City of East Chicago Municipal Separate Storm Sewer System

IDEM Permittee Identification: INR040141

January 31, 2023

Stormwater Quality Management Plan

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TABLE OF CONTENTS

1.0 Introduction

1.1 Clean Water Act and MS4 State Permit History

2.0 MS4 Area Description

2.1 Narrative Description of the Area
2.2 Description of MS4 Conveyance Systems
- *Table 2.2 Stormwater Outfall List*

2.3 Priority Watershed Ranking
- *Table 2.3 Watershed Priority*

2.4 Utilization of Priority Watershed Information
2.5 Long Term Control Plan and Sewer Sheds

3.0 General Requirements

3.1 Measurable Goals and Program List
- *Table 3.1 Measurable Goals and Program list*

3.2 Timetable
- *Table 3.2 Minimum Control Measure Timetable*

4.0 Public Education, Outreach, Participation

4.1 Public Education, Outreach, Participation, and Involvement Program Goals
4.1.1 Newsletter
4.1.2 Billing Inserts
4.1.3 Website
4.1.4 Events, Meetings, and Training

5.0 Illicit Discharge Detection and Elimination Program

5.1 Illicit Discharge Detection and Elimination Program Goals
5.1.1 Industrial Facilities
- *Table 5.1.1 Industrial Facility List*

5.1.2 Illicit Discharge Detection and Elimination Plan
5.1.3 Ordinance
5.1.4 Removal of Known Illicit Connections
5.1.5 Mapping
5.1.6 Dry-weather Inspections
5.1.7 Stormwater Concerns Public Reporting Phone Line
5.1.8 Employee Training Program

6.0 Construction Site Runoff Program

6.1 Construction Site Stormwater Runoff Program Goals
6.1.1 Inventory of Construction Sites
6.1.2 Procedures for Inspecting and Procedures for Prioritizing Construction Activities
6.1.3 Construction Stormwater Standards and BMP Manual
6.1.4 Contractor and Developer Training
6.1.5 Construction Site Runoff Program Quality Assurance/Quality Control
6.1.6 MS4 Owned and Operated Projects
6.1.7 Develop a Construction Review Process

7.0 Post-Construction Runoff Program

7.1 Post-construction Stormwater Runoff Program Goals
7.1.1 Ordinance Updates
7.1.2 Develop and Adopt a Post-construction Technical Manual
7.1.3 Plan Review
7.1.4 Site Inspection and Enforcement

8.0 Municipal Operations Pollution Prevention and Good Housekeeping Program
8.1 Municipal Operations Pollution Prevention and Good Housekeeping Program Goals
8.1.1 Department Collaboration
- *Table 8.1.1 Municipal Facilities*
8.1.2 Program to Maintain MS4 Conveyances and Structures
8.1.3 Weekly Visual Inspection
8.1.4 Quarterly Inspection
8.1.5 Material management and Sewer and Catch Basin Maintenance
8.1.6 Updating City GIS Storm Sewer and Infrastructure Drainage

9.0 Fee Structure and Expenditures

10.0 Next Steps

11.0 References

12.0 Terms and Abbreviations

List of Appendices

Appendix A: Documentation Tracking
Appendix B: Inspection Forms
Appendix C: Employee Training Log
Appendix D: Exhibits
Appendix E: Supplemental Materials

SWQMP CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name Megan Bolyard
Qualified Professional
Title: Stormwater Specialist BTS

Signature:

Date: 4/3/2023

Name KENNETH L. MYERS
MS4 Operator or Designee
Title: DIRECTOR WASTEWATER OPERATIONS

Signature:

Date: 4/3/23

1.0 INTRODUCTION

As a designated Municipal Separate Storm Sewer System (MS4) entity, the City of East Chicago is required to develop and implement a Stormwater Quality Management Plan (SWQMP) in accordance with the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977, Title 13 of the Indiana Code, Article 5 and 15 of the Title 327 the Indiana Administrative Code, and regulations adopted by the Environmental Rules Board, the Indiana Department of Environmental Management (IDEM) and National Pollutant Discharge Elimination System (NPDES) general permit, INR040000.

1.1 Clean Water Act and MS4 State Permit History

The 1972 Clean Water Act (CWA) introduced the National Pollutant Discharge Elimination System (NPDES). The NPDES program was established as the principal regulatory mechanism of the CWA, requiring direct dischargers of pollutants into water so the United States to obtain an NPDES permit. Between 1972 and 1987, the NPDES permit program focused on improving surface water quality by reducing pollutants from direct point source discharges of industrial process wastewater and municipal sewage. During this time, several nationwide studies on water quality identified stormwater runoff as an additional significant source of water pollution. New components of the CWA in 1987 established a legal framework for and required USEPA to develop a comprehensive phased program for regulating municipal and industrial stormwater discharges under the NPDES permit program.

In November 1990, USEPA issued the Federal NPDES Phase I Rule, which addressed stormwater discharges from medium to large municipal separate storm sewer systems (MS4s). Due to the applicability, the only municipality eligible was the City of Indianapolis. The NPDES Phase II rule, promulgated in December of 1999, addressed small MS4s. The City of East Chicago is one of the Phase II MS4s who became eligible under the 1999 rule.

The Indiana Department of Environmental Management issued the MS4 General Permit (INR040000) on December 9, 2021, which introduced updates to the Phase I and Phase II MS4s.

The City of East Chicago submitted their renewal Notice of Intent to the Indiana Department of Environmental Management Office of Water Quality on June 22, 2022, to continue their MS4 General Permit Coverage and obtain coverage under the newly issued MS4 General Permit issued on December 9, 2021 and became effective on December 18, 2021.

The City of East Chicago is permitted under the MS4 General Permit (INR040000) and their MS4 specific permit identification is INR040141.

As part of the MS4 General Permit requirements, the City of East Chicago is required to develop, update, and implement the Stormwater Quality Management Plan (SWQMP). This document is the City's intent to comply with the requirements of the General Permit in developing the SWQMP. The SWQMP will identify the city's plan to administer the stormwater management program within the MS4 jurisdictional boundaries of the city, whereas by implementing and enforcing the SWQMP, the potential for pollutants will be reduced or eliminated to the maximum extent practicable, to protect water quality and to satisfy the requirements of the Clean Water Act and IDEM's NPDES Stormwater MS4 General Permit. The SWQMP includes a detailed description of all measurable program goals, for each minimum control measure (MCM), as required by the MS4 General Permit.

At least annually the city will review and update this plan and report to IDEM the results of the implementation of the plan during the calendar year prior.

2.0 MS4 AREA DESCRIPTION

The City of East Chicago operates an MS4, which is a series of pipes, ditches, and structures, which are intended to provide drainage of stormwater runoff to local waterways. The city obtained a MS4 General Permit to discharge stormwater from the MS4 Conveyances to Waters of the United States. As a permit requirement of the MS4 General Permit, the City of East Chicago is required to develop, update, and implement a SWQMP. The main goal of the SWQMP is to minimize the potential for pollution which may travel in stormwater discharges from reaching the Waters of the United States and as a result improve the quality of the water resources and better the community of East Chicago.

2.1 Narrative Description of the Area

The City of East Chicago is located in Lake County, Indiana, and is home to 26,099 residents as of 2020 (US Census Bureau). East Chicago is approximately 14.10 square miles. The MS4 boundary for the City of East Chicago is the same as the municipal corporate limits. Exhibit 1 can be found within Appendix 1, and it illustrates East Chicago's MS4 boundary.

2.2 Description of MS4 Conveyance Systems

A conveyance is defined by IDEM as any structural process for transferring stormwater between at least two points. The term includes piping, ditches, swales, curbs, gutters, catch basins, channels, storm drains, and roadways. A MS4 Conveyance will include roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains, that are owned or operated by the city that discharges to the waters of the state, and designed or used for collecting or conveying stormwater, and not part of a combined system or part of a publicly owned treatment works.

East Chicago MS4 area includes approximately 65,000 linear feet of Lake Michigan Shoreline. Other waterways located within the East Chicago City boundaries include the Grand Calumet River, Indiana Harbor Ship Canal, and Lake George Canal.

According to IDEM's 2022 303(d) list of impaired waters, the Grand Calumet River is 303(d) listed for E. *coli* and PCBs in Fish Tissue. The Indiana Harbor Canal is 303(d) listed for PCBs in Fish Tissue, Biological Integrity, E. *coli,* and Oil and Grease. No impairments are listed for the Lake George Canal.

Indiana Harbor connects to the Grand Calumet River by way of the Indiana Harbor Canal, which is approximately 21,400 linear feet between the two waterbodies.

Approximately 20,717 linear feet of the Grand Calumet River runs along the southern portion of the city limits. The Grand Calumet River originates in Gary, and flows through the Indiana cities of Gary, East Chicago, and Hamond. Today 90% of the flow originates from municipal and industrial effluent. The industrial impacts to the river have significantly impacted the water quality, as shown by its impaired designation. Efforts have been focused and continue to be made to restore and revitalize the Grand Calumet River.

The Indiana Harbor Ship Canal is located primarily in East Chicago, Indiana, and is a direct connection from the Grand Calumet River to Lake Michigan. The Indiana Harbor Ship Canal is made up of two canals, the Lake George Branch Canal, and the Harbor Canal. The Indiana Harbor was constructed by the Inland Steel Company beginning in 1901. The US Army Corps of Engineers is responsible for dredging the navigable portion of the Harbor and Canal.

The Lake George Canal runs approximately 5,600 linear feet within the East Chicago MS4 boundary.

The following page is a list of known outfalls and their receiving water and the MS4 Conveyances and outfalls are shown in Exhibit 3.

Table 2.2 Stormwater Outfall List		
Receiving Water	**Outfall Name**	**Description**
Indiana Harbor Ship Canal	14 A	Marktown Storm Sewer Outfall, located west of Dickey Road Bridge
Indiana Harbor Ship Canal	14 B	Dickey Road Bridge over Indiana Harbor Canal, located east of the Canal/Right bank
Indiana Harbor Ship Canal	13 A	Marktown Storm Sewer - Canal Street pump station (South)
Indiana Harbor Ship Canal	13 B	Canal Street pump station (North)
Lake George Canal	12	Indianapolis Blvd. & Lake Geroge Canal (Southeast Corner of Bridge)
Grand Calumet River	2	Roxanna Area Storm Sewer Outfall, Toll Road, located west of Indianapolis Blvd. and across the River from KOC
Grand Calumet River	1	Roxanna Area Storm Sewer Outfall, Toll Road Pump Station
Grand Calumet River	UNKNWN (no name in GIS)	NB Indianapolis Blvd from Roxanna to Michigan and storm sewer system for parking lot and businesses south of Michigan/South of the Toll Road, discharging into Grand Calumet River east of Indianapolis Blvd.
Grand Calumet River	5	Roxanna Pump Station (NIPSCO Property)
Indiana Harbor Ship Canal	16	151st Street Bridge, westside of Indiana Harbor Canal
Indiana Harbor Ship Canal	8	5000 Aster (northeast of 151st Bridge Outfall) (Historic Cleanup for Lead Contamination)
Grand Calumet River	UNKNWN (no name in GIS)	Right bank of Grand Calumet River, between I 90 W and Indianapolis Blvd.
Grand Calumet River	UNKNWN (no name in GIS)	Right bank of Grand Calumet River, Across Grand Calumet River from Outfall 15
Grand Calumet River	3	Right bank of Grand Calumet River, Northwest corner of Indianapolis Blvd bridge
Lake George Canal	11	Indianapolis Blvd. and Canal, Southwest corner of Bridge, drains MacArthur Golf Course
Lake George Canal	UNKWN (no name in GIS)	Indianapolis Blvd Bridge and Lake George Canal, West of Bridge
Lake George Canal	12	Indianapolis Blvd. Bridge and Lake George Canal, East of Bridge
Indiana Harbor Ship Canal	10b	Left Bank West Columbus Drive/US 12 Bridge over Indiana Harbor Canal (Northwest of the bridge), across the river from outfall 10
Indiana Harbor Ship Canal	10	West Columbus Drive Bridge over the Indiana Harbor Canal, northeast of the bridge
Indiana Harbor Ship Canal	9	Chicago Avenue over Indiana Harbor Canal Bridge, southwest corner
Grand Calumet River	6	Right bank, Kennedy Avenue Bridge over Grand Calumet River (east of Kennedy Avenue)
Grand Calumet River	3 (CSO)	Alder Street (NPDES outfall #3)(CSO)
Grand Calumet River	7	Cline Avenue (located near outfall #3 CSO and south of Public Works building located on Cline Avenue)
Grand Calumet River	15	West of NPDES Outfall

2.3 Priority Watershed Ranking

East Chicago city limits are within three sub-watersheds, including the Grand Calumet River – Gary, Lake Michigan Shoreline-Ind Harbor Canal, and Grand Calumet River-West. Of the three, the Lake Michigan Shoreline-Ind Harbor Canal is the highest priority.

The Lake Michigan Shoreline TMDL is listed impaired for E. c*oli* Bacteria. The Lake Michigan Shoreline includes 45 miles within the State of Indiana. As a MS4 Community, the City of East Chicago was listed as a potential contributor via tributary loads but not a significant source of direct discharges of E. c*oli*.

The tributaries which discharge into Lake Michigan are considered the most significant source of E. c*oli* to the shoreline.

Below is Table 2.3 depicting the priority watershed information.

Table 2.3 Watershed Priority

Priority	Subwatershed	Impairments
1	Lake Michigan Shoreline – Ind Harbor Canal	E. c*oli* (pathogens), PCBs in Fish Tissue, Biological Integrity, and Oil and Grease
2	Grand Calumet River – Gary	E. c*oli* (pathogens) and PCBs in Fish Tissue
3	Grand Calumet River – West	E. c*oli* (pathogens) and PCBs in Fish Tissue

2.4 Utilization of Priority Watershed Information

As an MS4 regulated by the MS4GP, East Chicago is required to characterize the water quality of all known water that receive stormwater outfall discharges from the MS4 area. The program will develop throughout the permit term as the information is gathered and the program continues to be implemented.

The known receiving waters include Lake Michigan, Grand Calumet River, Indiana Harbor Canal, Lake George Canal, and associated wetlands. Characterization reports which are known to include sampling information for these waterways, within the East Chicago corporate limits include the IDEM TMDL Report for the Lake Michigan Shoreline – Indiana Harbor Canal Watershed. If at any point, new discharges or new receiving waters are identified, and at least on a yearly basis, the city will reassess the plan and report. As part of the characterization, the city will highly depend on the watershed groups in the area and the data they have collected, as well as the most current data available, including the Lake Michigan Shoreline TMDL for E. coli dated August 12, 2004 (included in the supplements) and any additional data that describes the chemical, biological, and/or physical condition of the receiving waters of the MS4 jurisdictional area. As the plan is implemented and additional data becomes available, if the current available data is found to be deficient or lacking to support the characterization of the receiving waters, this information will be reevaluated, and a program may be developed to further sample and identify the priority areas.

2.5 Long Term Control Plan and Sewer Sheds

According to the most recent draft of the city's long term control plan (LTCP), East Chicago's combined sewer system is roughly delineated into 10 sewer sheds, with three CSO Pump stations, including Michigan Street (CSO 002, into Indiana Harbor Ship Canal), Alder Street (CSO 003, into Grand Calumet River), and Magoun Avenue (CSO 005, CSO Lagoon at the WWTP, into Grand Calumet River).

The current LTCP focuses on end of pipe treatment and until it is approved by IDEM, it will remain in Draft form. The most recent draft was not accepted by IDEM due to the timeframe for completion presented within the LTCP. The city withdrew their application and is aiming to resubmit the plan by the beginning of 2023.

In general, the city is still approximately 90% combined sewer and has a portion of the sewer system separated, with a portion of the system altered for additional in-pipe storage via relief sewers, and the remaining combined sewer. Although additional storage has been added to the sewer system, it appears the combined sewer will continue to contribute to the potential pollutant discharges to the receiving waters without further implementation of the LTCP.

The southwest portion of the corporate limits, commonly called Roxanna, is separated storm system.

3.0 GENERAL REQUIREMENTS

The MS4 must administer the program components throughout the jurisdictional area and list the responsible individuals and contact information, responsible for administering each minimum control measure. As changes occur, updates to the SWQMP and associated plans and documents will be made. At least annually, the SWQMP will be reviewed and updated. The Annual Report will reflect the changes and document progress.

As an MS4 permittee who is renewing their permit coverage, the City of East Chicago is required to update the existing stormwater ordinances and supplemental regulatory documents by July 2024. Within this plan there are specific goals set for updating the ordinances, which will meet this general requirement.

The MS4 jurisdictional boundaries are depicted in Exhibit 1. These are included in the City's Geographical Information System (GIS) and align with the municipal corporate limits. Within the MS4 area, the stormwater evaluation for all structural stormwater management measures and identification of such will be completed within the first permit year and any found, which are not already identified in the GIS, will be added to the existing GIS.

3.1 Measurable Goals and Indicators Summary

Table 3.1 identifies the program goals for each minimum control measure (MCM). The individual(s) that are responsible for implementing each MCM are included. Overall, each goal which is carried out contributes to reducing the discharge of pollutants and to protect water quality.

Table 3.1 Measurable Goals and Program List						
	Measurable Goal	Programmatic Indicator	Tracking Mechanism	Environmental Indicators	Area(s)	Responsible Party
Public Education, Outreach, Participation, and Involvement						
1.	Community Member Education and Engagement through special events and website.	More awareness through public education and participation.	Tracking each event and estimated number of attendees and volunteers. Including website traffic monitoring. Track the information in a log/ form/ spreadsheet.	Comprehensive program results in positive environmental impacts through education, raised awareness and involvement.	East Chicago MS4	MS4 Coordinator, Stormwater Department, with assistance from the Special Events Committee
2.	Contractor Education and Engagement	Reduced sediment tracking and erosion potential and an increase in compliance and good use of BMPs at construction sites.	Track attendance at the annual event	Sediment	East Chicago MS4	MS4 Coordinator, Stormwater Department NISWAG Sponsored Event, Planning Department
3.	Household Hazardous Waste Cleanup Day	Increased public awareness and reduced open dumping incidents	Tracking the number of households who participate/ amount of vehicles/volume of waste	Chemical, Nutrients, and Oil and Grease	East Chicago MS4	Lake County SWMD and MS4 Coordinator
4.	Municipal Employee Training	Decrease in spill/increase in overall awareness	Track attendance and number of incidents	Chemical, Oil and Grease	East Chicago MS4	MS4 Coordinator, Environmental Consultant

Table 3.1 Measurable Goals and Program List Continued						
	Measurable Goal	Programmatic Indicator	Tracking Mechanism	Environmental Indicators	Area(s)	Responsible Party
Illicit Discharge Detection and Elimination						
1.	Ordinance Update	Ordinance amendments completed and accurate	Document updates to the ordinance and post on Stormwater Department Website. Present at a public meeting.	Comprehensive program results in positive Water Quality impacts	East Chicago MS4	MS4 Coordinator, Environmental Consultant, Stormwater Board, City Council
2.	Update and develop the IDDE Plan and SOPs	IDDE plan development	Document update to the IDDE Plan and provide information to Employees in annual training.	Chemical, Pathogens, Nutrients, and Oil and Grease	East Chicago MS4	MS4 Coordinator, Environmental Consultant
3.	Update Mapping	Updated as new information is found or verified	Number of outfalls located and updated	Chemical, Pathogens, Nutrients, and Oil and Grease	East Chicago MS4	MS4 Coordinator, GIS Team
4.	Dry Weather Inspections	Number of inspections completed, % of total outfalls	Found discharges, number of corrected illicit discharges	Chemical, Pathogens, Nutrients, and Oil and Grease	East Chicago MS4	MS4 Stormwater Compliance Inspector and Coordinator
5.	Public Reporting Phone Line	Number of incidents reported, and interest categories reported	Log the number of calls, complaint category, and geographic area/water resource impacted.	Chemical, Pathogens, Nutrients, and Oil and Grease	East Chicago MS4	MS4 Coordinator
6.	Employee Training	Increase in addressed potential illicit discharges.	Track the number of employees trained and the source of the training. Track the number of investigated Illicit Discharges.	Chemical, Pathogens, Nutrients, and Oil and Grease	East Chicago MS4	MS4 Coordinator, Environmental Consultant

Table 3.1 Measurable Goals and Program List Continued						
	Measurable Goal	Programmatic Indicator	Tracking Mechanism	Environmental Indicators	Area(s)	Responsible Party
Construction Site Stormwater Runoff						
1.	Inventory of Construction Sites	Develop a standard for tracking the construction activities/ development	Log each applicable construction activity and perceived priority, construction sequence/phasing.	Sediment	East Chicago MS4	MS4 Coordinator and Planning and Economic Development
2.	Update Ordinance, Include Enforcement Mechanism	Ordinance amendments completed and accurate	Document updates to the ordinance and post on Stormwater Department Website. Present at a public meeting.	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator
2.	Inspection Procedures and Prioritizing Construction Activities	Number of inspections completed for each category of land disturbance and inspection type	Log number of inspections completed and land disturbance and inspection type (1-5 acres, greater than 5 acres, and initial/complaint/ routine)	Sediment	East Chicago MS4	MS4 Coordinator and Planning and Economic Development
3.	Construction Standards BMP Technical Manual	Review and update ordinance, make amendments to reference construction BMP manual.	Document updates to the ordinance and post on Stormwater Department Website. Present at a public meeting.	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator, Environmental Consultant, Stormwater Board
4.	Contractor and Developer Training	Documented annual training	Number of participants	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator, Stormwater Department
5.	Development of a Construction Plan Review Process and QAQC	Review the Plan to ensure it meets the most current construction requirements	Log the number of plans reviewed and locations for compliance related inspection	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator, Planning and Engineering, Environmental Consultant

Table 3.1 Measurable Goals and Program List Continued						
	Measurable Goal	Programmatic Indicator	Tracking Mechanism	Environmental Indicators	Area(s)	Responsible Party
Post Construction Stormwater Runoff						
1.	Ordinance Update	Ordinance amendments completed and accurate	Document updates to the ordinance and post on Stormwater Department Website. Present at a public meeting.	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator, Environmental Consultant, Stormwater Board
2.	Technical Post Construction Standards Manual	Review and update ordinance, make amendments to reference post-construction manual	Document updates to the ordinance and post on Stormwater Department Website. Present at a public meeting.	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator, Environmental Consultant, Stormwater Board
3.	Plan Review	Review the Plan to ensure it meets the post-construction requirements	Log the number of plans reviewed, and locations for proposed post-construction and long-term Operation and Maintenance Plans	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator, Planning and Engineering Department, Environmental Consultant
4.	Site Inspection and Enforcement	Inspect and document post-construction BMPs	Log number of inspections, findings, and resolutions	Sediment, Nutrients, Oil and grease	East Chicago MS4	MS4 Coordinator/ Stormwater Compliance Inspector, City Engineer

Table 3.1 Measurable Goals and Program List Continued						
	Measurable Goal	Programmatic Indicator	Tracking Mechanism	Environmental Indicators	Area(s)	Responsible Party
Municipal Operations Pollution Prevention and Good Housekeeping						
1.	Department Collaboration	Conduct regular meetings, cross-program implementation, and continued development	Document meeting attendance and tasks related to MCMs	Comprehensive program results in positive Water Quality impacts	East Chicago MS4	MS4 Coordinator, Department Supervisors (Parks, Public Works, Bus Transit, Wastewater)
2.	Materials Management and Maintenance of Conveyances, Sewer Lines, and Structures	Conduct routine maintenance, tracking the areas with higher volumes of trash	Document location of maintenance and condition of structure/outfall/conveyance and any repairs/maintenance completed	Litter and Sediment	East Chicago MS4	Public Works Director, Collection System Manager
3.	Monthly Visual Inspections	Inspect and document inspection findings	Log the inspection findings and deficiencies. Log corrective action and completion dates.	Sediment, Chemicals, Oil and Grease, Nutrients	East Chicago MS4	Public Works Director, Bus Transit Director, Parks Director
4.	Quarterly Inspections	Inspect and document inspection findings	Log the inspection findings and deficiencies. Log corrective action and completion dates.	Comprehensive program results in positive Water Quality impacts	East Chicago MS4	MS4 Coordinator, Stormwater Inspector, and Department Supervisor

3.2 Timetable

According to the IDEM MS4GP, a permit year is on a calendar year schedule. Permit year one included January 2021 through December 2022, and each following calendar year subsequently is the next permit year.

Table 3.2 on the following page represents the SWQMP implementation.

Table 3.2 Minimum Control Measure Schedule					
MCM List	2022	2023	2024	2025	2026
Public Education, Outreach, Participation, and Involvement					
1. Newsletter/Social Media Platforms					
2. Billing Inserts					
3. Website					
4. Public Meetings					
5. Educational Tours					
6. Public Events (2)					
7. Solid Waste Cleanup - HHW					
8. Contractor Workshop					
9. Employee Training					
Illicit Discharge Detection and Elimination					
1. Ordinance Update					
2. Removal of known illicit connections / downspout disconnection program					
3. Mapping					
4. Dry weather inspections					
5. Complaint hotline					
6. Employee training program					
Construction					
1. Inventory of construction sites					
2. Procedures for Inspections					
3. Implementation of Construction Stormwater standards					
4. Training					
5. Develop and Adopt Construction review process					
6. Construction BMP Standards Tech Manual					
Post Construction					
1. Ordinance updates					
2. Post construction BMPs/LID/Post Construction Guide/Tech Manual					
3. Develop and Adopt post construction review and inspection process					
4. BMP inspection and maintenance plan					
5. Infrastructure Planning					
Municipal Operation Pollution Prevention and Good Housekeeping					
1. Program to Maintain Streets and Catch Basins					
2. Employee Training					
3. Develop and Implement facility SWPPP and SPCC Plan					
4. Street sweeping all public streets 2X a year					
5. Catch basin inlet maintenance, including hood inspection and replacement					
6. No Dumping signage					

Each of the MCM measurable goals are described in detail in the subsequent sections of this plan.

4.0 PUBLIC EDUCATION, OUTREACH, PARTICIPATION, AND INVOLVEMENT

Implementing and managing an effective stormwater management program for the City of East Chicago considers educating the community members, raising awareness, and encouraging involvement throughout the City of East Chicago. Through various opportunities to learn and participate, such as events, newsletters, websites, and programs, the city will incorporate the participation of the community members. By increasing educational opportunities for the public on ways to reduce pollutants from entering the stormwater conveyance system further assumes the program will improve overall stormwater quality. More details of this component of the Stormwater Management Plan are described in the following section of this document.

4.1 Proposed Public Education, Outreach, Participation, and Involvement Program Goals

The City of East Chicago has identified various ways they intend to educate community members about the importance of stormwater management. Described below are the program goals for this minimum control measure (MCM):

The Annual Report will identify the description of the activity conducted during the Calendar year, number of attendees, assessment of the goals and objectives, number, and types of educational opportunities for contractors, developers and builders, property owners, and other targeted entities during the reporting period.

4.1.1 Newsletter

The City of East Chicago plans to develop a Newsletter focusing on the importance of stormwater management and highlighting the structural controls and non-structural controls the city has implemented to address the potential for pollutants from stormwater to enter the MS4 conveyances. The Mayor of East Chicago and his staff produce an informative newsletter every couple of months that informs residents of what's happening in East Chicago. The newsletter is mailed to all homes in East Chicago and can be downloaded from the City's website as well. The stormwater newsletter will be developed to promote the importance of stormwater management and what small steps households can take to help the city develop a program that is effective at reducing stormwater from entering the sewer system and reducing pollutants that enter the conveyances and waterways. The stormwater management article within the Newsletter will be completed in 2023. This will be written to present ideas on promoting infiltration, such as rain gardens, highlight areas around the city where the city has implemented a post construction stormwater best management measure, trash and debris management and collection, and ways the city has implemented a cleaning schedule (signage for cleaning up pet waste, street sweeping program, ordinance for prohibiting non-stormwater discharges to the MS4, inspection and maintenance of structural BMPs, public education sessions, public rain barrel distribution program).

4.1.2 Billing inserts

The City of East Chicago plans to include informative language in the free-write space of the water utility bill. The informative language will educate the public about various stormwater related topics. In the fall, the message will be to keep the drains clean and free of leaf litter and debris. By educating the community on the importance of keeping the drains clean and informing the public that stormwater flows unfiltered to lakes and rivers, it is important to continuously inform the community of the ongoing need to keep pavement clear of debris. In summary, continuously educating the community and serving to minimize pollution to the waterways. In addition, reducing the build-up of leaf debris during the fall will help prevent flooding which could occur due to leaves blocking a sewer. Monthly water bill mailings will go out to all households and a copy of the inserted information will be kept on file.

4.1.3 Website

The City of East Chicago Stormwater Department continues to develop their stormwater website to include the most up to date information for the community. The website currently includes training videos, a link to the city's stormwater ordinance, a hotline for all stormwater quality concerns or complaints, and is also utilized to promote public events, as well as to post notices and reports. The website will be kept up to date and as the following are completed, they will be added to the website: Annual Reports, fees, and rates information, and then updates to this plan.

4.1.4 Events, Meetings, and Training

The Stormwater Board holds two public meetings every month. The updates to the stormwater program will be presented at the public meetings to obtain public involvement and participation in the development of the program. Public meetings are an excellent way to inform the community about stormwater related initiatives and to gain support for the proposed stormwater management program. The board will be updated at least annually, including but not limited to upon completion of the stormwater management plan, summarizing annual reports submitted to IDEM, and to the extent deemed necessary, during the development process for the ordinance and technical standards manual.

As part of the public education platform, the City of East Chicago Sanitary District is working with the local High School to coordinate tours of the wastewater plant, where the Sanitary Director and Stormwater MS4 Coordinator will present wastewater and stormwater management practices during the tour with the students. The tours will be completed in the late fall 2022 and tracking of the attendance and information presented will be completed. The ongoing goal is to include the high school students as participants in the stormwater initiatives and teach them about the processes as well as the program management and resource management side of the industry, and by demonstrating the two programs, this will build awareness and therefore improve the effectiveness of the programs for the East Chicago community.

The City of East Chicago MS4 will pass out information to the public who participate at public events within the city. The stormwater team will participate in at least two events a year. Amongst the potential events the stormwater team may participate in is the annual "Team up – Cleanup" event held in the spring. The event is publicized throughout the city and participation is separated by districts and hosted by the Public Works Department. This event will be utilized to reach the public to educate them on the importance of picking up trash and debris and keeping the storm drains and conveyances clean.

Two other options for public education through special events, include the annual Arbor Day event, where staff can promote and coordinate with an industry in the city to participate with the Parks Department to plant trees in a city park, and a Beach Cleanup event. The city holds two beach cleanup events a year where community members participate and are provided with information about the city, as well as a complimentary lunch. The stormwater team will plan to give away promotional items, with the City Stormwater Department website and complaint line. In addition to the annual Beach Cleanup event the city hosts, the Lion's club holds an additional opportunity for community members to contribute and participate in a beach cleanup in August.

In addition to the clean-up events held throughout the city, the stormwater team plans to help the community members properly dispose of unwanted household hazardous waste by coordinating with the Lake County Solid Waste Management District Household Hazardous Waste Cleanup days and plans to reach out to the county to see if they can hold an event in East Chicago starting in the Calendar year of 2023 and future years annually. All Lake County Solid Waste Management District cleanup days will be promoted through the city's stormwater website.

Stormwater related education for Construction and Erosion and Sediment Control for the City of East Chicago will be further accomplished through materials provided to developers during licensing and through the implementation of construction technical standards.

Educational materials will be handed out at each event and at least two events per year will be held for the public to participate and receive stormwater education specific to the East Chicago community.

Employee training will be held annually, and those that are involved in the implementation of the program will be receiving at least twelve hours of training with at least eight hours distributed among the MCM(s) for which they are responsible for administering. The MS4 Coordinator for East Chicago and team members involved in administering the SWQMP, will obtain the training hours through active participation in the NISWAG monthly meetings, through conferences and webinars held specifically related to Stormwater Management, and additional avenues of accredited in classroom and online learning. They will keep records of the training and track their progress throughout the year to submit the end of year information within an annual report to IDEM.

Annually the NISWAG, MS4 Partnership, and private sponsors hold an annual contractor workshop to educate the developers and contractors on Stormwater Management for construction and development. The City of East Chicago plans to promote the workshop by providing information to all new and renewed contractor licenses in the City of East Chicago.

5.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

MS4s are required to develop, implement, and enforce a program to detect and eliminate illicit discharges into the MS4. The program must include development of a storm sewer system map; a method for prohibiting non-stormwater discharges into the MS4 with enforcement procedures and actions; a method for detecting non-stormwater discharges, including illegal dumping to the MS4, and a program to educate public employees, businesses, and the public on the hazards associated with illegal discharges and improper disposal of waste.

Illicit discharge is defined as any discharge to a MS4 conveyance that is not composed entirely of stormwater, except naturally introduced floatable materials, such as leaves or tree limbs. Source of illicit discharge include but is not limited to sanitary wastewater, septic tank effluent, commercial car wash wastewater, oil spills or disposal, radiator flushing disposal, laundry wastewater, roadway accident spillage, pollutant run-off, and household hazardous wastes.

5.1 Illicit Discharge Detection and Elimination Program Goals

The City of East Chicago remains committed to improving their Illicit Discharge Detection Program. Illicit discharges to the MS4s are wastes and wastewaters that are not from stormwater runoff and are not otherwise authorized by an NPDES permit. They enter the system from a direct connection or through indirect connections. They range from wastewater piping connected to a storm drain or spills entering a storm drain. The City of East Chicago has identified important components of the IDDE Program which will be implemented over the five-year permit term. Each component is discussed below.

5.1.1 Industrial Facilities

As part of the IDDE plan, the city has identified industrial facilities located within the corporate limits, as shown on Exhibit 4. Industrial facilities are potential sources of illicit discharges within a community. Industrial facility is defined in the MS4GP as land utilized in connection with manufacturing, processing, or raw material storage at facilities or an activity that is subject to regulation under the National Pollutant Discharge Elimination System (NPDES) program. There are various types of industries, including the highest risk category of steel manufacturing and the low-risk facilities including oil and grease from restaurants. The table below includes the list of the facilities with the relating information.

Table 5.1.1 Industrial Facility List			
Name:	**Mailing Address:**	**Phone Number:**	**Industrial Category:**
Actin Inc.	1102 East Columbus Drive	(219) 397-5020	Construction
Advance Sweeping Services, Inc.	1501 Broadway Street	(219) 398-7520	Industrial Sweeping Service
Advance Sweeping Services, Inc.	425 W. Chicago Avenue	(219) 398-7520	Industrial Sweeping Service
American Bar Products, Inc.	3600 Indiana Harbor Dr.	(219) 354-0750	Industrial Steel
American Terminals, Inc.	3600 Canal Street	(219) 398-4300	Manufacturing
Buckeye Terminals, LLC	428 West Columbus Drive	(219) 397-2234	Pipeline
Buckeye Terminals, LLC	400 E. Columbus Drive	(219) 397-6666	Pipeline
Calumet Waste & Recycling Inc.	1101 East 139th Street	(219) 392-0345	Waste & Recycling
Cleveland Cliffs	3210 Watling Street	(219) 399-1200	Industrial Steel
Electric Coating Technologies, LLC	4407 Railroad Ave	(219) 378-1930	Industrial Steel
Gannon Metal Fabricators, Inc.	418 East Chicago Avenue	(219) 398-0299	Industrial Steel
Green Lake Tube, LLC	4500 Euclid Avenue	(219) 397-0495	Industrial Steel
Harsco Minerals Briquetting LLC	5222 Indianapolis Blvd	(219) 397-0200	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
Heidtman Steel Products, Inc.	4407 Railroad Avenue	(219) 256-7426	Industrial Steel
Hoist Material Handling Inc.	4407 Railroad Avenue	(708) 458-2200	Manufacturing
Nova Steel, Inc.	4809 Tod Avenue	(219) 397-5000	Industrial Steel
Kapital Steel, LLC	1215 E. 143rd Street	(844) 527-4825	Industrial Steel
Lakeshore Railcar & Tanker Services LLC	1150 East 145th Street	(219) 398-7777	Industrial Railcar & Tank Services
Linde Inc.	4400 Kennedy Avenue	(219) 398-3700	Industrial Gas Supplier
LyondellBasell Advanced Polymers Inc.	4404 Euclid Avenue	(219) 354-2747	Plastic Fabricator/Industrial Polymer
Majac Steel & Processing, LLC	425 W. 151st Street	(219) 397-5489	Industrial Steel
Metal Management Indiana Inc./SIMS Metal	425 West 152nd Street	(219) 378-7426	Scrap Metal Recycling
National Industrial Maintenance, Inc.	4530 Baring Avenue	(219) 398-6660	Industrial Maintenance
National Material Company	4506 West Cline Avenue	(219) 397-5088	Steel Distributor
NH Environmental Group, Inc./Tierra Environmental	3821 Indianapolis Blvd	(219) 398-4000	Environmental Services

Table 5.1.1 Industrial Facility List			
Name:	**Mailing Address:**	**Phone Number:**	**Industrial Category:**
Norco Pipeline	3823 Indianapolis Blvd	(219) 397-3888	Gas Company
NPL Construction Co.	5334 Indianapolis Blvd	(779) 255-0249	Construction
Praxair, Inc.	2551 Dickey Road	(219) 397-6940	Industrial Gas Supplier
Professional Locomotive Services, Inc	4949 Huish Drive	(219) 398-9123	Railcar/Railroad
Randall Metals Corporation	3777 Canal Street	(219) 256-7370	Industrial Steel
Refractory Service Corp., Inc.	4900 Cline Avenue	(219) 397-7108	Refractory
Safety-Kleen Systems	601 Riley Road	(219) 397-1131	Waste Management Services
Smith Ready Mix, Inc.	3868 Michigan Avenue	(219) 462-3191	Ready Mix Concrete Supplier
Sneed Construction Inc. 2019	4825 Alexander Street	(219) 712-8715	Construction
United States Gypsum Company	301 Riley Road	(219) 393-4600	Gypsum Product Supplier
W.R. Grace & Company	5215 Kennedy Ave	(219) 391-4600	Manufacturer

5.1.2 Illicit Discharge Detection and Elimination Plan

The City of East Chicago has developed a plan to address Illicit Discharge Detection and Elimination. As part of the plan, stormwater illicit discharge complaints will be inspected within 48 hours or within a maximum of two business days of receipt of complaint. All inspections which result in finding a deficiency or illicit discharge, will require a corrective action and corrective action implementation schedule, delivered in writing to the City Stormwater Compliance Inspector. A follow-up inspection will be conducted to verify corrective actions are completed and documented. A log will be completed to track alleged illicit discharges including the date the discharges were observed/reported, inspection dates, results of the inspection, corrective actions completed/resolution, and completed date. Logs will be on file for review purposes, as well as any supporting documentation.

All inspection reports must be completed within 5 days of the inspection and sent to the owner of the property and operator or responsible individual for the illicit discharge. All reports will require a written submittal documenting the corrective action and completion date.

The stormwater ordinance must be updated within the first two years of the permit, or by July 2024. When updating the ordinance, the city will evaluate ways to address illicit discharges, and consider procedures which must be adopted in ordinance to address illicit discharges, further defining the methods that will be used to eliminate illicit discharges.

All illicit discharges determined to be an immediate threat to human health, or the environment will be reported to the local hazardous materials office or IDEM emergency spill line at (888) 233-7745.

5.1.3 Ordinance

The City of East Chicago plans to update the stormwater ordinance that is in place. At this time, the ordinance identifies what is a prohibited discharge but needs to be improved to meet the most current IDEM MS4 General Permit requirements. The updates to the ordinance will be completed by July 2024. Currently, the ordinance addresses illicit discharges in section 1.40-1.47 of the Control of Stormwater Ordinance.

5.1.4 Removal of Known Illicit Connections

A measurable goal of the IDDE Plan includes identifying the remaining illicit discharges, known connections to the sewer system from downspouts and reducing the remaining illicit connections over the next five years. A priority area would be any area with higher numbers of flooding reported in the basements or homes with basements. An indicator the program is working is reduction of the CSO reported to the outfalls where the stormwater runoff from the roof would be removed and no longer contributing to the combined system. The outfalls impacted by the removal of residential gutter drainage will be kept in a spreadsheet and the stormwater team will work with the infrastructure team for proper tracking. The stormwater department will work with the public works department to assist in information dispersal to the homeowners. Implementation of this goal will take until the end of the five-year permit term.

5.1.5 Mapping

The storm drain system map will be updated and a comprehensive map of the outfalls and wastewater and stormwater infrastructure will be current by July 2023. The current map has not been field verified to include latitude and longitude coordinates. Once updated, and field verified, the map will aid the city in targeting outfalls with dry weather flows and other suspicious discharges for more in-depth inspection and monitoring and will help coordinate management activities to remove illicit connections and track storm drain system maintenance.

5.1.6 Dry-weather Inspections

During dry weather, 25% of the storm drain system outfalls per year will be inspected to identify non-storm water flows. Once each year's survey is complete, areas with suspicious discharges will be inspected with video cameras to detect suspected direct connections to the wastewater system and identify areas where wastewater might be leaking into adjacent storm drainpipes. The city will focus on areas that have not disconnected downspouts from the wastewater collection system and areas they are aware of having the oldest infrastructure. Deteriorating infrastructure might have resulted in directly connected wastewater pipes. The video inspection in areas with high nutrient levels, or visible sheen or suds, or discharges during dry weather screening will efficiently identify illicit connections.

5.1.7 Stormwater Concerns Public Reporting Phone Line

A hotline for community members to report stormwater concerns is posted on the East Chicago Stormwater Department website. The hotline will be advertised at all public events and within public education materials. In addition, an insert will be added to each homeowner's and business's water utility bill every 6 months. The hotline will supplement the city's efforts to target outfalls for video inspection and will aid in the cleanup and remediation of dump sites. Advertising the hotline will serve as an educational tool for the public, informing them about the hazards of illicit discharges and illegal dumping.

The city has a designated phone number for complaints and promotes the number to the public during education and outreach events for the members of the public to call with concerns or to report an illicit discharge. The complaint will be investigated within 48 hours, sooner if the complaint is alleging serious potential for water quality impacts or a time sensitive matter such as a person actively dumping into a storm sewer. The investigator will document their findings and conduct follow-up inspections as needed to document corrective actions. The investigator will track complaints received, findings, and corrective actions and a completion date to later provide a summary of the incidents reported. The summary will be utilized in the annual assessments of this plan. If the assessment finds the plan to be deficient, or if an area of concern is identified through increased complaints associated with a certain area or a trend in the type of incident occurring, then a new measurable goal will be created to address the area of concern.

5.1.8 Employee Training Program

City Employees who are involved in the maintenance of the city's infrastructure and maintain a portion of the city's streets and whose duties involve sanitation, will receive an annual training with a portion of the training focusing on the illicit discharge detection and elimination program. Through this training, the city will be able to raise awareness of potential stormwater management concerns which have visual indicators and teach employees how to respond to illicit discharges. This all-hands-on deck approach will aid in implementation of the illicit discharge detection and elimination program and therefore, increase the detection and reduce the potential for pollutants to enter the MS4 via illicit discharges.

6.0 CONSTRUCTION SITE STORMWATER RUNOFF PROGRAM

The City of East Chicago MS4 program must develop and implement a program to reduce pollutant discharges from stormwater runoff associated with land disturbing activities (Construction). More specifically, if construction activities disturb one acre or more or is part of a larger common plan of development or sale that would disturb one or more acres of land, then a stormwater pollution prevention plan must be developed, implemented, and a permit obtained which identifies their intent to comply. The MS4 program includes offering educational opportunities to active Contractors and Developers, reviewing construction stormwater pollution prevention plans, inspecting construction sites, following up on non-compliance, and reporting and tracking inspections and resolutions.

The City of East Chicago MS4 program currently is rebuilding their municipal department as through retirement they have lost several long-term dedicated employees who have been servicing the City of East Chicago for the length of time the program has been in place. This loss in staff members has allowed for rebuilding of the team, but also offered minor setbacks to the program. Consulting services have been hired to assist with administering the program.

6.1 Construction Site Stormwater Runoff Program Goals

The City of East Chicago is working on developing their technical review and building permitting process to administer the City's planning and economic development program. As part of the city's current process, the MS4 Coordinator receives plan review information through the technical review communication, which is managed through the Planning and Economic Development Department. Development which constitutes an acre or more of disturbance must include a stormwater pollution prevention plan which meets the Indiana Department of Environmental Management Construction Stormwater General Permit requirements. The MS4 Coordinator or their designee will review the Stormwater Pollution Prevention Plan for completeness within ten days if an acre or less than five acres, and within 14 days if 5 or more acres. Within the 10 to 14 days, the MS4 Coordinator will provide the results of their review, including a construction stormwater pollution prevention plan technical review, to the developer with their approval or request for more information.

6.1.1 Inventory of Construction Sites

When a developer submits to the Planning Department a plan to disturb an acre or more of land or part of a larger common plan of development, the MS4 Coordinator and stormwater department staff will track all projects on a spreadsheet or within a tracking system. The city has been looking into different avenues for tracking the construction sites and compliance efforts for the MS4 program. Continued improvements will be made as the plan is implemented over the course of the next four to five years. Updates will be included in the annual reports submitted to IDEM.

6.1.2 Procedures for Inspecting and Procedures for Prioritizing Construction Activities

The MS4 Coordinator or designee will conduct inspections at all new construction sites, which are an acre or more, within the initial grading stages of construction activities, and bi-annually for sites that are five or more acres. If a construction site is less than 5 acres, it will be inspected annually until it reaches final stabilization. All complaints will be inspected.

If the MS4 Coordinator or their designee finds the site to not be complying with their approved erosion and sediment control plan, follow-up and enforcement may occur. All deficiencies will require a follow-up inspection or documentation to demonstrate compliance. All follow-up inspections and correspondence will be completed within seven days of the initial findings.

6.1.3 Construction Stormwater Standards and BMP Manual

The draft ordinance update will include a set of stormwater quality measures and a stormwater quality technical manual for contractors and developers to reference and specific standards which they will need to follow during construction. All construction sites are contributors of sediment on a per acre basis, and planning for erosion and sediment control practices and procedures in advance of starting construction is an important step in preventing sediment from entering the MS4.

6.1.4 Contractor and Developer Training

The city is setting a goal to obtain 80% compliance with the erosion and sediment control requirement by the end of the first permit term. Participating within and advertising the Lake County Developer and Contractor Workshop will be an important step in educating the construction industry on stormwater management. Every February a Contractor's and Developer's workshop is held and promoted to Lake, Porter, and LaPorte Counties. Educating contractors about the proper selection, installation, inspection, and maintenance of BMPs will help to ensure compliance with the erosion and sediment control requirements. Additional education will occur through planning meetings and site visits with the contractors and construction teams.

6.1.5 Construction Site Runoff Program Quality Assurance / Quality Control

The MS4 Coordinator and/or a member of the Stormwater Department and the Sanitary Department sit in on the technical review meetings. As part of the meeting the city will discuss all projects that come through the program for review. The Stormwater Department will be actively involved and able to identify projects that may not have submitted a SWPPP, but may have needed one, by being involved in the review committee meetings.

6.1.6 MS4 Owned and Operated Projects

For all MS4 owned and operated projects, the city will comply with the IDEM CSGP and seek approval of municipal owned projects by the County Soil and Water Conservation District or IDEM. If municipal employees are reviewing the SWPPPs in-house, an annual review will be conducted with the Agency/SWCD/or experienced Qualified Professional.

6.1.7 Develop a Construction Review Process

As part of the Construction Review Process, the city plans to audit the building and development program to determine if the department currently has a checklist they utilize for incoming plans. If it is determined there isn't a checklist, one will be created and if there is, the checklist will be improved to include the items that are needed to meet the Stormwater Ordinance. This goal will be completed within permit year 2023 and implemented throughout the permit cycle.

7.0 POST-CONSTRUCTION STORMWATER RUNOFF PROGRAM

The City of East Chicago must develop and implement a program to address stormwater runoff from development and redevelopment projects that are an acre or more of land disturbance or of a larger common plan of development. The program will develop and implement structural and non-structural controls appropriate for the community. Using the ordinance and supplemental technical standards manual, as regulatory mechanisms, the MS4 program will address the post-construction runoff to the maximum extent possible, and plan to ensure adequate long-term operation and maintenance of BMPs.

7.1 Post-construction Stormwater Runoff Program Goals

As described in detail in the above, the city has a technical review committee which receives and reviews applications for developing or redeveloping within the corporate limits and ensures ordinances are followed. As part of the process the plans will be reviewed to meet the post-construction requirements of the Stormwater ordinance. The City of East Chicago has a subchapter of the ordinance that is specific to post-construction, which establishes the requirements for installation of permanent stormwater quality features designed to intercept and filter pollutants in stormwater discharge from newly developed or redeveloped construction sites of one acre or more.

7.1.1 Ordinance Updates

The City of East Chicago plans to update the stormwater ordinance post-construction section to include more direct requirements for designing for post-construction stormwater management measures and developing and implementing a stormwater technical standards manual. The goal is to have the draft ordinance updates and technical standards manual developed by July of 2023 and adopted by the board by July of 2024.

7.1.2 Develop and Adopt a Post Construction Technical Manual

The city intends to develop and implement a stormwater technical manual by July 2023, which includes performance standards designed to control sediment. By year four of the permit term, 80% of all building permits will include descriptions and plans regarding stormwater control practices and site designs that comply with the stormwater technical manual. The post construction measures identified in the technical standards manual will include percent TSS reduction where appropriate, address maintenance needs, and in return, when implemented, have a positive effect on the receiving waters.

7.1.3 Plan Review

During the plan review process, the reviewer will ensure post-construction measures are meeting the ordinance and the IDEM CSGP. Once the Post-construction technical standards are in effect, the city will ensure the measures meet the standards during the planning stages and review process. Specific standards will be listed which are applicable to the area and acceptable to the city. The developer will be required to supply documentation showing the measures that meet the standards, including operation and maintenance manuals and identification of ownership and inspection frequency for all post-construction structures.

7.1.4 Site Inspection and Enforcement

The city will conduct inspections on the structural stormwater measures to ensure the owner of the measure is meeting the requirements of the city's ordinances, standards, and technical manual. A checklist for the inspector will be created to compliment the updates and will be utilized to track compliance and document inspection to meet the city's MS4GP requirements.

Inspections of post construction structural stormwater measures owned and operated by the city will be conducted and tracked by using the same checklist that will be developed and implemented for privately owned structural stormwater management measures.

In the year 2023 the city will identify all existing MS4 Owned and Operated structural stormwater measures and will include the updated information within the 2023 annual report to IDEM.

All measures will have an operation and maintenance plan and inspected per the plan identified frequency.

Maintenance will be tracked and reported to the Stormwater MS4 Coordinator annually.

8.0 MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM

The City of East Chicago MS4 program includes developing and implementing a program to address stormwater runoff from municipally owned facilities and activities.

8.1 Municipal Operations Pollution Prevention and Good Housekeeping Program Goals

The MS4 Coordinator will maintain an inventory of all municipal owned and operated facilities and conduct at least one of the four inspections a year. The MS4 Coordinator will use the Facility Quarterly Inspection form and maintain tracking of all four quarterly inspections. If deficiencies are found the coordinator plans to conduct follow-up inspections, have follow-up correspondence, and track corrective actions in the checklist.

During an assessment of the facilities, it was deemed necessary that a stormwater pollution prevention plan be developed and kept on-site at the Public Works, Bus Transit, Marina, and MacArthur Golf Course. This was based on the requirement that all facilities found to use, store or discharge pollutants that may degrade water quality have a Stormwater Pollution Prevention Plan (SWPPP). The facility SWPPPs will be updated by April 2023 and reviewed and updated annually thereafter. Quarterly Inspections will be completed and documented and at least one of the four inspections will be conducted by the MS4 Coordinator or a designated individual. Each Department Director will be responsible for incorporating good housekeeping and pollution prevention measures at the facility they manage. The Department Directors will assist in assigning tasks associated with the implementation of the Facility SWPPPs and ensure associated documentation is completed.

8.1.1 Department Collaboration

Department Directors whose roles most directly involve stormwater management for the MS4 will meet quarterly to ensure the SWQMP is being implemented and tasks which are required to be completed by their department and staff are completed and goals are met. This includes the following departments, Stormwater Management, Wastewater Management, Public Works, Transit, Marina, and Parks. Training will be provided annually, but it will be inferred that the information that is provided at the quarterly meetings is dispersed to staff members of each department as deemed appropriate.

Below is a table depicting the municipal owned and operated facilities and correlating information.

Table 8.1.1 Municipal Facilities				
Name	**Address**	**NPDES Permits and Permit Number**	**Ranking of Greatest Potential to Pollute**	**Contact Information**
Public Works	5400 Cline Avenue, East Chicago	NA	1	Department Director (219) 391-8463 and Assistant Department Director (219) 545-1880
Bus Transit	5400 Cline Avenue, East Chicago	NA	2	Department Director (219) 391-8465
MacArthur Golf Course	140th Street and Indianapolis Blvd, East Chicago	NA	4	Department Director (219) 391-8474
Marina (Industrial General Permit Coverage)	3301 Aldis Street, East Chicago	Industrial Stormwater General Permit INRM01279	3	Department Director (219) 391-8482

At the year end, the inspection findings will be compiled in a tracking sheet to show the inspections were complete and all corrective actions have been completed. To share and learn from the process the annual employee training will include scenarios the MS4 Coordinator encountered.

8.1.2 Program to Maintain MS4 Conveyances and Structures

The Public Works Department will work with the Stormwater Department and Wastewater Department maintenance teams to assist in identifying erosion or maintenance needs within the MS4 jurisdictional boundaries. In addition, during inspections of the outfalls, the MS4 Coordinator and stormwater staff will identify when an outfall is requiring maintenance, including cleaning or repairs. The work orders and follow-up corrective action will be kept on file and tracked to document the work completed. The goal of the program is to assess the MS4 annually and conduct the corrective actions needed within a timeframe provided by the stormwater staff and agreed upon by the Collection System Manager for all outfalls.

8.1.3 Weekly Visual Inspection

Monthly visual inspections of the Public Works facility, Golf Course Maintenance Building, Bus Transit area, and solids collection/storage areas, will be conducted to ensure materials and equipment are clean and orderly, and to minimize the potential for pollutant discharge. The inspector must look for evidence of spills and immediately clean them up to prevent contact with precipitation or runoff. The monthly inspections must be tracked in a log for every facility, and records kept with the SWPPP document. The inspection report must also include any identified deficiencies and the corrective actions taken to fix the deficiencies.

8.1.4 Quarterly Inspection

At least once per quarter, a comprehensive inspection of Public Works, Bus Transit, and MacArthur Golf Course facilities, including all stormwater controls will be performed, with specific attention paid to waste storage areas, dumpsters, vehicle and equipment maintenance/fueling areas, material handling areas, and similar potential pollutant-generating areas. The quarterly inspection results will be documented, and records kept within this plan, and provide a copy to the director/supervisor of each department. The inspection report must also include any identified deficiencies and the corrective actions taken to fix the deficiencies.

8.1.5 Materials Management and Sewer and Catch Basin Maintenance

Storm sewer systems need maintenance to ensure that structures within the storm sewer that are meant to reduce pollutants do not become sources of pollution. Regularly maintaining catch basins and cleaning storm sewer pipes prevent the accumulation of pollutants that are later released during rain events as well as blockages, backups, and flooding. Maintenance activities completed regularly and scheduled to address priority areas, is key to a successful pollution prevention program. The highest priority areas will be maintained at the greatest frequency.

There is approximately 380,000 feet of sewer line throughout the City of East Chicago, city limits. The sewers are being maintained, cleaned, and repaired on a regular basis. The cleaning of the sewers is completed in phases, throughout a period of four years. The goal is to clean 25% of the sewer system each year. Waste that is removed from the sewer is dewatered on a concrete pad at the wastewater treatment plant and solids are disposed of via a contracted company and disposed of at a landfill. Records are kept with the Sanitary District Office.

The City of East Chicago currently stores the salt in a salt barn, and storage building. The salt is undercover but during the winter season, when salt is being used for deicing, there is a high likelihood for the building to be damaged during loading activities. During the winter season, the Salt barn will be inspected weekly to ensure damages are documented and corrective action is taken to preserve the salt and reduce the potential for salt to be exposed to the wet weather and discharge to a waterway via stormwater and/or snowmelt runoff. If permanent fixes can't occur immediately, temporary measures will be implemented to address the potential runoff until a permanent fix can be completed.

High priority areas will be swept more frequently, and all streets will be swept at least twice a year. Catch basin inlet maintenance and hood inspection will be conducted twice a year and replaced as needed. Post events the city will sweep the parking lots and conduct litter pickup activities.

The City of East Chicago Public Works Department has a vehicle wash bay, used to wash, and dispose of wash water. The property is scheduled to be surveyed at the beginning of 2023. As part of the survey the wash bay will be investigated, and it will be determined if there is an active line to the sanitary sewer/combined sewer system. During the initial facility assessment by the current MS4 Coordinator and the most recent IDEM audit, it was determined it isn't clear if there is an active sewer connection for the wash water from the wash bay. Currently, there is a low area within the wash bay where water and solids collect. The area is frequently pumped out by the wastewater collection system manager.

If it is determined that the wash bay isn't connected, then a schedule will be implemented to address the needs of the public works department, such as a monthly regular scheduled pumping schedule and a solids removal/disposal schedule, such as weekly maintenance by the Public Works Department staff.

8.1.6 Updating of City GIS Storm Sewer and Infrastructure Drainage

The city's GIS will continue to be updated with new maintenance information and information gathered through the implementation of this plan and compliance with the MS4GP. The communication between departments will assist in accomplishing the transfer of information which will be entered into the GIS.

8.1.7 Annual Employee Training

Municipal employees will be trained annually in stormwater management, good housekeeping, how they can positively impact the overall community in their daily routines, and the potential pollutants associated with municipal operations.

The MS4 has ensured that the Municipal Owned and Operated Facilities have developed the SPCC Plan for facilities with 1,320 gallons storage capacity of petroleum product by December of 2022.

9.0 FEE STRUCTURE AND EXPENDITURES

The city will report the expenditures and fee structure updates within the annual report, as required by the MS4GP 8.1(a)(9).

All properties having impervious area within the city are assigned an equivalent residential unit (ERU), or multiple thereof, with all properties having impervious area assigned at least one ERU.

10.0 NEXT STEPS

Progress will be documented and reported to IDEM annually within the Annual Report. Annual Reports must be submitted within the first quarter (before April 1) and cover the previous calendar year.

Per the MS4GP, the annual report will include modifications to this plan, updates to the measurable goals, progress made towards the status of each MCM and status of ordinance updates or modifications, all new water quality characterization data, stormwater system map, and updates to the receiving waters, including description of progress to meet a TMDL, WLA, or improve water quality in the 303d listed impairments, include a description of implementation problems encountered, new funding sources and expenditures, and updates to the MS4 jurisdictional boundaries.

11.0 REFERENCES

East Chicago 2022 LTCP – updated interim

Indiana Department of Environmental Management and Tetra Tech Inc. "Lake Michigan Shoreline TMDL for *E. coli* Bacteria." April 12, 2004, TMDL. Accessed November 22, 2022. https://www.in.gov/idem/nps/resources/total-maximum-daily-load-reports

United States Census Bureau. "2020 Census Results." 2020 Decennial census. Accessed October 31, 2022. https://www.census.gov/programs-surveys/decennial-census/decade/2020/2020-census-results.html

12.0 TERMS AND ABBREVIATIONS

303d – Listed Impaired Waters

BOD – Biochemical Oxygen Demand

BMP – Best Management Practice

CWA – Clean Water Act or the Federal Water Pollution Control Act

CSGP – Construction Stormwater General Permit

CSO – Combined Sewer Overflow

GIS – Geographic Information System

HHW – Household Hazardous Waste

HOA – Homeowners Association

HUC – Hydraulic Unit Code

IDEM – Indiana Department of Environmental Management

IDDE – Illicit Discharge Detection and Elimination

LID- Low Impact Development

LTCP – Long Term Control Plan

MCM – Minimum Control Measure

MS4 – Municipal Separate Storm Sewer System

MS4GP - Municipal Separate Storm Sewer System General Permit

NPDES – National Pollutant Discharge Elimination System

SOP – Standard Operating Procedure

SWCD – Soil and Water Conservation District

SWPPP – Storm Water Pollution Prevention Plan

SWQMP – Storm Water Quality Management Plan

TMDL – Total Maximum Daily Load

TSS – Total Suspended Solids

USEPA – United States Environmental Protection Agency

303d – The 303 (d) Act requires states to identify impaired waters, where designated uses are not fully supports. Each state established a Total Maximum Daily Loads (TMDLs) for these waters.

Biochemical oxygen demand (BOD) – A measurement of the oxygen required for the biochemical degradation of organic material and the oxygen used to oxidize inorganic materials such as sulfides and ferrous iron.

Best Management Practices – Any structural or nonstructural control measure utilized to improve the quality and, as appropriate, reduce the quantity of stormwater runoff either through physical structures and practices or through non-structural management practices and education. The term includes schedules of activities, prohibitions of practice, inspection and treatment requirements, operation and maintenance procedures, policies, and other management practices.

Category 5 – Water that is impaired or threatened by pollutant(s) for one or more designated sues and required a TMDL.

Catch Basin – A chamber built for the entry of surface water to a storm sewer or drain, having at its base a sediment sump designed to retain grit and detritus below the point of overflow.

Clean Water Act – Legislation that establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulatory quality standards for surface waters. The Clean Water Act establishes the statutory basis for the NPDES permit program and the basic structure for regulating the discharge of pollutants from point sources and specifically requires the EPA to develop and implement the NPDES program.

Combined Sewer Overflow – When a combined sewer system becomes overwhelmed by excess stormwater and overflows into nearly streams and rivers.

Construction Activity – A disturbance to the land that results in a change in topography, existing soil vegetative and non-vegetative coverage, or existing soil makeup that may result in accelerated stormwater runoff leading to soil erosion and movement of sediment into surface waters or drainage systems.

Conveyance – Any structural method for transferring stormwater between points.

Culvert – A closed conduit used for the conveyance of surface drainage water under a roadway, driveway, or other impediment.

Discharge – Usually the rate of water flow measuring the volume of water passing a point per unit of time commonly expressed as cubic feet per second, gallons per minute, or millions of gallons per day.

Dissolved oxygen – The amount of oxygen dissolved in water. Generally, proportionately higher amounts of oxygen can be dissolved in colder waters than in warmer waters.

Ditch – A man-made, open drainage way into which excess surface water or groundwater drained from land, stormwater runoff, or floodwaters flow either continuously or intermittently.

Drain – A buried perforated or slotted pipe or other conduit (subsurface drain) or ditch (open drain) for carrying off surplus groundwater or surface water.

Drainage – The removal of excess surface water or groundwater from land by means of ditches or subsurface drains.

Dry Weather Screening – The in-field process undertaken only during periods of dry weather to fix the geospatial location of outfalls, record basic characteristics of the outfalls, and screen for illicit discharges and their relative severity

Erosion – The wearing away of the land surface by water, wind, gravity, or other geological agents. The following terms are used to describe different types of water erosion:

Household Hazardous Waste – Waste generated by households that is ignitable, toxic, reactive, corrosive, or otherwise poses a threat to human health or the environment.

Hydrologic Unit Code (HUC) – A unique numeric code assigned to each water basin in the United States by the U.S. Geological Survey. Each HUC is made up of a series of smaller two-digit codes describing levels within a watershed from region to sub watershed based on size and geographic location. From left to right each two-digit code represents a subdivision of the code before it.

Illicit Discharge – Any discharge to a municipal separate storm system that is not entirely composed of stormwater except for NPDES authorized exceptions.

Infiltration – The passage or movement of water into the soil.

Inorganic – Any compound not containing carbon.

Low Impact Development -A means of land planning and engineering design approach to manage stormwater runoff as part of green infrastructure.

Long Term Control Plan - is used to identify the appropriate CSO controls necessary to achieve waterbody-specific water quality standards consistent with the goals of the CWA.

Maximum Extent Practicable (MEP) – A statutory standard that establishes the level of pollutant reductions that an MS4 must achieve. The standards allow flexibility in application to allow for unique local hydrologic and geologic concerns that may exist.

Minimum Control Measure (MCM) – Minimum measures required by the NPDES program related to public education and involvement, illicit discharges, construction and post-construction site runoff control, and pollution prevention through good housekeeping practices.

Municipal Separate Storm Sewer System (MS4) – Any conveyance or system of conveyances including streets, ditches, and pipes that is: 1) owned by a municipality; 2) designed or used for collecting or conveying stormwater; 3) not a combined sewer (i.e., not intended for both sewage and stormwater); AND 4) not part of a Publicly Owned Treatment Works.

NPDES Permit – A permit developed by the U.S. EPA through the Clean Water Act administered in Indiana by IDEM. This permit covers aspects of municipal stormwater quality.

Outfall – the point source where a municipal separate storm system discharges to a receiving water or where stormwater discharge permanently leaves the boundaries of an MS4. It does not include open conveyances connecting separate storm sewers, pipes, tunnels, or other conveyances that connect segments of the same stream or other surface waters.

Outlet – The point of water disposal from a stream, river, lake, or artificial drain.

Pipe – A closed manmade conveyance device used to transport stormwater between points. This does not include foundation drainpipes, irrigation pipes, land drain tile pipes, culverts, and road sub-grade drainpipes.

Pollutant of concern – any pollutant that has been documented via analytical data as a cause of impairment in any waterbody, or to another MS4, to which the MS4 discharges.

Private drain – a drainage system that (a) is located on land owned by one person or by two or more persons jointly; and was not established under or made subject to any drainage statute.

Qualified professional – an individual who is trained and experience din stormwater treatment techniques and related fields as may be demonstrated by state registration, professional certification, or completion of annual training that enable the individual to make sound, professional judgements regarding stormwater control or treatment and monitoring, pollutant fate and transport, and drainage planning.

Receiving Stream – means a waterbody that receives a discharge from an outfall. The term does not include private drains, retention and detention basins, or constructed wetlands used as treatment.

Redevelopment – alterations of a property that change a site or building in such a way that there is disturbance of one (1) acre of more of land. The term does not include such activities as exterior remodeling.

Representative outfall – a specific location that is representative of multiple outfalls that share similar characteristics taking into consideration the types of pollutants and or similar land uses.

Residential car wash – washing a vehicle or vehicles at a place of residence for non-commercial purposes only.

Retail gasoline outlets – an operating gasoline or diesel fueling facility whose primary function is the resale of fuels.

Sediment – material of soil and rock orgin, transported, carried or deposited by water.

Sensitive area – a waterbody identified as needing priority protection or remediation based on: a)having threatened or endangered species or their habitat; b) usage as a public surface water supply intake; c) usage for full body contact recreation, such as bathing beaches; d) exceptional use classification as found in 327 IAC 2-1-11(b), outstanding state resource water classification as found in 327 IAC 2-1-2(3) and 327 IAC 2-1.5-19(b).

Significant contributor of pollutants – MS4 entity or industrial facility that contributes pollutants into a MS4 conveyance in such a quantity or quality and to such a degree that it impacts the receiving MS4 operator's ability to comply with applicable state or federal law.

Siphon – a closed conduit or portion of which lies above the hydraulic grade line, resulting in a pressure less than atmospheric and requiring a vacuum within the conduit to start flow. A siphon utilizes atmospheric pressure to effect of increase the flow of water through a conduit. An inverted siphon is used to carry stormwater flow under an obstruction such as sanitary sewer.

Soil Group, Hydrologic – classification of soils by the Soil Conservation Service into four runoff categories. The groups range from A soils, which are very permeable to produce little runoff, to D soils, which are not very permeable and produce much more runoff.

Spillway – a waterway in or about a hydraulic structure, for the escape of excess water.

Spill – the unexpected, unintended, abnormal, or unapproved dumping, leakage, drainage, seepage, discharge, or other loss of petroleum, hazardous substances, extremely hazardous substances, or objectionable substances. The term does not include releases to impervious surfaces when the substance does not migrate off the surface or penetrate the surface and enter the soil.

Storage duration – the length of time that water may be stored in any storm water control facility, computed from the time water first begins to be stored.

Stormwater – the total amount of precipitation reaching the ground surface.

Stormwater pollution prevention plan – a site specific, written document that (1) identifies all of the activities and conditions at a site or facility that could result in water pollution, and (2) details the steps the entity will take to prevent the discharge of any unpermitted pollutant.

Stormwater Quality Management Plan – a comprehensive written document that outlines the activities that will be implemented and administered by a MS4 entity to address stormwater runoff to improve water quality.

Stream Reach Characterization and evaluation report or SRCER – a written report that characterizes and evaluates the pollutant sources on receiving water from a combined sewer system discharge.

Stormwater Runoff – the water derived from rains falling within a tributary basin, flowing over the surface of the ground or collected in channels, ditches, streams, culverts, streets, and pumping stations.

Storm Sewer – a closed conduit for conveying collected stormwater.

Structural stormwater management measures – measures designed with the purpose of stormwater quality, stormwater management, and flood control.

Tributary – any watercourse that flows into a larger watercourse.

Total maximum daily load (TMDL) – the sum of the daily individual waste load allocations for point sources and load allocations for nonpoint sources and natural background minus the sum of a specified margin of safety and any capacity reserved for growth. A TMDL sets and allocates the maximum daily amount of a pollutant that may be introduced into a waterbody and still assures attainment and maintenance of water quality standards.

Undiluted Discharges – a discharge that has not been mixed with that of another source such as another septic tank.

Urbanized area – one or more places and the adjacent densely settled surrounding territory that together have a minimum population of at least fifty thousand and an overall population density of at leave five hundred people per square mile.

Vegetative practices – utilizes various forms of vegetation to enhance pollutant removal, maintain and improve natural site hydrology, promote healthier habitats, and increase aesthetic appeal.

Waste load allocation – the portion of a receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution. Waste load allocations constitute a type of water quality-based effluent limitation.

Watershed – a geographic area from which water drains to a specific concentration point at the furthest downstream (lowest elevation) point.

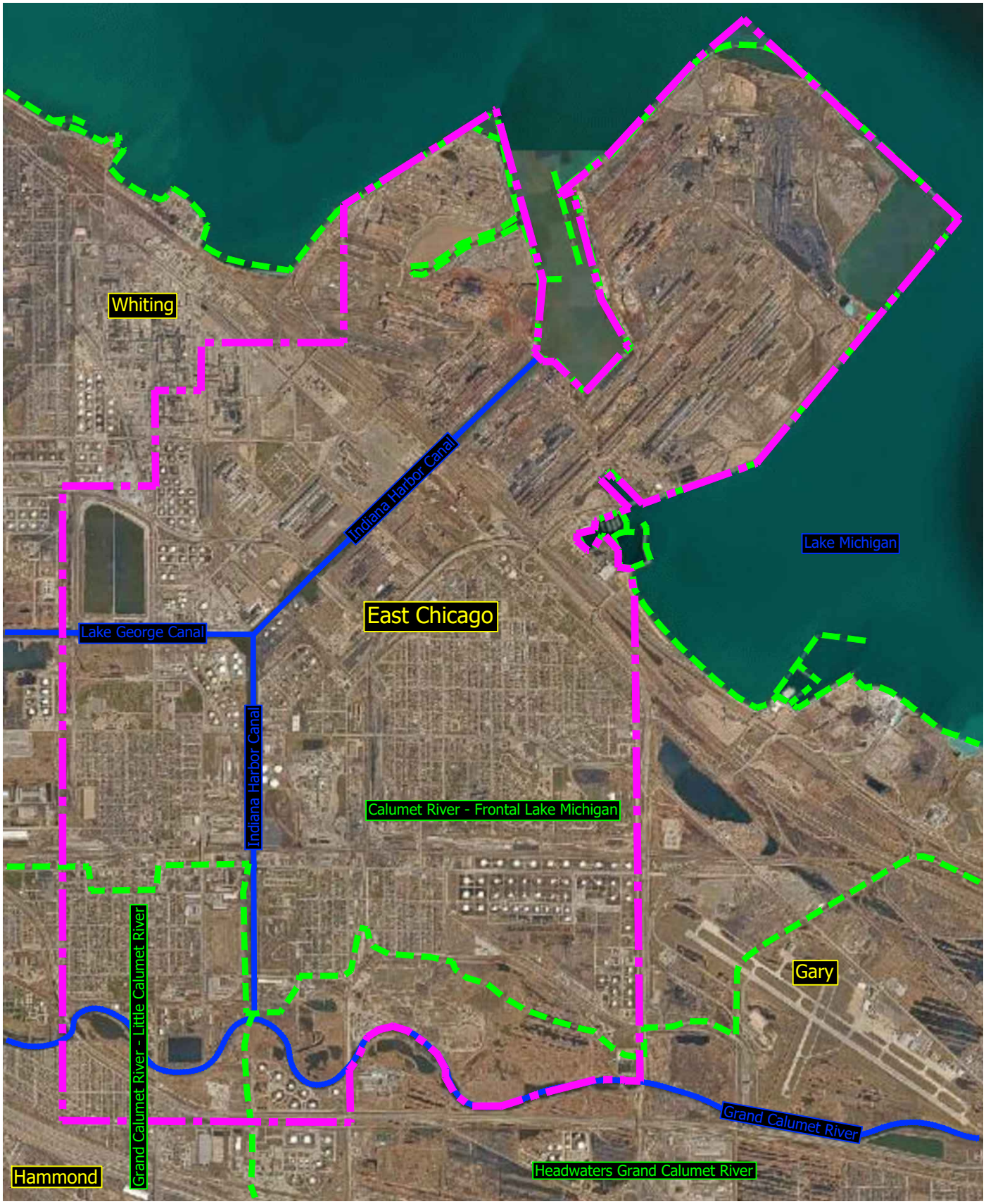
Wet bottom retention basin – a basin designed to retain a permanent pool of water after having provided its planned temporary detention of runoff during a storm event.

APPENDIX A
EXHIBITS

EXHIBIT 1

MS4

BOUNDARY



LEGEND

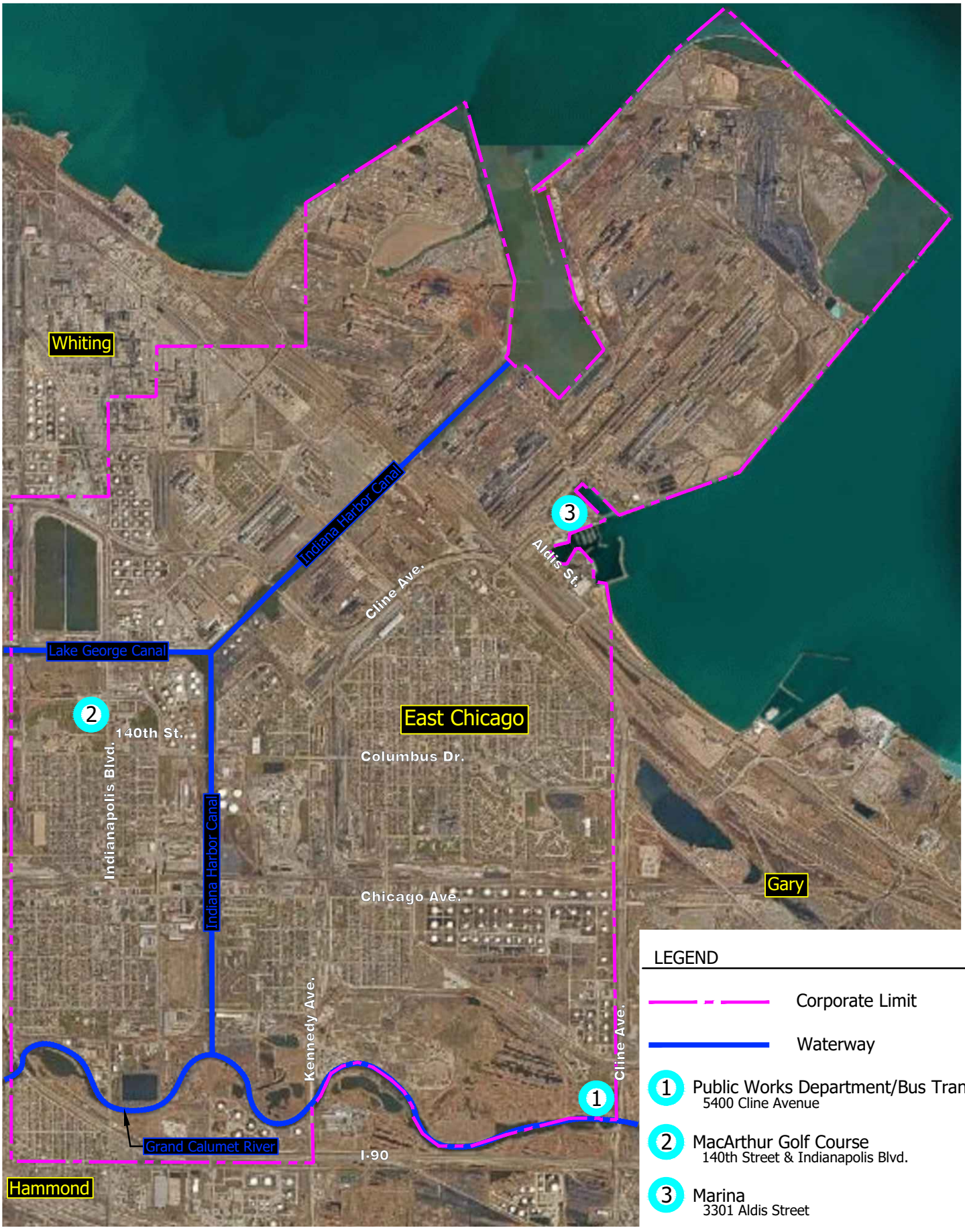
Corporate Limit — Watershed Boundary — Waterway

BF&S CIVIL ENGINEERS	DRAWN: RH CHECKED: MB DATE: 1/16/2023	CORPORATE LIMIT EXHIBIT 1 EAST CHICAGO INDIANA	HORIZONTAL SCALE: N/A VERTICAL SCALE: N/A SHEET: 1 OF 1 PROJECT BFS NO. 690200.0000

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EXHIBIT 2

INVENTORY OF OWNED AND OPERATED FACILITIES AND STORMWATER MANAGEMENT MEASURES



LEGEND

- Corporate Limit
- Waterway
- 1 Public Works Department/Bus Transit
  5400 Cline Avenue
- 2 MacArthur Golf Course
  140th Street & Indianapolis Blvd.
- 3 Marina
  3301 Aldis Street

BF&S CIVIL ENGINEERS

DRAWN: RH
CHECKED: MB
DATE: 1/16/2023

OWNED/OPERATED STORMWATER MANAGEMENT MEASURES
EXHIBIT 2

EAST CHICAGO
INDIANA

HORIZONTAL SCALE: N/A
VERTICAL SCALE: N/A
SHEET: 1 OF 1
PROJECT
BFS NO. 690200.0000

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EXHIBIT 3-6
MS4 CONVEYANCES



LEGEND

Corporate Limit

Impaired Waters

Outfall

BF&S CIVIL ENGINEERS	DRAWN: RH CHECKED: MB DATE: 1/16/2023	MS4 CONVEYANCES EXHIBIT 3 EAST CHICAGO INDIANA	HORIZONTAL SCALE: N/A VERTICAL SCALE: N/A SHEET: 1 OF 1 PROJECT BFS NO. 690200.0000

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LEGEND

- Corporate Limit
- Impaired Waters
- Outfall

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DATE: 1/16/2023

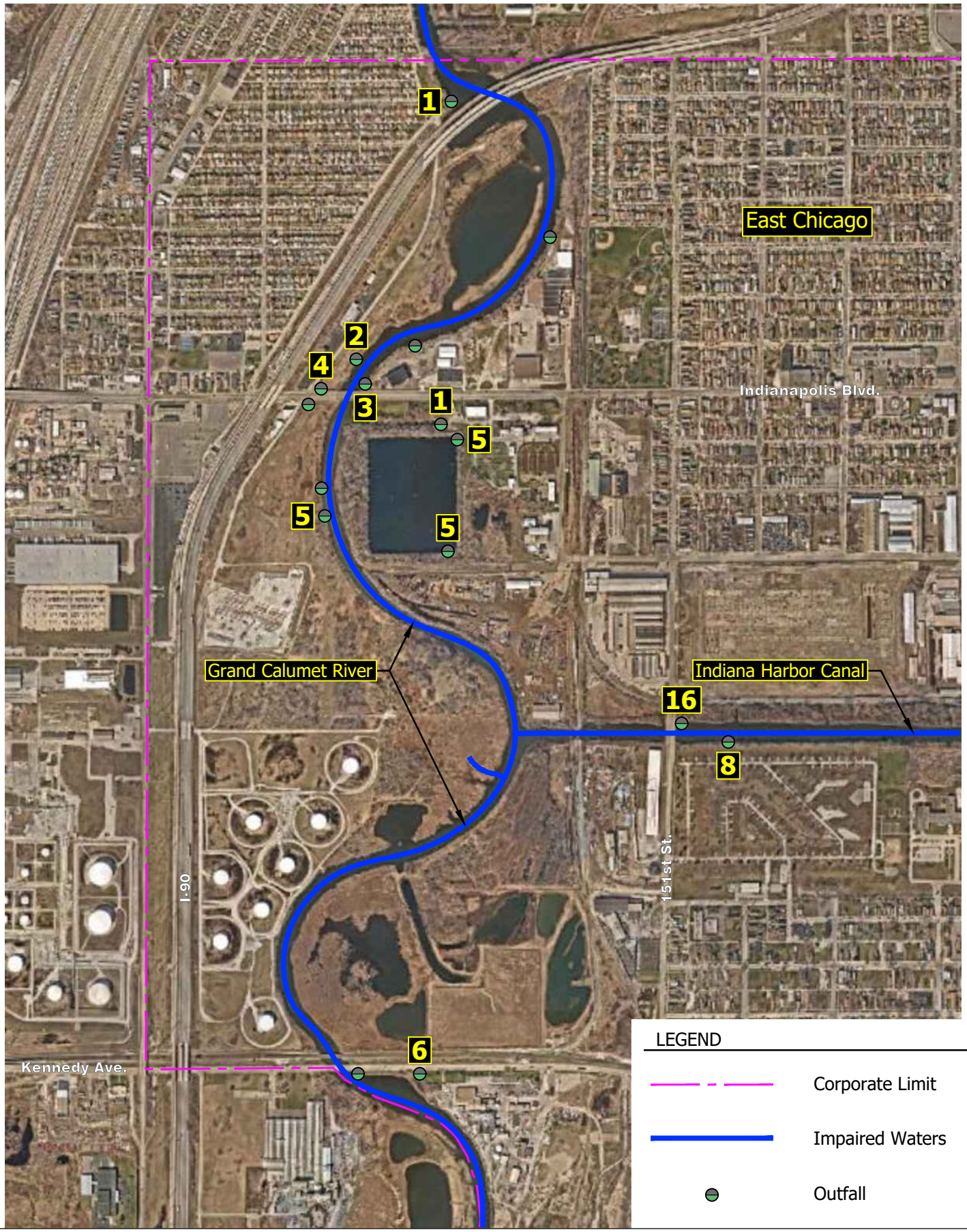
MS4 CONVEYANCES
EXHIBIT 4

EAST CHICAGO
INDIANA

HORIZONTAL SCALE
N/A
VERTICAL SCALE
N/A
SHEET
1 OF 1
PROJECT

BFS NO. 690200.0000

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DRAWN: RH
CHECKED: MB
DATE: 1/16/2023

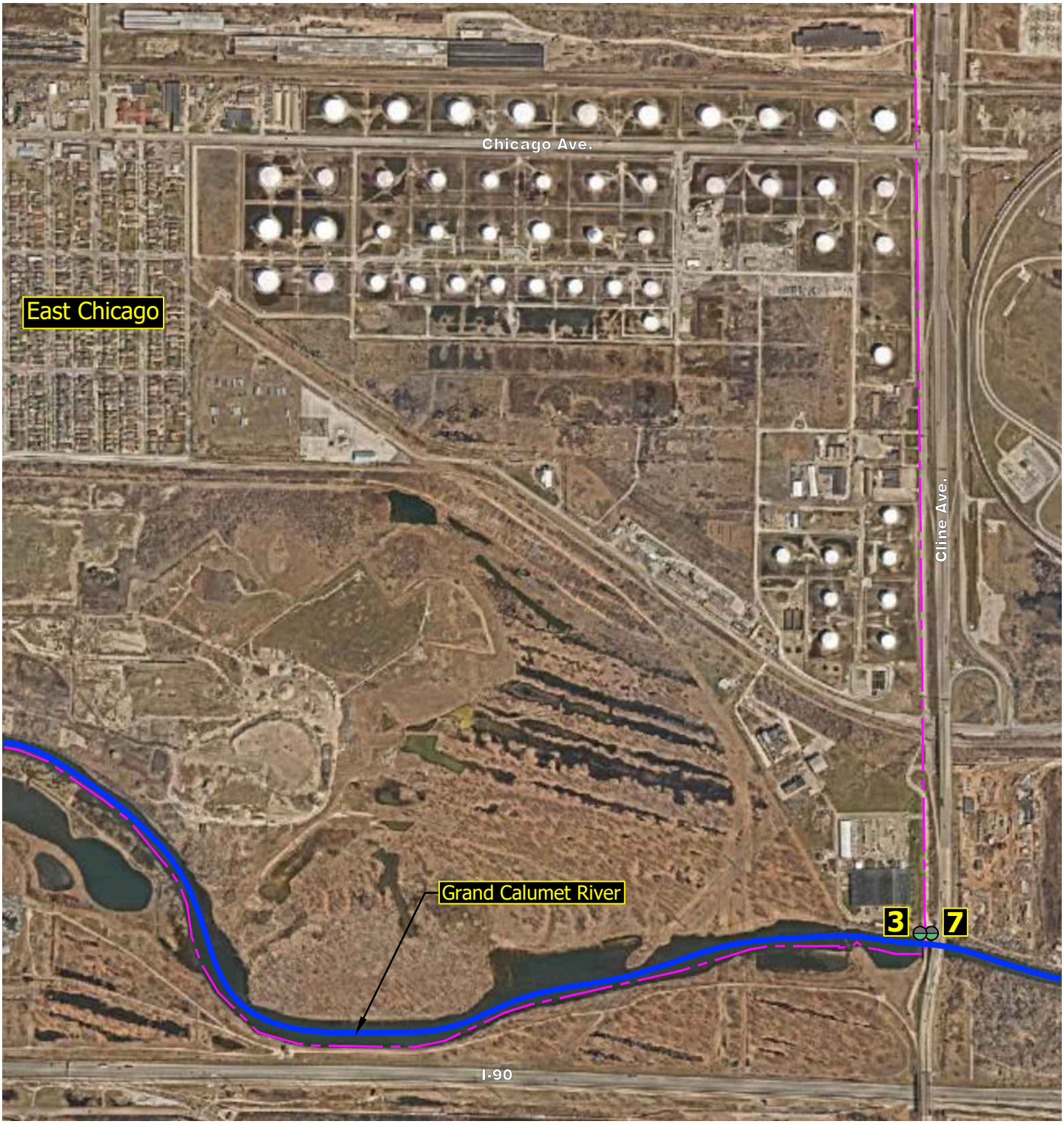
MS4 CONVEYANCES
EXHIBIT 5

EAST CHICAGO
INDIANA

HORIZONTAL SCALE
N/A
VERTICAL SCALE
N/A
SHEET
1 OF 1
PROJECT

BFS NO. 690200.0000

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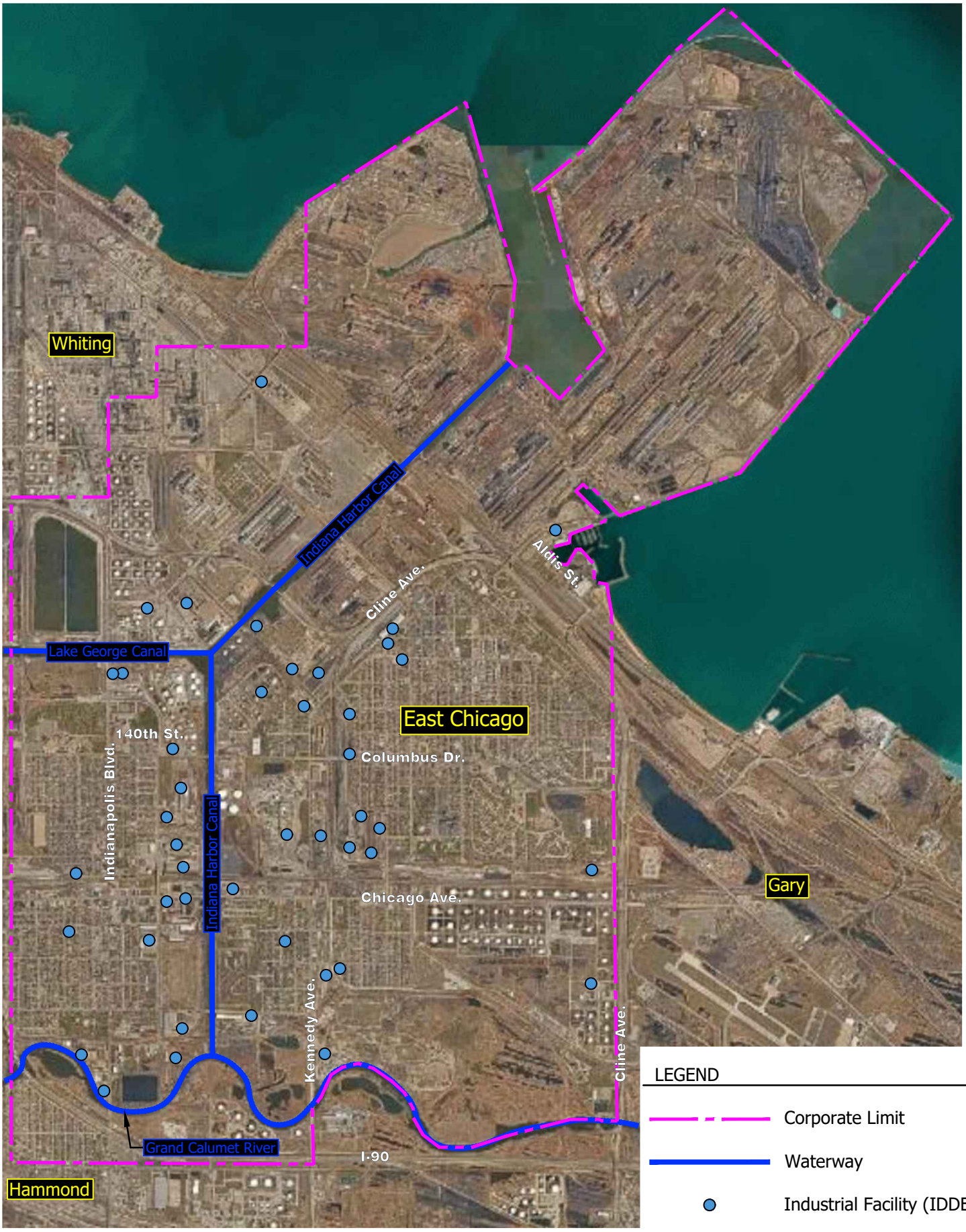
LEGEND

- Corporate Limit
- Impaired Waters
- Outfall

BF&S CIVIL ENGINEERS	DRAWN: RH CHECKED: MB DATE: 1/16/2023	MS4 CONVEYANCES EXHIBIT 6 EAST CHICAGO INDIANA	HORIZONTAL SCALE: N/A VERTICAL SCALE: N/A SHEET: 1 OF 1 PROJECT BFS NO. 690200.0000

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EXHIBIT 7
MAP OF INDUSTRIAL FACILITIES



BF&S CIVIL ENGINEERS

DRAWN: RH
CHECKED: MB
DATE: 1/16/2023

INDUSTRIAL FACILITIES
EXHIBIT 7

EAST CHICAGO
INDIANA

HORIZONTAL SCALE
N/A
VERTICAL SCALE
N/A
SHEET
1 OF 1
PROJECT

BFS NO. 690200.0000

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APPENDIX B
INSPECTION FORMS

City of East Chicago
Storm Water Construction Inspection Report

General Information			
Project Name:			
NPDES Tracking No.		Location:	
Date of Inspection:		Start/End Time:	
Inspector's Name(s):	James Averett		
Inspector's Title:	Field Inspector		
Inspector's Contact Info:	219-391-8466		
Describe the present phase of the construction.			

Type of Inspection:

☐ Regular ☐ Pre-Storm Event ☐ During Storm Event ☐ Post-Storm Event

Weather Information

Has it rained since the last inspection?

☐ Yes ☐ No

If yes provide :

Storm Start Date & Time: Storm Duration (hrs): Approximate Rainfall (in):

Weather at time of inspection:

Do you suspect discharges may have occurred since the last inspection?

☐ Yes ☐ No

Are there any discharges at the time of inspection?

☐ Yes ☐ No

Municipal Owned and Operated Facility Quarterly Inspection Form

NPDES MS4 General Permit

Instructions: Use this form to document the quarterly inspections required in the Indiana Department of Environmental Management (IDEM) MS4 General Permit. Conduct inspections once quarterly for a total of 4 inspections per year. At least one of the quarterly inspections must be completed by the MS4 Coordinator or designated individual.

CHECK THE APPROPRIATE QUARTER: ☐ **Q1** ☐ **Q2** ☐ **Q3** ☐ **Q4**

MS4 FACILITY INFORMATION

Facility name: _____

MS4 Coordinator name: _____

Facility address: _____

City: _____ State: _____ Zip code: _____

INSPECTION INFORMATION

Inspector name: _____ Date and time: _____

Weather: _____

1. Inspector has been trained to do inspections: ☐ Yes (required)

FACILITY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REVIEW

1. Is the SWPPP located on-site? ☐ Yes ☐ No
2. Date of last SWPPP review: _____
3. Does the SWPPP include an up-to-date facility exhibit depicting the following:
   a. ☐ Yes ☐ No Stormwater best management measures
   b. ☐ Yes ☐ No Stormwater conveyances, surface flow, and outfalls
   c. ☐ Yes ☐ No Receiving waters
   d. ☐ Yes ☐ No Material storage, chemical storage, building labels and other site-specific hot spots

   If you answered No to any of the items listed in 3. above, then make corrections to the facility SWPPP and ensure the SWPPP is updated at least annually.
4. Based on this inspection, enter the date the updates to the SWPPP were completed: _____

GOOD HOUSEKEEPING

1. If there are stormwater structures located on-site, are the maintenance logs for the structural controls kept on-site or accessible? ☐ Yes ☐ No ☐ NA
2. Are maintenance needs being reported within the maintenance logs? ☐ Yes ☐ No
3. Are corrective actions and completion dates documented? ☐ Yes ☐ No

   If you answered No to 1. through 3. above, take steps to include the required documentation.
4. Is the area organized and clutter free? ☐ Yes ☐ No
5. Is the parking lot, or areas where debris and waste materials may accumulate, regularly maintained? ☐ Yes ☐ No
6. Are storm drains labeled (such as Drains to Waterbody), identifying the location to where the drain outlets? ☐ Yes ☐ No
7. Is washing with detergents conducted on-site? ☐ Yes ☐ No
8. If yes, are wash waters contained and disposed of via a sanitary sewer or pumped and hauled to a wastewater treatment facility? ☐ Yes ☐ No

9. Are ***all*** chemicals properly labeled? ☐ Yes ☐ No
10. Are spill kits sufficient? This includes having all spill kits with signage identifying their location, stocked to address the potential spill with enough spill response equipment, and stocked with the correct items to address the potential spill? ☐ Yes ☐ No
11. If applicable, is proper disposal of animal waste from dog parks occurring? ☐ Yes ☐ No ☐ NA
12. If applicable, have proper snow disposal areas been identified? ☐ Yes ☐ No ☐ NA
13. Is secondary containment properly managed, ie. valves closed, collected water properly disposed of, etc? ☐ Yes ☐ No
14. If you answered No to 4 through 13, then make corrections to the facility SWPPP and ensure the SWPPP is updated at least annually.
    Corrective action completed date: _____

OUTFALL & RUNOFF INSPECTION

Visually inspect the runoff for evidence of pollutants. For example, the runoff may have an rainbow sheen or milky, muddy, etc.

1. Are outfalls free of debris, staining, and erosion? ☐ Yes ☐ No
2. Is this inspection being conducted during a rain event? ☐ Yes ☐ No
3. If yes, describe the runoff (color, transparency, amount, etc.):
   If evidence of pollutant is observed, or erosion is noted at the outfall or within the conveyances, describe the corrective action taken to address the erosion and/or pollutants observed, and document the completion date:

   Describe Findings: **Actions Needed:**

   _____ _____

   _____ _____

   Corrective action completed date: _____

MANAGEMENT OF WASTE & RECYCLING

1. Are dumpsters in good condition (no leaks, fitted with lid, no visible holes, no uncontained solid waste)? ☐ Yes ☐ No

   Describe Findings: **Actions Needed:**

   _____ _____

   _____ _____

   Corrective action completed date: _____
2. Is solid waste properly stored, labeled, and removed? ☐ Yes ☐ No

   Describe Findings: **Actions Needed:**

   _____ _____

   _____ _____

   Corrective action completed date: _____
3. Does the facility generate hazardous waste? If so, ensure it is in accordance with the Hazardous Waste Regulations, including but not limited to being properly stored, labeled, and disposed of? ☐ Yes ☐ No

   Describe Findings: **Actions Needed:**

   _____ _____

   _____ _____

   Corrective action completed date: _____

4. Are there storm drains located near waste storage, or other avenues of direct discharge of a potential pollutant? If yes, determine if there is adequate spill response measures in place, and/or a need for further structural controls or modifications to the operation to reduce or eliminate the potential risk: ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

OUTDOOR MATERIAL LOADING & STORAGE

1. Are all materials that are potential stormwater contaminants stored under cover or in secondary containment, as required? If not, inspect the area for releases. ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

2. Are all storage containers properly labeled as recommended? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

3. Are pesticides being used or stored on-site? If so, ensure the proper licensing is obtained and documentation of the pesticide applicators license has been verified and available upon request. ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

4. Are containers, storage totes, and bulk bags inspected for tears and/or spillage? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

5. STOCKPILES: Are outdoor stockpiles of materials stored, staged, and maintained in a way to prevent pollutants from entering waterbodies, leaving the site, or leaching into the soil? If stockpiling any erodible material, ensure additional stormwater controls are in place to manage the materials and prevent loss of material or materials from entering a waterbody.

☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

6. SALT/SAND: Document the usage of the salt and other deicing agents stored on-site. Ensure all materials are labeled and stored under cover; minimize run-off and run-on. Are there signs the deicing agents are not being stored properly, such as staining, corrosion, etc? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

7. Are piles managed to address tracking and spillage? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____
8. Are spill kits visible and easy to access? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____

VEHICLE MAINTENANCE

1. Is there designated vehicle maintenance area at the facility? (If "No" skip to Fueling Areas) ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____
2. Have vehicle maintenance practices been implemented? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____
3. Do inside drains go to stormwater conveyance? Are separators in place? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____
4. Do vehicle washout areas go to storm drains? Are separators in place? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____
5. Is used oil labeled with the words "Used Oil"? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____
6. Is written documentation kept of vehicle maintenance, spills, and clean up? ☐ Yes ☐ No
   Describe Findings: **Actions Needed:**
   _____ _____
   _____ _____
   Corrective action completed date: _____

7. Are spill kits located within the vehicle maintenance area? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

FUELING AREAS

1. Are there any fueling areas located at this facility? ☐ Yes ☐ No
2. Have all employees who use the fueling area been properly trained? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

3. Are storm drains located near the fueling area? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

4. Are there spill kits available near the fueling area? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

5. Are fuel spills documented? ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

6. Do the fuel tanks/bulk liquid storage tanks have a level indicator to assist during filling activities? If not, ensure steps are taken to address overflow during the filling procedures. ☐ Yes ☐ No

Describe Findings: **Actions Needed:**

_____ _____

_____ _____

Corrective action completed date: _____

COMPLIANCE CERTIFICATION STATEMENT

Based on the results of this inspection the facility is operating in compliance with the general permit and the SWPPP:

☐ Yes ☐ No, explain: _____

APPENDIX C
DOCUMENTATION TRACKING

APPENDIX D
EMPLOYEE TRAINING LOG

City of East Chicago MS4

Permit # INR040087

TRAINING ATTENDANCE SHEET

Name of Training: _____

Department: _____

Conducted by: _____

Date: _____

NAME	TITLE

APPENDIX E
SUPPLEMENTAL MATERIALS