04040001030	04040001030040	68.00	0.96	8	Wetlands	neutral	1%
04040001030	04040001030050	55.23	0.56	1	Open water	neutral	1%
04040001030	04040001030050	55.23	1.47	2	Low density residential	nonpoint	3%
04040001030	04040001030050	55.23	0.38	3	Urban	point	1%
04040001030	04040001030050	55.23	0.00	4	Sand/bare rock	neutral	0%
04040001030	04040001030050	55.23	10.98	5	Forest	neutral	20%
04040001030	04040001030050	55.23	4.61	6	Shrubs/grasses	neutral	8%
04040001030	04040001030050	55.23	34.25	7	Agriculture	nonpoint	62%
04040001030	04040001030050	55.23	2.92	8	Wetlands	neutral	5%
04040001030	04040001030060	52.12	1.13	1	Open water	neutral	2%
04040001030	04040001030060	52.12	3.72	2	Low density residential	nonpoint	7%
04040001030	04040001030060	52.12	5.59	3	Urban	point	11%
04040001030	04040001030060	52.12	0.00	4	Sand/bare rock	neutral	0%
04040001030	04040001030060	52.12	11.21	5	Forest	neutral	22%
04040001030	04040001030060	52.12	3.78	6	Shrubs/grasses	neutral	7%
04040001030	04040001030060	52.12	23.36	7	Agriculture	nonpoint	45%
04040001030	04040001030060	52.12	3.31	8	Wetlands	neutral	6%
04040001040	04040001040010	40.82	0.21	1	Open water	neutral	1%
04040001040	04040001040010	40.82	1.59	2	Low density residential	nonpoint	4%
04040001040	04040001040010	40.82	1.85	3	Urban	point	5%
04040001040	04040001040010	40.82	0.00	4	Sand/bare rock	neutral	0%
04040001040	04040001040010	40.82	7.07	5	Forest	neutral	17%
04040001040	04040001040010	40.82	1.82	6	Shrubs/grasses	neutral	4%
04040001040	04040001040010	40.82	26.74	7	Agriculture	nonpoint	66%
04040001040	04040001040010	40.82	1.46	8	Wetlands	neutral	4%

HUC11	HUC14	HUC14 AREA KM2	LU AREA KM2	LU_ID	LU_DESC	Contamination potential	LU_PCT
04040001040	04040001040020	50.73	1.52	1	Open water	neutral	3%
04040001040	04040001040020	50.73	7.18	2	Low density residential	nonpoint	14%
04040001040	04040001040020	50.73	17.42	3	Urban	point	34%
04040001040	04040001040020	50.73	0.01	4	Sand/bare rock	neutral	0%
04040001040	04040001040020	50.73	9.01	5	Forest	neutral	18%
04040001040	04040001040020	50.73	3.45	6	Shrubs/grasses	neutral	7%
04040001040	04040001040020	50.73	8.35	7	Agriculture	nonpoint	16%
04040001040	04040001040020	50.73	3.77	8	Wetlands	neutral	7%
04040001040	04040001040030	50.67	0.90	1	Open water	neutral	2%
04040001040	04040001040030	50.67	6.36	2	Low density residential	nonpoint	13%
04040001040	04040001040030	50.67	8.92	3	Urban	point	18%
04040001040	04040001040030	50.67	0.00	4	Sand/bare rock	neutral	0%
04040001040	04040001040030	50.67	12.48	5	Forest	neutral	25%
04040001040	04040001040030	50.67	2.54	6	Shrubs/grasses	neutral	5%
04040001040	04040001040030	50.67	15.97	7	Agriculture	nonpoint	32%
04040001040	04040001040030	50.67	3.47	8	Wetlands	neutral	7%
04040001050	04040001050010	42.72	0.47	1	Open water	neutral	1%
04040001050	04040001050010	42.72	6.04	2	Low density residential	nonpoint	14%
04040001050	04040001050010	42.72	7.72	3	Urban	point	18%
04040001050	04040001050010	42.72	0.00	4	Sand/bare rock	neutral	0%
04040001050	04040001050010	42.72	7.60	5	Forest	neutral	18%
04040001050	04040001050010	42.72	3.66	6	Shrubs/grasses	neutral	9%
04040001050	04040001050010	42.72	14.75	7	Agriculture	nonpoint	35%
04040001050	04040001050010	42.72	2.44	8	Wetlands	neutral	6%
04040001050	04040001050020	51.55	1.45	1	Open water	neutral	3%
04040001050	04040001050020	51.55	6.06	2	Low density residential	nonpoint	12%
04040001050	04040001050020	51.55	1.76	3	Urban	point	3%
04040001050	04040001050020	51.55	0.00	4	Sand/bare rock	neutral	0%
04040001050	04040001050020	51.55	14.02	5	Forest	neutral	27%
04040001050	04040001050020	51.55	4.88	6	Shrubs/grasses	neutral	9%
04040001050	04040001050020	51.55	19.77	7	Agriculture	nonpoint	38%
04040001050	04040001050020	51.55	3.61	8	Wetlands	neutral	7%
04040001050	04040001050030	37.60	0.25	1	Open water	neutral	1%
04040001050	04040001050030	37.60	1.41	2	Low density residential	nonpoint	4%
04040001050	04040001050030	37.60	2.80	3	Urban	point	7%
04040001050	04040001050030	37.60	0.00	4	Sand/bare rock	neutral	0%
04040001050	04040001050030	37.60	9.75	5	Forest	neutral	26%
04040001050	04040001050030	37.60	2.60	6	Shrubs/grasses	neutral	7%
04040001050	04040001050030	37.60	17.66	7	Agriculture	nonpoint	47%
04040001050	04040001050030	37.60	3.13	8	Wetlands	neutral	8%
04040001050	04040001050040	30.94	0.68	1	Open water	neutral	2%
04040001050	04040001050040	30.94	1.81	2	Low density residential	nonpoint	6%
04040001050	04040001050040	30.94	0.88	3	Urban	point	3%
04040001050	04040001050040	30.94	0.00	4	Sand/bare rock	neutral	0%
04040001050	04040001050040	30.94	8.71	5	Forest	neutral	28%
04040001050	04040001050040	30.94	2.70	6	Shrubs/grasses	neutral	9%
04040001050	04040001050040	30.94	12.80	7	Agriculture	nonpoint	41%
04040001050	04040001050040	30.94	3.34	8	Wetlands	neutral	11%
04040001050	04040001050050	37.79	0.52	1	Open water	neutral	1%
04040001050	04040001050050	37.79	3.59	2	Low density residential	nonpoint	10%
04040001050	04040001050050	37.79	3.60	3	Urban	point	10%
04040001050	04040001050050	37.79	0.00	4	Sand/bare rock	neutral	0%
04040001050	04040001050050	37.79	9.05	5	Forest	neutral	24%
04040001050	04040001050050	37.79	2.15	6	Shrubs/grasses	neutral	6%
04040001050	04040001050050	37.79	16.04	7	Agriculture	nonpoint	42%
04040001050	04040001050050	37.79	2.83	8	Wetlands	neutral	7%
04040001060	04040001060010	51.68	0.64	1	Open water	neutral	1%
04040001060	04040001060010	51.68	0.32	2	Low density residential	nonpoint	1%
04040001060	04040001060010	51.68	0.24	3	Urban	point	0%
04040001050	04040001060010	51.68	0.00	4	Sand/bare rock	neutral	0%
04040001060	04040001060010	51.68	20.26	5	Forest	neutral	39%
04040001060	04040001060010	51.68	4.44	6	Shrubs/grasses	neutral	9%
04040001060	04040001060010	51.68	20.14	7	Agriculture	nonpoint	39%
04040001060	04040001060010	51.68	5.63	8	Wetlands	neutral	11%
04040001060	04040001060020	58.46	0.61	1	Open water	neutral	1%
04040001060	04040001060020	58.46	1.19	2	Low density residential	nonpoint	2%
04040001060	04040001060020	58.46	0.88	3	Urban	point	2%
04040001060	04040001060020	58.46	0.00	4	Sand/bare rock	neutral	0%
04040001060	04040001060020	58.46	14.23	5	Forest	neutral	24%
04040001060	04040001060020	58.46	3.92	6	Shrubs/grasses	neutral	7%
04040001060	04040001060020	58.46	31.59	7	Agriculture	nonpoint	54%
04040001060	04040001060020	58.46	6.04	8	Wetlands	neutral	10%

HUC11	HUC14	HUC14 AREA KM2	LU AREA KM2	LU_ID	LU_DESC	Contamination potential	LU_PCT
04040001060	04040001060030	55.81	0.78	1	Open water	neutral	1%
04040001060	04040001060030	55.81	2.26	2	Low density residential	nonpoint	4%
04040001060	04040001060030	55.81	1.88	3	Urban	point	3%
04040001060	04040001060030	55.81	0.00	4	Sand/bare rock	neutral	0%
04040001060	04040001060030	55.81	19.22	5	Forest	neutral	34%
04040001060	04040001060030	55.81	4.43	6	Shrubs/grasses	neutral	8%
04040001060	04040001060030	55.81	21.57	7	Agriculture	nonpoint	39%
04040001060	04040001060030	55.81	5.65	8	Wetlands	neutral	10%
04040001060	04040001060040	27.73	0.89	1	Open water	neutral	3%
04040001060	04040001060040	27.73	3.60	2	Low density residential	nonpoint	13%
04040001060	04040001060040	27.73	5.07	3	Urban	point	18%
04040001060	04040001060040	27.73	0.16	4	Sand/bare rock	neutral	1%
04040001060	04040001060040	27.73	7.82	5	Forest	neutral	28%
04040001060	04040001060040	27.73	1.47	6	Shrubs/grasses	neutral	5%
04040001060	04040001060040	27.73	4.44	7	Agriculture	nonpoint	16%
04040001060	04040001060040	27.73	4.27	8	Wetlands	neutral	15%
04040001070	04040001070010	56.45	0.43	1	Open water	neutral	1%
04040001070	04040001070010	56.45	1.88	2	Low density residential	nonpoint	3%
04040001070	04040001070010	56.45	0.73	3	Urban	point	1%
04040001070	04040001070010	56.45	0.00	4	Sand/bare rock	neutral	0%
04040001070	04040001070010	56.45	24.98	5	Forest	neutral	44%
04040001070	04040001070010	56.45	3.61	6	Shrubs/grasses	neutral	6%
04040001070	04040001070010	56.45	20.21	7	Agriculture	nonpoint	36%
04040001070	04040001070010	56.45	4.62	8	Wetlands	neutral	8%
04040001070	04040001070020	62.12	0.25	1	Open water	neutral	0%
04040001070	04040001070020	62.12	4.06	2	Low density residential	nonpoint	7%
04040001070	04040001070020	62.12	1.70	3	Urban	point	3%
04040001070	04040001070020	62.12	0.00	4	Sand/bare rock	neutral	0%
04040001070	04040001070020	62.12	23.03	5	Forest	neutral	37%
04040001070	04040001070020	62.12	5.87	6	Shrubs/grasses	neutral	9%
04040001070	04040001070020	62.12	22.89	7	Agriculture	nonpoint	37%
04040001070	04040001070020	62.12	4.29	8	Wetlands	neutral	7%
04040001070	04040001070030	34.80	0.75	1	Open water	neutral	2%
04040001070	04040001070030	34.80	3.53	2	Low density residential	nonpoint	10%
04040001070	04040001070030	34.80	8.65	3	Urban	point	25%
04040001070	04040001070030	34.80	0.12	4	Sand/bare rock	neutral	0%
04040001070	04040001070030	34.80	10.80	5	Forest	neutral	31%
04040001070	04040001070030	34.80	2.58	6	Shrubs/grasses	neutral	7%
04040001070	04040001070030	34.80	5.38	7	Agriculture	nonpoint	15%
04040001070	04040001070030	34.80	2.98	8	Wetlands	neutral	9%
04040001080	04040001080010	8.75	1.53	1	Open water	neutral	18%
04040001080	04040001080010	8.75	0.27	2	Low density residential	nonpoint	3%
04040001080	04040001080010	8.75	2.51	3	Urban	point	29%
04040001080	04040001080010	8.75	1.04	4	Sand/bare rock	neutral	12%
04040001080	04040001080010	8.75	1.85	5	Forest	neutral	21%
04040001080	04040001080010	8.75	0.19	6	Shrubs/grasses	neutral	2%
04040001080	04040001080010	8.75	0.21	7	Agriculture	nonpoint	2%
04040001080	04040001080010	8.75	0.78	8	Wetlands	neutral	9%
04040001080	04040001080020	29.98	0.67	1	Open water	neutral	2%
04040001080	04040001080020	29.98	0.44	2	Low density residential	nonpoint	1%
04040001080	04040001080020	29.98	5.77	3	Urban	point	19%
04040001080	04040001080020	29.98	0.40	4	Sand/bare rock	neutral	1%
04040001080	04040001080020	29.98	14.10	5	Forest	neutral	47%
04040001080	04040001080020	29.98	0.85	6	Shrubs/grasses	neutral	3%
04040001080	04040001080020	29.98	1.36	7	Agriculture	nonpoint	5%
04040001080	04040001080020	29.98	6.38	8	Wetlands	neutral	21%
04040001080	04040001080030	12.51	0.03	1	Open water	neutral	0%
04040001080	04040001080030	12.51	0.17	2	Low density residential	nonpoint	1%
04040001080	04040001080030	12.51	0.23	3	Urban	point	2%
04040001080	04040001080030	12.51	0.02	4	Sand/bare rock	neutral	0%
04040001080	04040001080030	12.51	7.79	5	Forest	neutral	62%
04040001080	04040001080030	12.51	0.24	6	Shrubs/grasses	neutral	2%
04040001080	04040001080030	12.51	0.79	7	Agriculture	nonpoint	6%
04040001080	04040001080030	12.51	3.23	8	Wetlands	neutral	26%
04040001080	04040001080040	32.85	0.22	1	Open water	neutral	1%
04040001080	04040001080040	32.85	1.47	2	Low density residential	nonpoint	4%
04040001080	04040001080040	32.85	6.24	3	Urban	point	19%
04040001080	04040001080040	32.85	0.16	4	Sand/bare rock	neutral	0%
04040001080	04040001080040	32.85	14.46	5	Forest	neutral	44%
04040001080	04040001080040	32.85	1.41	6	Shrubs/grasses	neutral	4%
04040001080	04040001080040	32.85	4.47	7	Agriculture	nonpoint	14%
04040001080	04040001080040	32.85	4.43	8	Wetlands	neutral	13%

HUC11	HUC14	HUC14 AREA KM2	LU AREA KM2	LU_ID	LU_DESC	Contamination potential	LU_PCT
04040001090	04040001090010	3.76	0.22	1	Open water	neutral	6%
04040001090	04040001090010	3.76	0.53	2	Low density residential	nonpoint	14%
04040001090	04040001090010	3.76	0.67	3	Urban	point	18%
04040001090	04040001090010	3.76	0.34	4	Sand/bare rock	neutral	9%
04040001090	04040001090010	3.76	0.91	5	Forest	neutral	24%
04040001090	04040001090010	3.76	0.20	6	Shrubs/grasses	neutral	5%
04040001090	04040001090010	3.76	0.29	7	Agriculture	nonpoint	8%
04040001090	04040001090010	3.76	0.48	8	Wetlands	neutral	13%
04040001090	04040001090020	22.46	0.22	1	Open water	neutral	1%
04040001090	04040001090020	22.46	1.46	2	Low density residential	nonpoint	7%
04040001090	04040001090020	22.46	1.05	3	Urban	point	5%
04040001090	04040001090020	22.46	0.00	4	Sand/bare rock	neutral	0%
04040001090	04040001090020	22.46	11.38	5	Forest	neutral	51%
04040001090	04040001090020	22.46	1.43	6	Shrubs/grasses	neutral	6%
04040001090	04040001090020	22.46	3.70	7	Agriculture	nonpoint	16%
04040001090	04040001090020	22.46	3.18	8	Wetlands	neutral	14%
04040001090	04040001090040	1.40	0.05	1	Open water	neutral	4%
04040001090	04040001090040	1.40	0.00	2	Low density residential	nonpoint	0%
04040001090	04040001090040	1.40	0.01	3	Urban	point	1%
04040001090	04040001090040	1.40	0.00	4	Sand/bare rock	neutral	0%
04040001090	04040001090040	1.40	0.51	5	Forest	neutral	36%
04040001090	04040001090040	1.40	0.11	6	Shrubs/grasses	neutral	8%
04040001090	04040001090040	1.40	0.49	7	Agriculture	nonpoint	35%
04040001090	04040001090040	1.40	0.20	8	Wetlands	neutral	14%
04040001100	04040001100010	9.49	0.22	1	Open water	neutral	2%
04040001100	04040001100010	9.49	0.03	2	Low density residential	nonpoint	0%
04040001100	04040001100010	9.49	0.00	3	Urban	point	0%
04040001100	04040001100010	9.49	0.00	4	Sand/bare rock	neutral	0%
04040001100	04040001100010	9.49	2.73	5	Forest	neutral	29%
04040001100	04040001100010	9.49	0.59	6	Shrubs/grasses	neutral	6%
04040001100	04040001100010	9.49	4.36	7	Agriculture	nonpoint	46%
04040001100	04040001100010	9.49	1.46	8	Wetlands	neutral	15%
04040001100	04040001100050	47.55	0.70	1	Open water	neutral	1%
04040001100	04040001100050	47.55	0.34	2	Low density residential	nonpoint	1%
04040001100	04040001100050	47.55	0.06	3	Urban	point	0%
04040001100	04040001100050	47.55	0.00	4	Sand/bare rock	neutral	0%
04040001100	04040001100050	47.55	19.19	5	Forest	neutral	40%
04040001100	04040001100050	47.55	3.67	6	Shrubs/grasses	neutral	8%
04040001100	04040001100050	47.55	18.19	7	Agriculture	nonpoint	38%
04040001100	04040001100050	47.55	5.39	8	Wetlands	neutral	11%
04040001100	04040001100060	24.83	0.31	1	Open water	neutral	1%
04040001100	04040001100060	24.83	0.09	2	Low density residential	nonpoint	0%
04040001100	04040001100060	24.83	0.02	3	Urban	point	0%
04040001100	04040001100060	24.83	0.00	4	Sand/bare rock	neutral	0%
04040001100	04040001100060	24.83	10.52	5	Forest	neutral	42%
04040001100	04040001100060	24.83	1.52	6	Shrubs/grasses	neutral	6%
04040001100	04040001100060	24.83	9.22	7	Agriculture	nonpoint	37%
04040001100	04040001100060	24.83	3.12	8	Wetlands	neutral	13%
04040001100	04040001100070	30.34	0.32	1	Open water	neutral	1%
04040001100	04040001100070	30.34	0.05	2	Low density residential	nonpoint	0%
04040001100	04040001100070	30.34	0.01	3	Urban	point	0%
04040001100	04040001100070	30.34	0.00	4	Sand/bare rock	neutral	0%
04040001100	04040001100070	30.34	11.96	5	Forest	neutral	39%
04040001100	04040001100070	30.34	2.57	6	Shrubs/grasses	neutral	8%
04040001100	04040001100070	30.34	12.05	7	Agriculture	nonpoint	40%
04040001100	04040001100070	30.34	3.20	8	Wetlands	neutral	11%
04040001100	04040001100080	7.64	0.05	1	Open water	neutral	1%
04040001100	04040001100080	7.64	0.03	2	Low density residential	nonpoint	0%
04040001100	04040001100080	7.64	0.03	3	Urban	point	0%
04040001100	04040001100080	7.64	0.00	4	Sand/bare rock	neutral	0%
04040001100	04040001100080	7.64	2.43	5	Forest	neutral	32%
04040001100	04040001100080	7.64	0.72	6	Shrubs/grasses	neutral	9%
04040001100	04040001100080	7.64	3.39	7	Agriculture	nonpoint	44%
04040001100	04040001100080	7.64	0.93	8	Wetlands	neutral	12%