Ongoing Screening Summary Report 2010 Inspection Year

Illicit Discharge Detection and Elimination Program

City of Oshkosh

March 28, 2011

OMNNI Project No. N2029B10

ENGINEERING • ARCHITECTURE • ENVIRONMENTAL



Illicit Discharge Detection and Elimination Conducted For City of Oshkosh

Ongoing Screening Summary Report

2010 Inspection year

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EXECUTIVE SUMMARY

During the summer of 2010, OMNNI Associates, Inc. (OMNNI) assisted the City of Oshkosh with inspecting outfalls of the City's municipal separate storm sewer system (MS4) for potential illicit discharges. Following the Illicit Discharge Ongoing Inspection Program that was developed in 2009, OMNNI inspected 93 of the approximately 348 MS4 outfalls identified in the City. The inspections consisted of a visual screening along with a chemical analysis of any dry-weather flow that was present. The inspections revealed 26 outfalls with evidence of potential illicit discharges, mostly upstream manholes with significant floatable debris. The Ongoing Screening Program calls for approximately 90 outfalls to be inspected in 2011, 82 outfalls to be inspected in 2012, and 86 outfalls to be inspected in 2013 before repeating the inspection cycle.

BACKGROUND

Purpose

Under Section 2.3.3 of the Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No. WI-S050075-1 ("permit"), the City of Oshkosh is required to conduct ongoing dry weather field screening of all outfalls during the term of the permit to detect potential illicit discharges.

Under the MS4 permit, an outfall is defined as "the point at which storm water is discharged to waters of the state or leaves one municipality and enters another." The MS4 is defined as a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, constructed channels or storm drains, which meets all of the following criteria:

- 1. Owned or operated by a municipality.
- 2. Designed or used for collecting or conveying storm water.
- 3. Which is not a combined sewer conveying both sanitary and storm water.

When applied to the City of Oshkosh, the MS4 permit requires ongoing screening of the road ditch or storm sewer outfalls where the outfalls discharge to a water of the state (i.e., a navigable or non-navigable stream, lake, or wetland) or where they discharge into an adjacent municipality or county or state right-of-way.

OMNNI assisted the City of Oshkosh with developing a four-year ongoing screening program in 2009, and completed the ongoing screening program for the first set of outfalls in 2010. The results of this first year of ongoing field screening are summarized in this report. The City should include these results in the annual report required by the MS4 permit due March 31, 2011.

Outfall Identification and Mapping

In 2009, the City of Oshkosh identified major and minor outfalls within the city as part of the MS4 mapping process required by the permit. Outfalls were identified at the locations where the City's MS4 discharged to a water of the state, to an adjacent municipality, or outside the permitted area. Approximately 348 potential outfalls were identified during this process in 2009.

Topographic information was also used to define approximate drainage basins for each outfall. Based on this information, each outfall was classified as "major" or "minor." A "major outfall," as defined by the MS4 permit, is an MS4 outfall that meets one of the following criteria:

- 1. A single pipe with an inside diameter of 36 inches or more or equivalent conveyance (cross sectional area of 1,018 square inches) which is associated with a drainage area of more than 50 acres.
- A single pipe with an inside diameter of 12 inches or more or equivalent conveyance (cross sectional area of 113 square inches) which receives storm water runoff from land zoned for industrial activity with 2 or more acres of industrial activity, but not land zoned for industrial activity that does not have any industrial activity present.

Outfalls not meeting the definition of a major outfall are considered "minor outfalls."

When necessary, field verification was used to determine outfall sizes or drainage patterns. The current outfall map includes 108 major outfalls and 240 minor outfalls. A map showing the MS4 outfalls is included in Appendix A.

Initial Screening Program

Per Section 2.3.2 of the MS4 general permit, the City was required to conduct an initial field screening at all major outfalls during dry weather periods. This initial field screening was required to be conducted within 36 months of the date that the permit was issued. The minor outfalls are included in the ongoing field screening to be conducted in future years.

OMNNI conducted the initial field screening for the City of Oshkosh during the summer of 2009. During the initial field screening, 109 major outfalls throughout the City were inspected. The initial field screening revealed 24 major outfalls that showed evidence of a potential illicit discharge. The results of the initial field screening were presented to the City in the CITY OF OSHKOSH INITIAL SCREENING SUMMARY REPORT (May 18, 2010).

Development of Ongoing Screening Program

Section 2.3.3 of the MS4 permit requires municipalities to develop an ongoing screening program and submit it to the WDNR within 36 months of the date that the permit was issued. Based on verbal guidance from the WDNR, the ongoing screening program should include provisions to inspect all outfalls (major and minor) at least once during the 5-year permit cycle. In developing the program, consideration was given to the hydrological conditions, total drainage area, population density, traffic density, age of the structures or buildings in the area, history of the area, and land use types.

Based on the MS4 permit requirements and other information obtained from WDNR, OMNNI developed a proposed ongoing screening program for the City of Oshkosh. The permitted area was divided into four inspection districts, each with approximately the same number of outfalls. One district would be inspected each year, resulting in a four-year inspection cycle. At the end of the first inspection cycle, the inspection results will be evaluated to determine if the inspection cycle for each outfall should be adjusted.

The proposed ongoing screening program was presented to the City in the CITY OF OSHKOSH IDDE ONGOING FIELD SCREENING PROGRAM (May 19, 2010). OMNNI inspected the outfalls in the 2010 inspection district during the summer 2010, and the results are included in this report. The 2010 inspection district is shown in more detail in Appendix B.

Screening Methodology

OMNNI's outfall screening methodology loosely follows the procedures outlined in ILLICIT DISCHARGE DETECTION AND ELIMINATION: A GUIDANCE MANUAL FOR PROGRAM DEVELOPMENT AND TECHNICAL ASSESSMENTS (Center for Watershed Protection / Robert Pitt, October 2004). The procedures were modified to comply with the MS4 permit requirements, and have evolved after several years of experience.

Outfalls that have been previously inspected are located with the assistance of GPS. For outfalls that have not been previously inspected, the available MS4 mapping is used to physically locate the outfall, and then the GPS location is recorded to assist with future inspections. The physical properties of the outfall are then recorded – type of outfall, dimensions, material, and discharge location. A photograph of the outfall is taken to show the general location and configuration.

After the physical properties have been recorded, the outfall and surrounding area are screened for indicators of current or past illicit discharges. Sample indicator parameters include floatable material, odors, stains, color of water, turbidity, abnormal vegetation and benthic growth. If any of these physical indicators are observed, they are further described and quantified. A close-up photograph is taken of the actual discharge of the outfall, showing any indicator parameters or flow from the outfall.

The MS4 permit specifies that the outfalls be screened during periods of dry weather. OMNNI generally waits for a minimum of 72 hours following a runoff-producing rainfall event to conduct the outfall screening. This allows sufficient time for the stormwater to discharge through the drainage area and outfall. If, after 72 hours, the outfall still has flow, a sample is collected and screened for chemical indicators of an illicit discharge. While the actual list of chemical parameters is specific to each outfall, most flowing outfalls are screened for the following parameters:

- Temperature
- Hq
- Chlorine (total chlorine and free chlorine)
- Copper
- Ammonia
- Detergents
- Phenols (for outfalls in basins with industrial sources)

The list of chemical parameters was developed using the parameters that were required for the initial field screening in the MS4 permit, and supplemented with additional parameters that are useful for tracking illicit discharges.

In some cases, outfalls can be either partially or fully submerged. A partially submerged outfall is an outfall where the elevation of the invert is below the water level of the receiving water. A

fully submerged outfall is a pipe that is entirely below the water surface. In either condition, the water is "backed up" into the discharging pipe or channel, and is not free-flowing. If a sample is collected at the outfall point, the sample could consist almost entirely of the receiving water.

In the case of partially or fully submerged outfalls, OMNNI developed a sampling procedure that was approved by WDNR. If it can be located and accessed, the submerged outfall is screened for physical indicators. However, the flow sample is collected from the first access point (i.e., manhole, catchbasin, curb inlet) upstream of the outfall. This reduces the impact of the receiving water. In the event that there is no water – flowing or pooled – at the upstream location, then no sample is collected. For all upstream sampling, a note is made of the distance and land use of the area between the outfall and the upstream area to assess the potential for illicit connections between the outfall and the upstream location.

In the event that the physical or chemical indicators show that there is a potential ongoing illicit discharge, the Illicit Discharge Coordinator of the municipality is contacted. OMNNI then assists the municipality with attempting to identify the source of the discharge, usually by inspecting and/or sampling additional upstream points to attempt to isolate a particular branch of the MS4 network.

While not explicitly required by the MS4 permit, OMNNI also conducts a physical condition assessment for each outfall. The inspector identifies any graffiti, damage, erosion or deposition present at the outfall and assigns a severity. This information is provided to the municipality to assist with maintenance activities.

A detailed outfall report is generated for each outfall that is inspected. The outfall report includes the general outfall information that was collected, along with detailed inspection results for each inspection conducted at the outfall. This provides a comprehensive history of the inspection results for the outfall as multiple inspections are performed over the life of the outfall.

GENERAL OBSERVATIONS

Detailed inspection reports for each outfall are included in Appendix C. Some general observations from the field screening are noted below.

Weather

2010 set a new record for the wettest summer in Wisconsin. The significant amount of rainfall during the summer of 2010 complicated the outfall screening process. While the impact on outfalls connected to grass swales (road ditches) was negligible, pipe outfalls were affected. Even after waiting 72 hours after the rainfall event, many pipe outfalls were likely still flowing due to increased sump pump activity and above-normal detention pond levels.

Weather data was obtained from the Weather Underground website. Personal weather station KWIOSHKO4 ("Winnebago, Oshkosh, Wisconsin") is located near the intersection of CTH A and Butler Avenue, near the Winnebago County Mental Health Institute. The conditions at this weather station were considered representative of the weather in the City of Oshkosh. The weather history from May 1 through October 25 is shown in Figure 1:

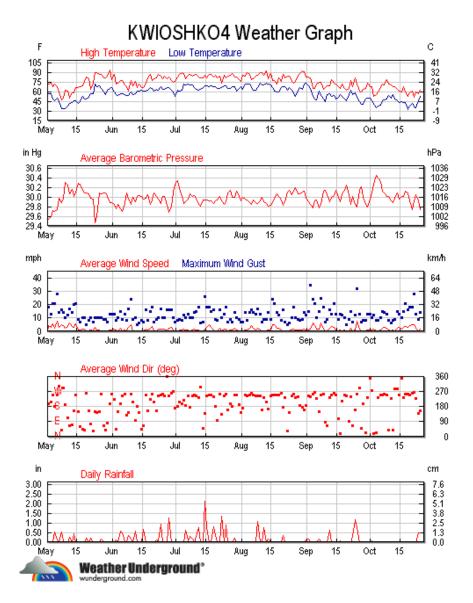


Figure 1 - Summer 2010 Weather History

Outfall inspections were conducted in the City of Oshkosh on August 17-19, 25-26, and October 20, 2010. Those inspection dates (red bars), along with the daily rainfall history (blue bars), are shown in Figure 2.

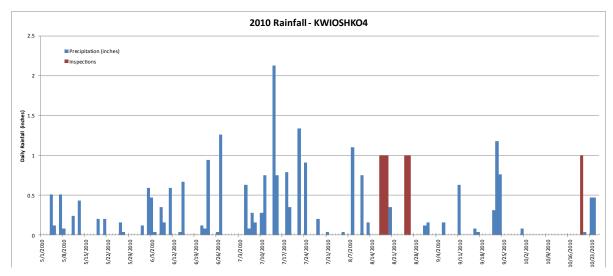


Figure 2 - Rainfall history and outfall inspections

Submerged Outfalls

During 2010, most of the outfalls in the City were located at or below the normal levels of their respective receiving waters. 77 of the 93 inspected outfalls were fully submerged, and 71 of these could not be located from the shoreline. 14 outfalls were partially submerged.

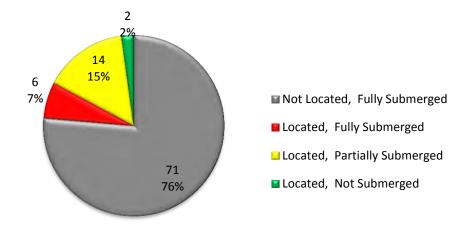


Figure 3 - Submerged outfall summary

If an outfall was fully submerged and not located, the illicit discharge screening was conducted at the first accessible upstream location, which was typically a manhole, catchbasin or curb inlet. The outfall reports for these non-located outfalls include a note that specifies that the GPS location of these outfalls is approximate, and the physical data for the outfall (shape, size, material, etc.) was based on the available MS4 mapping.

Flow

To meet the requirement of dry weather screening, outfalls were typically screened at least 72 hours after the previous rainfall event. However, because most of the storm sewer outfalls in the 2010 inspection area were partially or fully submerged, most of the outfalls were not free-flowing. Only two outfalls were not partially or fully submerged – 03-392 and 14-676. The flow intensity at the time of inspection for each of these outfalls is shown below.

Outfall	Flow Rate
03-392	No Flow
14-676	Moderate Flow

Table 1 - Non-submerged flow observations

The distribution of the flow intensity of non-submerged outfalls is shown in Figure 4:

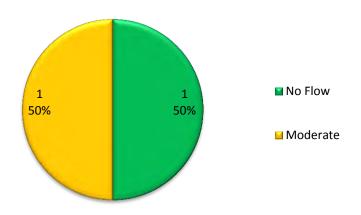


Figure 4 - Non-submerged flow intensity summary

For the fully and partially submerged outfalls, the flow was characterized as "indeterminate" if it was not possible to determine the presence or absence of flow. Otherwise, the flow was characterized as "no flow," "slight flow" or "significant flow."

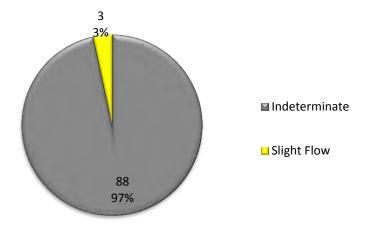


Figure 5 - Flow characteristic of submerged outfalls

If dry weather flow was found during the field screening, a sample was collected and analyzed for the presence of indicator parameters. Samples were also collected from the pools in the upstream structures of submerged outfalls. The analysis conducted is discussed in a later section.

Not all flow is an indicator of an illicit discharge. Following a significant rainfall event, surface water and groundwater elevations can be higher than normal. Much of the flow was likely from sump pump discharges, stormwater pond overflows, and infiltration.

Chemical Analysis

Flow samples were collected at all outfalls that exhibited dry-weather flow at the time of the inspection. For partially- or fully-submerged outfalls, a sample was collected from the flow or submerged pool at the first accessible upstream sampling location. 84 stormwater samples were collected as part of the ongoing screening process.

The following indicator parameters were tested:

- pH
- Temperature
- Chlorine
- Copper
- Ammonia
- Phenols (for drainage basins with industrial areas)
- Detergents

The pH of each sample was measured in the field at the time the sample was collected, and the readings ranged from 6.63 to 8.60. All of the pH measurements were in the typical range for stormwater runoff.

The temperature of the sample was recorded when the sample was collected. The temperature of the stormwater discharge can vary greatly depending on the source. For example, overflow from a detention pond, which is heated by the sun, will be significantly warmer than a sump

pump discharge. Temperature is primarily useful in identifying potential discharges of industrial process water, which may be at 100 degrees or warmer. While some sample temperatures were slightly higher than the ambient temperature, none of the samples were so high as to suspect an illicit discharge.

Chlorine (free chlorine and total chlorine), copper and ammonia were also tested in the field using test strips. No samples tested positive for chlorine or copper. Ammonia was detected in four samples:

Sample Location	Ammonia (ppm)
03-119 US1	0.5
03-35 US1	0.5
06-810 US1	0.5
12-890 US1	1

Table 2 - Ammonia detections

Ammonia detections are generally considered potential indicators of illicit discharges if they are present in high concentrations (5 ppm or greater), or if they are found in combination with other chemical parameters, such as chlorine or detergents. Low concentrations of ammonia with no other chemical indicators present are difficult to trace, and may even be naturally occurring. As a result, those detections were not treated as potential illicit discharges. (Outfalls 03-35 and 12-890 had other indicators present, so those outfalls were classified as "potential" illicit discharges due to those indicators.)

The phenol and detergent tests required a more complex titration analysis, and the tests were conducted in the office within 24 hours of collecting the sample. No samples tested positive for phenol or detergents.

During the initial screening of the major outfalls in 2009, several outfalls were noted as having "abnormal detergent analysis result (bubbles)." In these samples, the detergent analysis resulted in the sample producing bubbles in suspension. Further research showed that these bubbles were the result of turbidity in the samples, and not an indication of the presence of detergent or an illicit discharge. Additional information can be found in the CITY OF OSHKOSH INITIAL SCREENING SUMMARY REPORT (May 18, 2010).

POTENTIAL ILLICIT DISCHARGES

After examining the presence of physical indicators at each outfall and any chemical indicators present in the stormwater samples, each outfall was assigned one of the following classifications, in order of increasing likelihood of the presence of current or past illicit discharges:

- Unlikely no significant physical or chemical evidence of current or past illicit discharge
- Potential presence of physical or chemical indicators of current or past illicit discharge

Of the 93 inspected outfalls, 67 were classified as unlikely, and 26 were classified as potential. The outfalls that were classified as "potential" are summarized in the table below and discussed

in more detail in the following sections. A map showing the locations of these outfalls is included in Appendix D.

Outfall	Classification	Reason
01-132	Potential	Severe floatable debris in upstream manhole
01-520	Potential	Severe floatable debris in upstream manhole
03-173	Potential	Moderate floatable debris in upstream manhole
03-22	Potential	Severe floatable debris in upstream catchbasin
03-35	Potential	Severe floatable debris in upstream catchbasin, with ammonia
03-381	Potential	Moderate floatable debris in upstream curb inlet, with oil
03-81	Potential	Moderate floatable debris in upstream manhole, with petroleum odor
05-264	Potential	Moderate floatable debris in upstream manhole
06-1694	Potential	Moderate floatable debris in upstream curb inlet
06-221	Potential	Moderate floatable debris in upstream manhole
06-52	Potential	Severe floatable debris in upstream manhole
08-284	Potential	Severe floatable debris in upstream manhole
08-347	Potential	Severe floatable debris in upstream manhole
09-101c	Potential	Moderate floatable debris in upstream manhole
12-569	Potential	Severe floatable debris in upstream manhole
12-890	Potential	Slight petroleum sheen in upstream inlet, with ammonia
14-1075	Potential	Moderate floatable debris in upstream curb inlet
14-676	Potential	Persistent suds and sheen on water surface
16-119	Potential	Slight petroleum sheen in upstream inlet
16-142	Potential	Moderate floatable debris in upstream curb inlet
16-201	Potential	Moderate floatable debris in upstream catchbasin
16-396	Potential	Moderate floatable debris in upstream manhole
16-436	Potential	Moderate floatable debris in upstream manhole
16-463	Potential	Moderate floatable debris in upstream manhole
16-533	Potential	Moderate floatable debris in upstream manhole
16-551	Potential	Moderate floatable debris in upstream manhole

Table 3 - Outfalls with elevated illicit discharge classifications

Upstream Manholes with Significant Floatable Debris

23 upstream manholes contained significant amounts of floatable debris, including plastic bottles, foam packaging, and other solid waste. This effect was most pronounced at manholes upstream of a fully-submerged outfall, where the storm sewer pipes within the manhole were also fully-submerged. In these cases, any floatable debris traveling along the top of the storm sewer pipe will enter the manhole, and will remain suspended in the manhole pool, as they are not able to escape through the submerged outlet pipe. In these cases, the submerged manhole acts as a trap for much of the floatable debris.

Upstream manholes with significant floatable debris are listed in the table below.

Manhole	Severity
01-132 US1	Severe
01-520 US1	Severe
03-173 US2	Moderate
03-22 US1	Severe
03-35 US1	Severe (with 0.5 ppm ammonia)
03-381 US1	Moderate (with slight oil sheen)
03-81 US1	Moderate (with petroleum odor)
05-264 US1	Moderate
06-1694 US1	Moderate
06-221 US1	Moderate
06-52 US1	Severe
08-284 US1	Severe
08-347 US1	Severe
09-101c US1	Moderate
12-569 US1	Severe
14-1075 US1	Moderate
16-142 US1	Moderate
16-201 US1	Moderate
16-396 US1	Moderate
16-436 US1	Moderate
16-463 US1	Moderate
16-533 US1	Moderate
16-551 US1	Moderate

Table 4 - Upstream manholes with significant floatable debris

Upstream manholes with isolated solid waste or debris (generally three or fewer pieces) are not included in this list, and were not considered potential illicit discharges.

Photos of the floatable debris in the upstream manholes listed above are shown below. Note that in some cases, sediment and/or vegetation falls into the manhole when the manhole cover is removed, and those materials also appear in the photos. The severity of the floatable debris is based on the presence of the original debris and solid waste.



Figure 6 – Severe floatables in manhole 01-132 US1



Figure 7 – Moderate floatables in manhole 03-173 US2



Figure 8 – Severe floatables in catchbasin 03-22 US1



Figure 9 – Severe floatables in manhole 03-35 US1



Figure 10 – Moderate floatables in curb inlet 03-381 US1



Figure 11 – Moderate floatables in manhole 03-81 US1



Figure 12 – Moderate floatables in manhole 05-264 US1



Figure 13 – Moderate floatables in curb inlet 06-1694 US1



Figure 14 – Moderate floatables in manhole 06-221 US1



Figure 15 – Severe floatables in manhole 06-52 US1



Figure 16 – Severe floatables in manhole 08-284 US1



Figure 17 – Severe floatables in manhole 08-347 US1



Figure 18 – Moderate floatables in manhole 09-101c US1



Figure 19 – Severe floatables in manhole 12-569 US1



Figure 20 – Moderate floatables in curb inlet 14-1075 US1



Figure 21 – Moderate floatables in curb inlet 16-142 US1



Figure 22 – Moderate floatables in catchbasin 16-201 US1



Figure 23 – Moderate floatables in manhole 16-396 US1



Figure 24 – Moderate floatables in manhole 16-436 US1



Figure 25 – Moderate floatables in manhole 16-463 US1



Figure 26 – Moderate floatables in manhole 16-533 US1



Figure 27 - Moderate floatables in manhole 16-551 US1



Figure 28 – Severe floatables in manhole 01-520 US1

While some may not consider solid waste as a true illicit discharge, it does meet the definition of an illicit discharge, since it is a substance present in the discharge that is not comprised entirely of stormwater. In most cases, there will be one or more access points which allow the debris to enter the MS4. Because of this, the presence of significant floatable debris in upstream manholes caused the illicit discharge potential of the outfall to be raised to "potential."

It is recommended that the outfalls with significant floatable debris be reinspected during the 2011 ongoing screening program. These manholes should be cleaned several months prior to the next outfall screening. By doing this, it will be possible to determine if the debris is from a prior discharge, or if the problem is ongoing. If it is determined that it is an ongoing problem, upstream inlets, especially those located near dumpsters or other solid waste storage areas, should be closely examined in an attempt to locate the source of the discharge. These areas could then be targeted for public education campaigns.

A map showing the locations of the manholes with floatable debris is included in Appendix G.

Upstream Manholes with Oil Sheen

Three upstream manholes exhibited a slight oil sheen at the time of inspection:

- 03-381 US1
- 12-890 US1
- 16-119 US1

In all cases, the sheen was isolated to small patch on the surface of the pooled water, and was likely caused by trace amounts of oil from street runoff. The inlets with the oil sheen are shown in the photos below.



Figure 29 – Slight oil sheen in curb inlet 03-381 US1



Figure 30 – Slight oil sheen in inlet 12-890 US1



Figure 31 – Slight oil sheen in curb inlet 16-119 US1

Because the oil is in such limited quantities in each inlet, it is unlikely to identify an actual source of the discharge other than general street or parking lot runoff. If larger oil sheens are observed in the future, then additional screening may be warranted.

Outfall 14-676 (Waukau Avenue Culvert)

Outfall 14-676 consists of a 30-inch corrugated metal pipe (CMP) that discharges into a corrugated metal pipe arch culvert crossing W. Waukau Avenue, just west of Oregon Street. During the inspection, the pool in the culvert contained a noticeable amount of suds. No suds were observed in the stream upstream of the outfall. While some suds and bubbles can typically occur when the flow from an outfall drops into the receiving channel, these bubbles are typically short-lived, and located only in the area of the outfall. Because these bubbles persisted downstream, an illicit discharge was suspected.



Figure 32 - Suds in receiving stream for outfall 14-676

This outfall was exhibiting similar characteristics during the initial screening of the major outfalls on September 4, 2009. At that time, it was recommended that the outfall be rescreened in 2010

to determine if the discharge was intermittent or ongoing. The presence of the suds in 2010 indicates that the discharge is ongoing.

Samples were collected from the flowing outfall, as well as from the surface of the receiving stream, including some of the bubbles. Both samples tested negative for detergents and other illicit discharge indicator parameters.

The Illicit Discharge Coordinator was notified of the discharge on August 26, 2010. No additional tracing of the discharge was performed at that time. This outfall should be rescreened in 2011 to determine if the discharge is ongoing. If the suds are still present, the flow should be traced upstream to identify potential sources of the discharge, as well as attempting to identify the nature of the suds.

Additional information related to this investigation is included in Appendix H.

OUTFALL CONDITION ASSESSMENTS

While not required for the illicit discharge field screening, OMNNI inspectors noted the presence of any graffiti, damage or significant erosion or deposition at the outfalls. This information can be passed along to the appropriate departments for any necessary action.

Graffiti

No graffiti was observed at any of the 93 inspected outfalls. This is partly due to the fact that most of the outfall pipes – which are typically the most vandalized components of the storm sewer system – are partially or fully submerged, and essentially inaccessible to vandals. Only two outfalls were not submerged, and neither of those had graffiti at the time of inspection.

Damage

Eight outfalls showed signs of damage that may require attention in the near future. Most of the damage consisted of relatively minor defects, such as corrosion, damaged concrete, broken castings, or stuck manhole lids. The manhole at 08-100 US1 was in the area being reconstructed for the convention center, and had been partially removed. Because the storm sewer will likely be rerouted as part of the project, no repairs would be necessary at that manhole.

The damage is shown in the photos below. The locations of the damaged outfalls are shown on the map in Appendix E.



Figure 33 – Rusted/broken bolts at upstream manhole 03-173 US1 (moderate damage)



Figure 34 – Minor corrosion at outfall 03-293 (minor damage)



Figure 35 – Damaged rings at upstream manhole 03-306 US1 (minor damage)



Figure 36 – Upstream manhole 08-100 US1 removed during reconstruction (major damage)



Figure 37 – Debris inside upstream catchbasin 12-890 US1 (minor damage)



Figure 38 – Stuck lid at upstream manhole 12-972 US1



Figure 39 - Corrosion and crushed CMP at outfall 15-1093 (minor damage)



Figure 40 - Broken grate at upstream catchbasin 16-873 US1 (minor damage)

Erosion

None of the outfalls showed signs of erosion at the ends of the outfall pipes. This is likely because most of the outfalls that were inspected, with the exception of two, were partially or fully submerged, which minimizes the potential for erosion.

Deposition

Eight of the outfalls showed minor to moderate deposition at the end of the outfall pipe or manhole bottom. As deposition increases, flow may become restricted in the pipe or downstream channel. Outfalls with moderate or severe deposition may need to undergo maintenance to remove the deposited sediment and debris and maintain proper flow.

The deposition is shown in the photos below. The locations of the outfalls with deposition are shown on the map in Appendix F.



Figure 41 - Moderate deposition (4") in catchbasin 01-318 US1



Figure 42 - Minor deposition (1") in manhole 01-360 US2



Figure 43 - Moderate deposition (12") in manhole 01-380 US1



Figure 44 - Moderate deposition (3") at outfall 03-392



Figure 45 - Minor deposition (2") in inlet 06-1694 US1



Figure 46 - Moderate deposition (8") in inlet 14-1075 US1



Figure 47 - Minor deposition (3") in manhole 16-164 US1



Figure 48 - Minor deposition (1") in manhole 16-362 US1

CONCLUSION

OMNNI assisted the City of Oshkosh with the 2010 ongoing screening of the MS4 outfalls, as required by the MS4 permit. A total of 93 outfalls were screened, along with upstream monitoring locations when necessary. Of those 93 outfalls, 67 exhibited unlikely potential of past illicit discharges, and 26 were classified as potential illicit discharges. These results are summarized in Figure 49:

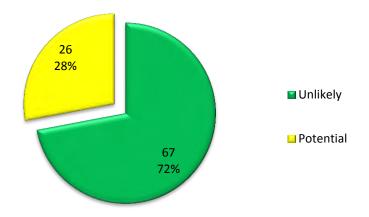


Figure 49 - Illicit discharge potential

Those outfalls classified as "potential" should be given special attention in the ongoing screening program.

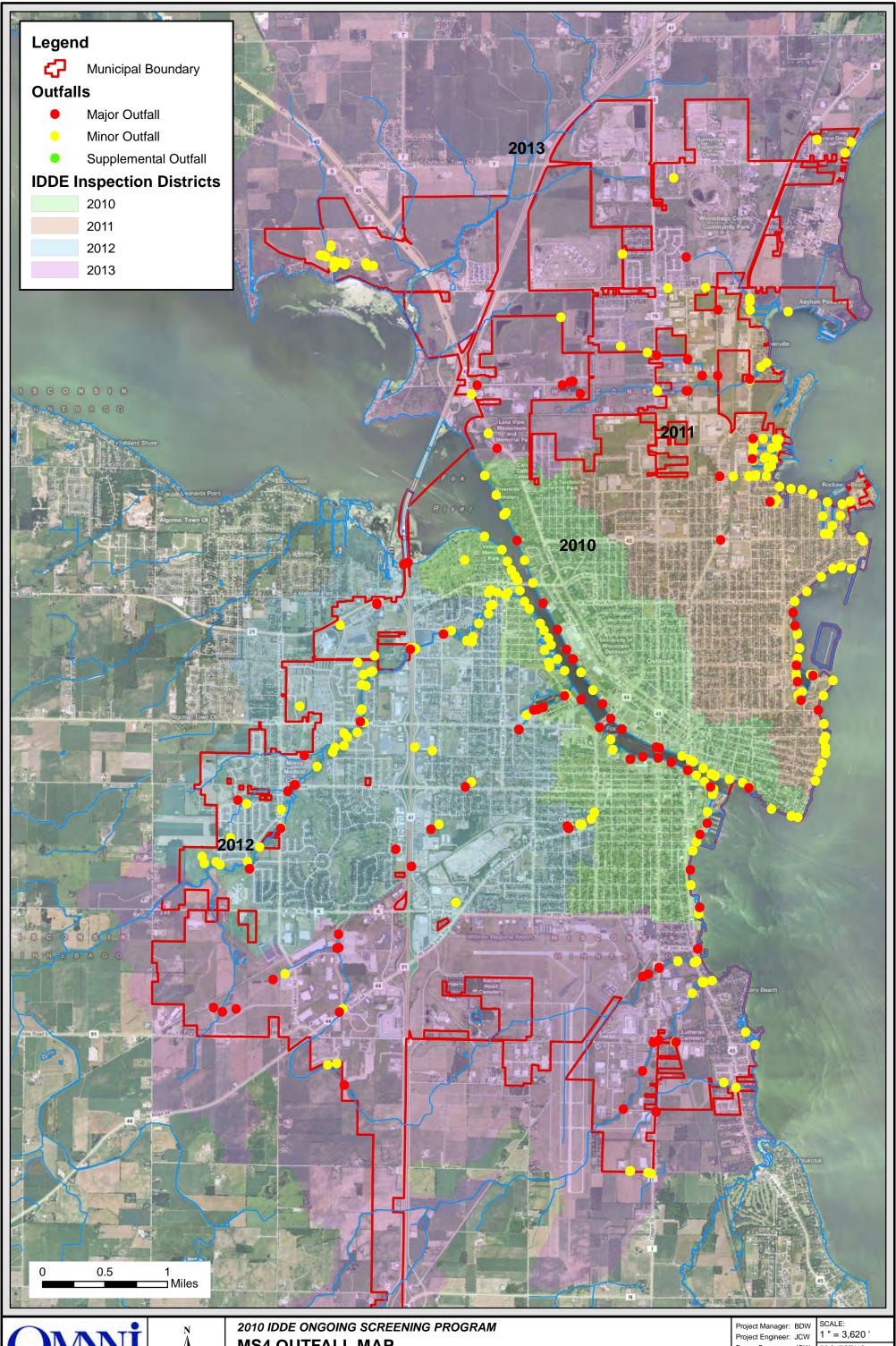
In addition, the ongoing screening identified no outfalls with graffiti, eight outfalls or manholes with structural damage, none with noticeable erosion, and eight with deposition. While none of these posed an immediate danger, the City will likely want to address these issues as part of the regular storm sewer system maintenance.

STANDARD OF CARE

The conclusions presented in this report were arrived at using generally accepted engineering practices. The conclusions presented herein represent our professional opinions, based on data collected at the time of the inspections, at the specific inspection locations discussed in this report. Conditions at other locations in the City may be different than described in this report. The scope of this report is limited to the specific project and the inspection locations described herein.

Prepared By:		
	Jason Weis, P.E.	
	Project Engineer	
Reviewed By:	Brian D. Waynes	
	Brian D. Wayner, P.E.	
	Project Manager	

Appendix AMS4 Outfall Map







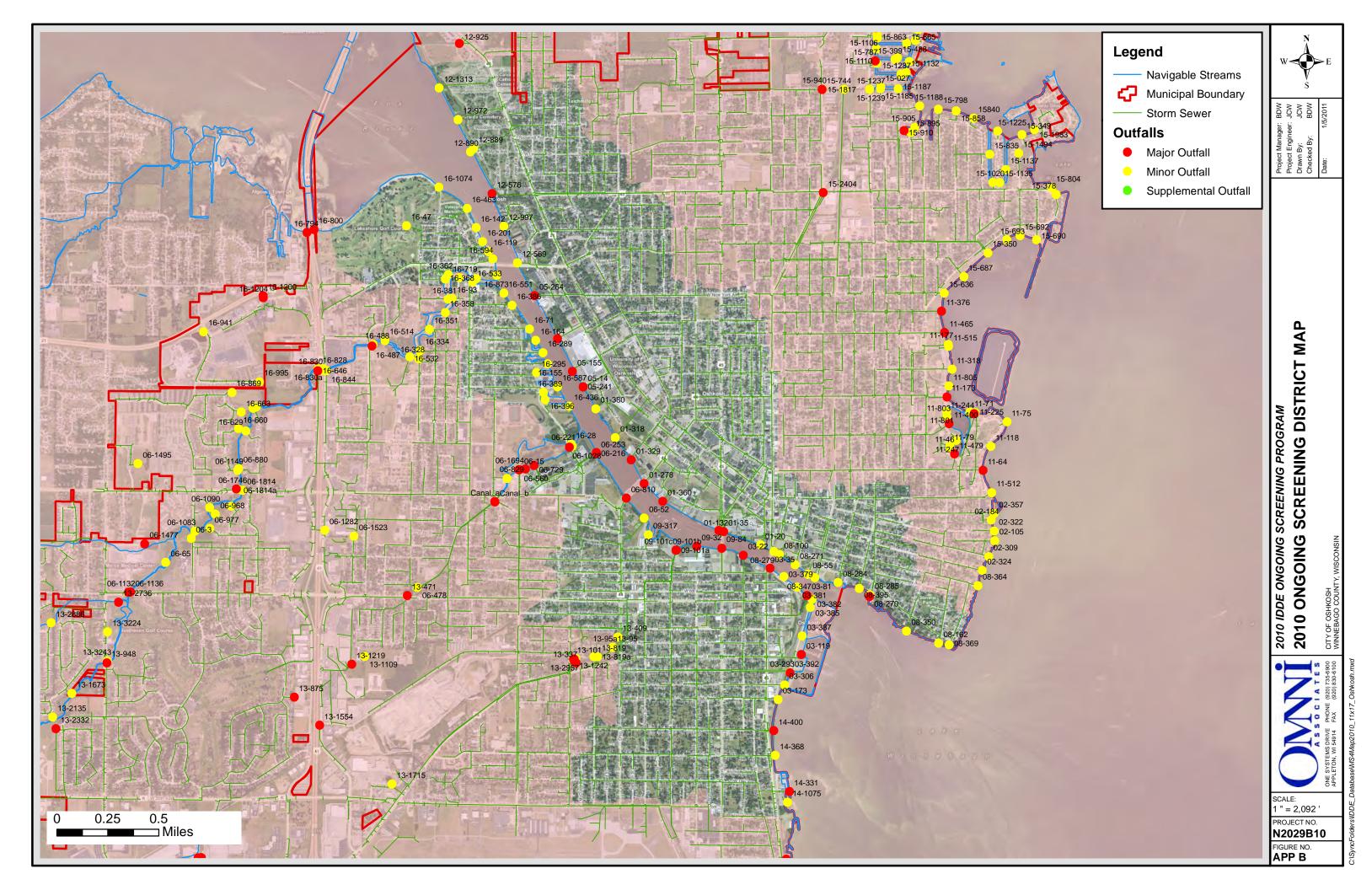
MS4 OUTFALL MAP

CITY OF OSHKOSH WINNEBAGO COUNTY, WISCONSIN

Drawn By: Checked By: JCW Date: 1/5/2011

PROJECT NO. **N2029B10** FIGURE NO.

Appendix B 2010 Ongoing Screening District Map



Appendix C 2010 Outfall Inspection Reports

Outfall ID: 01-20

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Basin Name:

Division St

Dimensions

Diameter (in): Height/Depth (in): 36

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100826102034.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4

State Plane Coordinates: **County Coordinates:**

472,017 737,566 Northing: Northing: 2,352,917 Easting: 792,821 Easting:

Location Map



Inspection Date: 8/26/2010 10:29:06 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-20 Submerged: Fully Depth (in): US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-20 US2

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

■ Not Physically Located

08.28.2010 10:24

o20100826102426.JPG

Outfall Notes:

Upstream manhole located approx 138 ft NNE of outfall 01-20. Intermediate area consists of parking ramp. GPS not available in ramp - location from MS4 map. First upstream manhole not located.

County Coordinates: State Plane Coordinates:

Northing: 472,153 Northing: 737,703 Easting: 792,850 Easting: 2,352,944

Location Map



Inspection	Date: 8/26/2	2010 10:36:00 AM	Inspector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	ription: Subn	nerged, indetermina	ate Notes:					140
Submerged	: Fully	Depth (in): 26						
Illicit Disch	arge Potentia	: Unlikely		Field F	Follow-up (Office Follow-up	The state of the s	
Floatables:	None		etroleum Sheer atural Sheen	n	Sewage Solid Wast	Other e/Debris		-
Odor:	None		etroleum OC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		08 28 2010 10 24
Turbidity:	Slight clouding	ess				Other	020100826102	2442.JPG
Color:	Faint in bottle	Brown	า				-Sampling Results	
Vegetation:	None	Inl	nibited [] [Excessive			Sample Location: Poo	
Benthic Gro	wth: None	☐ Gr	reen 🗌 I	Brown [Orange O	ther	Sample ID: 1006 Time Collected: 1036	826-03 5
Stains:	None			Oil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
-Physical	Condition Asse	essment ———					Total Copper (field):	0 ppm
Graffiti:	None						Ammonia (field):	0 ppm
Erosion:	None						pH (field):	8.05 <i>units</i>
Depositio		Depth (in):					Temperature:	76 °F
Damage:	None	DisplacementCorrosion	Undercut Concrete [☐ Crus Damage	shed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 01-35

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Basin Name:

Division St

Dimensions

Diameter (in): Height/Depth (in): 36

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20100825122338.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 01-35 US1.

State Plane Coordinates: **County Coordinates:**

Northing: 472,359 737,891 Northing: 2,351,957 Easting: 791,866 Easting:



Location Map



Inspection Date: Inspection Type: Ongoing 8/25/2010 12:28:17 PM Inspector: **JCW** Previous Rainfall (hrs): 72+ Outfall partially submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 01-35 US1. Estimated Submerged: Partially Depth (in): 15 submerged depth. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Othe o20100825122350.JPG Turbidity: None Sampling Results Color: None Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Moderate Orange Other ✓ Green Brown Time Collected ✓ Flow Line Stains: Slight Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Phenol: Corrosion Concrete Damage mg/L

Outfall ID: 01-35

Inspection Date: 9/9/2009	Inspector: JCW Ins	spection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description: Submerged, indetermin	te Notes:			10.00	
Submerged: Partially Depth (in): 21				*	4 1
Illicit Discharge Potential: Potential	☐ Field Fol	low-up 🗌 C	Office Follow-up		
	troleum Sheen Suds tural Sheen Algae	Sewage Solid Wast	Other e/Debris		
	troleum Musty OC/Solvent Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		09.09.2009 11:12
Turbidity: None			Othe	Osh09_DSCN67	709.JPG
Color: None			Г	Sampling Results———	
Vegetation: None In	nibited Excessive			Sample Location:	
Benthic Growth: None G	een Brown	Orange 🗌 O	ther	Sample ID: Time Collected	
		Rust Stains		Total Chlorine (field):	ppm
Physical Condition Assessment Graffiti: None Erosion: None Deposition: None Depth (in): 0 Damage: None Displacement	Undercut Crushe	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	ppm ppm ppm units F mg/L
Corrosion	Concrete Damage			Phenol:	mg/L

Outfall ID: 01-35 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

Division St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20100825122536.JPG

Outfall Notes:

Upstream manhole located approx 72 ft N of outfall 01-35. Intermediate area consists of paved parking area with no observed inlets.

County Coordinates: State Plane Coordinates:

Northing: 472,431 Northing: 737,963 Easting: 791,868 Easting: 2,351,957



Inspection	Date: 8/25/2010 12:35	:05 PM Inspect	or: JCW I	nspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descri Submerged	ription: Submerged, inc : Partially Depth	determinate Note	es:				
Illicit Disch	arge Potential: Unlike	у	ollow-up	Office Follow-up			
Floatables:	None	Petroleum SI Natural Shee	=	Sewage Solid Wast	Other e/Debris		1
Odor:	None	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour	× ×	05 25 2-2-2 12:25
Turbidity:	Slight cloudiness				Othe	02010082512	2544.JPG
Color:	Faint in bottle	Brown				-Sampling Results	
Vegetation:	None	Inhibited [Excessive			Sample Location: Pool Sample ID: 100	ol 0825-84
Benthic Gro	wth: Slight	✓ Green	✓ Brown	Orange C	Other	Time Collected 123	35
Stains:	None	Flow Line [Corrosion [Oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
-	Condition Assessment -					Total Copper (field):	0 ppm
Graffiti:	None					Ammonia (field):	0 ppm
Erosion:	None	V -				pH (field):	7.99 <i>units</i>
Deposition Damage:	Nana —	, <u> </u>				Temperature:	76 °F
Damage.	Displa	acement Underd	cut	ned		Detergents: Phenol:	0 mg/L mg/L

Outfall ID: 01-35 US1

Inspection	Date:	9/9/2009	Inspector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, indetermin	nate Notes:	Abnormal c	detergent analysis	result (bubbles)	Mary Mary	
Submerged	: Parti	ally Depth (in): 14						
Illicit Disch	arge P	otential: Potential		Field F	Follow-up 🗌 (Office Follow-up		
Floatables:	None		'etroleum Sheei Iatural Sheen	n	Sewage Solid Wast	Other e/Debris		
Odor:	None		etroleum OC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		06.06.2006 11:18
Turbidity:	None					Othe	Osh09_DSCN6	6712.JPG
Color:	None						Sampling Results	
Vegetation:		None Ir	nhibited 🗌 E	Excessive			Sample Location: Pool Sample ID: 090	I 909-50
Benthic Gro	wth:	None G	Green 🗌 E	Brown	Orange O	ther	Time Collected 112	
Stains:				Oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
- Physical	Conditio	on Assessment ———					Total Copper (field):	0 <i>ppm</i>
Graffiti:		one					Ammonia (field):	ppm
Erosion:		one Donath (in)					pH (field):	8.61 <i>units</i>
Depositio		one Depth (in): 0					Temperature:	78 °F
Damage:	INC	Displacement Corrosion	Undercut Concrete	☐ Crus Damage	shed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 01-132

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Cast Iron

Basin Name:

Division St

Dimensions

Diameter (in): Height/Depth (in): 24

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

10.29.2010 10:13

o20101020101356.jpg

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: Sta

State Plane Coordinates:

Northing: 472,365 Northing: 737,895 Easting: 791,802 Easting: 2,351,892



Inspection Date: 10/20/2010 10:13:00 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-Submerged: Fully Depth (in): 132 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-132 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

Division St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20101020100512.jpg

Outfall Notes:

Upstream manhole located approx 87 ft N of outfall 01-132. Intermediate area consists of street right-ofway.

State Plane Coordinates: **County Coordinates:**

472,451 737,982 Northing: Northing: 2,351,902 Easting: 791,814 Easting:

Location Map



Inspection Date: 10/20/2010 10:09:04 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Significant floatable debris in manhole. Submerged: Fully Depth (in): 26 Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Floatables: Severe Petroleum Sheen Suds Sewage Other ✓ Solid Waste/Debris Natural Sheen Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe o20101020100524.jpg Turbidity: Slight cloudiness Color: Clearly visible in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 101020-60 Benthic Growth: None Orange Other Green Brown Time Collected 1010 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.55 units Deposition: None Depth (in): F Temperature: 55 Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-278

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Basin Name:

Dawes St

Dimensions

Diameter (in): Height/Depth (in): 24

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825131702.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

739,096 Northing: 473,601 Northing: 2,349,880 Easting: 789,812 Easting:



Location Map

Inspection Date: 8/25/2010 1:23:51 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-Submerged: Fully Depth (in): 278 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Other Floatables: None Petroleum Sheen Suds Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-278

Inspection Date:	9/9/2009 In	spector: JCW	Inspection Type	: Initial	Previous Rainfall (hrs): 72+
Flow Description: Submerged: Fully	Submerged, indeterminate Depth (in):		ıll fully submerged and ed. Outfall screened ι JS1.		
Floatables: None	Petrole	eum Sheen 🔲	Field Follow-up Suds Sewage Algae Solid Was	Office Follow-up Other ste/Debris	Photo Not Available Submerged Outfall
Odor: None	Petrole VOC/S	_	Musty Sewage Fishy Sulfur	☐ Chlorine ☐ Sour	
Turbidity: None				Othe	_Submerged.jpg
Color: None					Sampling Results Sample Location:
Vegetation:	None Inhibite	ed Excess	iive		Sample ID:
Benthic Growth:	None Green	Brown	Orange	Other	Time Collected
Stains: [ne ne		Rust Stains Other		Total Chlorine (field): ppm Free Chlorine (field): ppm Total Copper (field): ppm Ammonia (field): ppm pH (field): units Temperature: F
Damage: No	Displacement C	Jndercut Concrete Damag	Crushed e		Detergents: mg/L Phenol: mg/L

Outfall ID: 01-278 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

Dawes St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.25.2610 18.417

o20100825131754.JPG

Outfall Notes:

Upstream manhole located approx 18 ft NE of outfall 01-278. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 473,614 Northing: 739,109 Easting: 789,824 Easting: 2,349,892



Inspection	Date: 8/2	25/2010 1:26:55 PM Ir	spector: .	JCW Ins	spection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci	•	bmerged, indeterminate Depth (in): 52	Notes:				7	
Illicit Disch	narge Poten	tial: Unlikely		Field Fol	llow-up	Office Follow-up		
Floatables:	None		um Sheen I Sheen	Suds Algae	SewageSolid Wast	Other e/Debris		
Odor:	None	Petrole VOC/S		☐ Musty	Sewage Sulfur	Chlorine Sour	1.	08 26 3010 ia:14
Turbidity:	None					Othe	020100825131	1804.JPG
Color:	None						Sampling Results	
Vegetation:	None	e	ed 🗌 Ex	cessive			Sample Location: Poo	
Benthic Gro	owth: Sligh	nt	Br	own	Orange 🗌 O	ther	Sample ID: 100 Time Collected 132	825-58 5
Stains:	None				Rust Stains		Total Chlorine (field):	0 ppm
Graffiti: Erosion: Deposition Damage:		Depth (in):	Jndercut Concrete Da	☐ Crushe	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm 7.6 units 72 °F 0 mg/L 0 mg/L

Outfall ID: 01-278 US1

Inspection	Date:	9/9/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
	-	Submerged, inde		Notes:					
Submerged	: Fully	Depth (ir	1): 48						
Illicit Disch	arge P	otential: Unlikely			Field	Follow-up	Office Follow-up	A Company of the Comp	
Floatables:	None			um Shee Sheen	n 🗌 Suds		Other te/Debris		
Odor:	None		Petrole VOC/S	-	☐ Must	, <u> </u>	☐ Chlorine☐ Sour		99 99 2509 70 /1
Turbidity:	None						Othe	Osh09_DSCN6	8706.JPG
Color:	None							- Sampling Results	
Vegetation:		None	☐ Inhibite	ed 🗆	Excessive			Sample Location: Poo	I
Benthic Gro				_			Other	Sample ID: 090	909-64
benunc Gro	WIII.	Slight	✓ Green		Brown	Orange C	omer	Time Collected 104	9
Stains:		None	Flow Li		Oil [Rust Stains		Total Chlorine (field):	0 ppm
- Physical		on Assessment —	Corrosi	ion 📙	Paint	Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Erosion:		one						Ammonia (field): pH (field):	ppm 7.81 units
Deposition	n: No	one Depth (in):	0					Temperature:	7.81 units 76 °F
Damage:	No	one Displac		Indercut Concrete I		shed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 01-318

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Width (in):

Diameter (in): Height/Depth (in):

30

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825134846.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

474,793 740,274 Northing: Northing: Easting: 789,064 Easting: 2,349,111



Location Map



Previous Rainfall (hrs): 72+ Inspection Date: 8/25/2010 1:56:39 PM Inspector: **JCW** Inspection Type: Ongoing Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-Submerged: Fully Depth (in): 318 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-318 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

Blawkhawk St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20100825135002.JPG

Outfall Notes:

Upstream catchbasin located approx 27 ft E of outfall 01-318. Intermediate area consists of open space.

County Coordinates:

State Plane Coordinates:

Northing: 474,788 Northing: 740,269 Easting: 789,092 Easting: 2,349,139



Inspection Date: Inspector: Inspection Type: Ongoing 8/25/2010 1:58:46 PM **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 50 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Faint Petroleum Musty Sewage Chlorine Fishy **✓** Sulfur Sour o20100825135010.JPG Othe Turbidity: None Color: None Sampling Results Sample Location: Pool Inhibited Vegetation: None Excessive Sample ID: 100825-05 Benthic Growth: Slight Orange Other ✓ Green Brown Time Collected 1400 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.44 units Deposition: Moderate Depth (in): 4 F Temperature: 74 Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-329

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 48
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

DI-2H-ROTE/AFLET

o20100825140102.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: S

State Plane Coordinates:

Northing: 474,217 Northing: 739,705 Easting: 789,477 Easting: 2,349,534



Inspection	Date: 8/25/	2010 2:08:27 PM	Inspector:	JCW	Inspection Typ	e: Ongoing	Previous Rainfall (hrs	s): 72+
Flow Descr Submerged	•	nerged, indeterminate Depth (in):	Notes:	located.	, ,	nd not physically I upstream at 01-		
ŭ	•	,		329 US1.				
Illicit Disch	arge Potentia	I: Unlikely		Field	Follow-up	Office Follow-up	Photo Not	Available
Floatables:	None		oleum Sheen Iral Sheen	Suds	3-	Other aste/Debris	Submerge	
Odor:	None		oleum C/Solvent	☐ Must	, = .	Chlorine Sour		
Turbidity:	None					Other	_Subme	erged.jpg
Color:	None					Г	-Sampling Results	
Vocatation	None		ited	xcessive			Sample Location:	
Vegetation:							Sample ID:	
Benthic Gro	wth: None	Gree	en 🗌 B	rown	Orange	Other	Time Collected:	
Stains:	None	Flow	Line 🗌 C	il	Rust Stains		Total Chlorine (field):	ppm
Dhysiaal	Canditian Ass		osion \square P	aint	Other		Free Chlorine (field):	ррт
,	Condition Asse	essment ———					Total Copper (field):	ppm
Graffiti: Erosion:	None None						Ammonia (field):	ppm
Depositio		Depth (in):					pH (field):	units
Damage:		_' ` ' _] Lladorout	□ c	, ab a d		Temperature:	%F ~~//
		Displacement Corrosion	Undercut Concrete D		ıshed		Detergents: Phenol:	mg/L mg/L

Outfall ID: 01-329

Inspection Date	: 9/8/2009 In	nspector: JCW Insp	ection Type: I	Initial	Previous Rainfall (hrs): 72	+
Flow Description Submerged: Fu	n: Submerged, indeterminate lly Depth (in):	Notes: Outfall fully sub located. Outfal 329 US1.				
Illicit Discharge	Potential: Potential	☐ Field Follo	w-up Of	ffice Follow-up	Photo Not Ava	ilabla
Floatables: Non		eum Sheen	Sewage Solid Waste	Other /Debris	Submerged Out	
Odor: Non	Petrole VOC/S	=,	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity: Non	Э			Other	_Submerged.jpg	7
Color: Non	Э			Γ,	Sampling Results ————	
Vegetation:	None Inhibit				Sample Location: Sample ID:	
Benthic Growth:	None Green	☐ Brown ☐ O	range Oth	ner	Time Collected:	
Graffiti: Erosion:	None Flow L Corros		ust Stains ther		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature:	ppm ppm ppm ppm ppm units °F
Damage:		Jndercut			Detergents: Phenol:	mg/L mg/L

Outfall ID: 01-329 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

C8: 26, 2010 -13:02

o20100825140232.JPG

Outfall Notes:

Upstream manhole located approx 53 ft NNE of outfall 01-329. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 474,268 Northing: 739,757 Easting: 789,490 Easting: 2,349,547



Inspection Date:	8/25/2010 2:21:30	PM Inspector:	JCW Inspe	ection Type:	Ongoing	Previous Rainfall (hrs):	72+
•	n: Submerged, inde		Debris in photo i		ass clippings		
Submerged: Ful	lly Depth (in)): 47	gg				
Illicit Discharge	Potential: Unlikely		Field Follow	v-up 🗌 🤇	Office Follow-up		
Floatables: None	е	Petroleum Sheel Natural Sheen	n Suds Algae] Sewage] Solid Wast	Other re/Debris		
Odor: None	е	Petroleum VOC/Solvent	☐ Musty ☐ ☐ Fishy ☐] Sewage] Sulfur	☐ Chlorine☐ Sour		10 M 2010 12 12
Turbidity: None	е				Other	o20100825140	242.JPG
Color: Faint	t in bottle	Brown			Γ	Sampling Results ———	
Vegetation:	None	☐ Inhibited ☐ I	Excessive			Sample Location: Pool	
Benthic Growth:	None	Green I	Brown 🗌 Ora	ange 🗌 O	Other	Sample ID: 1008 Time Collected: 1410	325-96
Stains:	None			st Stains		Total Chlorine (field):	0 ppm
Graffiti: I Erosion: I Deposition: I	None None None Depth (in):		Paint Oth	ier		Temperature:	0 ppm 0 ppm 0 ppm 8.22 units 75 °F
Damage.	None Displace	_	Crushed Damage			Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 01-329 US1

Inspection Date: 9/8/2009	Inspector:	JCW Ins	spection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description: Submerged, ind	eterminate Notes:	Abnormal det	ergent analysis	result (bubbles)		The second second
Submerged: Fully Depth (i	n): 48					
Illicit Discharge Potential: Potentia	al	Field Foll	low-up 🗌 C	Office Follow-up		
Floatables: None	Petroleum Shee Natural Sheen	n	Sewage Solid Wast	Other e/Debris		
Odor: None	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		09.05.2009 15:29
Turbidity: None				Other	Osh09_DSCN6	6667.JPG
Color: None					Sampling Results	
Vegetation: None	☐ Inhibited ☐	Excessive			Sample Location: Poo	
Benthic Growth: None	Green	Brown 🗌 (Orange 🗌 O	other	Sample ID: 0909 Time Collected: 1539	908-26
Stains: None	Flow Line	Oil 🔲 I	Rust Stains		Total Chlorine (field):	0 ppm
Physical Condition Assessment — Graffiti: None Erosion: None Deposition: None Depth (in) Damage: None Displa		Paint	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	0 ppm 0 ppm ppm 8.7 units 76 °F 0 mg/L
Corros	ion Concrete I	Damage			Phenol:	0 mg/L

Outfall ID: 01-360

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Basin Name:

Dawes St

Dimensions

Diameter (in): Height/Depth (in): 42

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



o20100825130230.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

473,145 738,649 Northing: Northing: 2,350,366 Easting: 790,290 Easting:



Location Map

Inspection Date: 8/25/2010 1:09:19 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-Submerged: Fully Depth (in): 360 US2. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-360

Inspection	Date: 9/8	8/ 2009 In	spector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	ubmerged, indeterminate Depth (in): 44	Notes:	,	submerged and i itfall screened up	, , ,		
Illicit Disch	arge Poten	ntial: Potential		Field F	ollow-up 🗌 C	Office Follow-up		
Floatables:	None	Petrole Natural	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09.08.2009 15:08
Turbidity:	None					Other	Osh09_DSCN6	660.JPG
Color:	None					Г	Sampling Results ———	
Vegetation: Benthic Gro	Nonwth: Non		_	excessive] Orange 🔲 O	ther	Sample Location: Sample ID: Time Collected:	
Stains:	Non	e Flow Li	_	Dil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ррт ррт
Graffiti: Erosion: Depositio Damage:		Depth (in):	ndercut oncrete D	☐ Crusł amage	ned		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm units °F mg/L mg/L

Outfall ID: 01-360 US2

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.25.2010 13:03

o20100825130352.JPG

Outfall Notes:

Upstream manhole located approx 57 ft NE of outfall 01-360. Intermediate area consists of paved parking and open space. First upstream manhole not located.

County Coordinates: State Plane Coordinates:

Northing: 473,194 Northing: 738,698 Easting: 790,319 Easting: 2,350,394

Location Map



Inspection Type: Ongoing Inspection Date: 8/25/2010 1:13:50 PM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 26 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Petroleum Sheen Suds Floatables: None Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour o20100825130406.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-02 Benthic Growth: Slight Orange Other Green **✓** Brown Time Collected: 1315 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.13 units Deposition: Minor Depth (in): 1 72 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 01-380

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 30
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.25.2010, 1447

o20100825141742.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 475,538 Northing: 741,010 Easting: 788,561 Easting: 2,348,594



8/25/2010 2:25:22 PM Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-Submerged: Fully Depth (in): 380 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-380 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

38 35 2010 Td 8

o20100825141830.JPG

Outfall Notes:

Upstream manhole located approx 43 ft NE of outfall 01-380. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 475,567 Northing: 741,039 Easting: 788,593 Easting: 2,348,626





Inspection Date: 8/25/2010 2:27:54 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Thick black muck on bottom. Submerged: Fully Depth (in): 41 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour o20100825141838.JPG Other Turbidity: Slight cloudiness Sampling Results Color: None Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100825-59 Benthic Growth: None Orange Other Green Brown Time Collected: 1425 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.66 units Deposition: Moderate Depth (in): 12 75 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 01-520

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Basin Name:

Division St

Dimensions

Diameter (in): Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

0a, 25, 2010 12:37

o20100825123724.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map. (OSH-9424 in early reports.)

County Coordinates: State Plane Coordinates:

Northing: 472,390 Northing: 737,920 Easting: 791,740 Easting: 2,351,830

Location Map



Inspection Date: 8/25/2010 12:43:21 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 01-Submerged: Fully Depth (in): 520 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 01-520

Inspection	Date:	9/9/2009	Inspector:	JCW Ir	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Desci	•	Submerged, indetermina Depth (in): 56	Notes:	,	submerged and trail screened up	. , ,		
Illicit Disch	narge Pot	ential: Potential		Field Fo	ollow-up 🗌 (Office Follow-up		
Floatables:	None		troleum Sheer tural Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		E
Odor:	None		troleum C/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		00.00,7000 11.71
Turbidity:	None					Othe	Osh09_DSCN6	715.JPG
Color:	None						- Sampling Results	
Vegetation:			_	Excessive Brown	Orange 🗌 O	other	Sample Location: Sample ID: Time Collected	
Stains:	N			Dil □	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm
Graffiti: Erosion: Depositic Damage:	None None on: None	e e Depth (in):		☐ Crush Damage			Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units F mg/L mg/L

Outfall ID: 01-520 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

Division St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20100825124642.JPG

Outfall Notes:

Upstream manhole located approx 28 ft N of outfall 01-520. Intermediate area consists of rip-rap shoreline. (OSH-9424 US1 in early reports.)

County Coordinates: State Plane Coordinates:

Northing: 472,419 Northing: 737,948 Easting: 791,742 Easting: 2,351,831



Inspection	Date: 8	8/25/2010 12:53:35 PM	Inspector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	ription:	Submerged, indetermina	te Notes:	Significant	t floatable debris ir	n manhole.		
Submerged	: Fully	Depth (in): 72						
Illicit Disch	arge Pote	ential: Potential		Field	Follow-up	Office Follow-up	1 Por	
Floatables:	Severe		roleum Shee tural Sheen	en 🗌 Suds 🗌 Algae	=	Other te/Debris		
Odor:	None		roleum C/Solvent	☐ Must	, <u> </u>	Chlorine Sour		08.25.2010 12:47
Turbidity:	None					Othe	o20100825124	1708.JPG
Color:	Faint in b	pottle Brown					Sampling Results	
Vegetation:	No	one	ibited	Excessive			Sample Location: Pool Sample ID: 100	l 825-90
Benthic Gro	owth: No	one Gr	een 🗌	Brown [Orange C	Other	Time Collected 125	5
Stains:	No		_	Oil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
Physical	Condition	Assessment					Total Copper (field):	0 ppm
Graffiti:	None	-					Ammonia (field):	0 ppm
Erosion:	None						pH (field):	8.18 <i>units</i>
Depositio		-1 ()	_				Temperature:	73 °F
Damage:	None	Displacement [Undercut Concrete		shed		Detergents: Phenol:	0 mg/L mg/L

Outfall ID: 01-520 US1

Inspection Date: 9/9/20	09 In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description: Subm Submerged: Fully	perged, indeterminate Depth (in): 61	Notes:	(bubbles).	detergent analysis Significant floatal Brown color.		1/6	
Illicit Discharge Potential	: Potential	☐ Field Follow-up ☐ Office Follow-up				A 1	
Floatables: Severe		um Sheer Sheen	n 🗌 Suds Algae	☐ Sewage ✓ Solid Wast	Other		
Odor: None	Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		09.09.2009 11:25
Turbidity: None					Othe	Osh09_DSCN6	718.JPG
Color: Clearly visible	in bottle Brown				Γ	- Sampling Results	
Vegetation: None Benthic Growth: None	☐ Inhibite	_	Excessive Brown [Orange 🗌 O	Other	Sample Location: Pool Sample ID: 0908 Time Collected 1138	909-57
Stains: None Physical Condition Asse	Flow Li		Dil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti: None Erosion: None Deposition: None Damage: None	Depth (in): 0	Indercut	☐ Crus	shed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	0 ppm ppm 8.6 units 78 °F 0 mg/L
	Corrosion C	Concrete D	amage			Phenol:	0 mg/L

Outfall ID: 03-22

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 36

Width (in): 58

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



o20100818101918.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,751 Northing: 737,292 Easting: 792,375 Easting: 2,352,476



Inspection	Date: 8/18/2	2010 10:26:01 AM	Inspector:	JCW	Inspection Type	: Ongoing	Previous Rainfall (hrs): 72+
Flow Descr Submerged:	•	nerged, indetermina Depth (in):			y submerged and Dutfall screened ι	d not physically upstream at 03-22		
Illicit Disch Floatables: Odor:	None None	☐ Pe	troleum Sheen tural Sheen troleum	_	e Solid Was	Office Follow-up Other ste/Debris Chlorine	Photo Not A	
	None		C/Solvent	☐ Fishy	, = ,	Sour Other	_Submer	ged.jpg
Color:	None					Г	-Sampling Results	
Vegetation: Benthic Gro	None wth: None			xcessive rown	Orange	Other	Sample Location: Sample ID: Time Collected:	
Stains:	None Condition Asse		w Line	oil aint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field):	ppm ppm ppm
Graffiti: Erosion: Depositio	None None n: None	Depth (in):					Ammonia (field): pH (field): Temperature:	ppm units °F
Damage:	None	☐ Displacement [☐ Corrosion [Undercut Concrete Da		shed		Detergents: Phenol:	mg/L mg/L

Outfall ID: 03-22

Inspection	Date: 9/10/2	2009 In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs): 72+	
Flow Descr Submerged	•	nerged, indeterminate Depth (in):	Notes:					
	None		um Shee Sheen		Follow-up (Office Follow-up Other e/Debris	Photo Not Available Submerged Outfall	
Odor:	None	☐ Petrole☐ VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity:	None					Other	_Submerged.jpg	
Color: Vegetation: Benthic Gro Stains:	None None None	☐ Inhibite☐ ☐ Green☐ ☐ Flow Li		Excessive Brown	☐ Orange ☐ C	ther	Sampling Results Sample Location: Sample ID: Time Collected:	
	Condition Asse None None on: None	Depth (in):	_	Paint [Other		Total Chlorine (field): ppm Free Chlorine (field): ppm Total Copper (field): ppm Ammonia (field): ppm pH (field): units Temperature: %F Detergents: mg/L Phenol: mg/L	

Outfall ID: 03-22 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08: 18: 2019-10:24

o20100818102402.JPG

Outfall Notes:

Upstream catchbasin located approx 55 ft S of outfall 03-22. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 471,694 Northing: 737,235 Easting: 792,376 Easting: 2,352,478



Inspection	Date:	8/18/2010 10:29:5	9 AM Ins	pector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci	ription:	Submerged, inde	terminate	Notes:	Severe flo	oatable debris in ca	atchbasin.		A STATE OF
Submerged	: Fully	Depth (in): 44						
Illicit Disch	arge Pot	tential: Potential	_		Field	Follow-up	Office Follow-up		
Floatables:	Severe		Petroleu Natural		n 🗌 Suds Alga	=	Other te/Debris		
Odor:	None		Petroleu VOC/So		☐ Must	, = 0	Chlorine Sour	W.	2010 10724
Turbidity:	None						Other	o20100818102	?410.JPG
Color:	Faint in	bottle	Brown				ſ	-Sampling Results	
Vegetation:	N	lone	Inhibited	d 🗌 E	Excessive			Sample Location: Pool Sample ID: 100	I 818-83
Benthic Gro	wth:	lone	Green	I	Brown	Orange C	Other	Time Collected: 103	
Stains:	N	lone	☐ Flow Lin		Oil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i>
-Physical	Condition	n Assessment						Total Copper (field):	0 ppm 0 ppm
Graffiti:	Non							Ammonia (field):	0 ppm
Erosion:	Non	-						pH (field):	7.38 <i>units</i>
Deposition		/ /						Temperature:	76 °F
Damage:	: Non	Displace		ndercut oncrete [ushed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 03-22 US1

Inspection	Date: 9/10	0/2009 In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged:	•	bmerged, indeterminate Depth (in): 44	Notes:		detergent analysis Significant floatal			
Illicit Disch	arge Potent	ial: Potential		Field	Follow-up (Office Follow-up		
Floatables:	Severe	Petrole Natural	um Sheer Sheen	Suds Algae	☐ Sewage ✓ Solid Wast	Other e/Debris		
Odor:	None	Petrole VOC/S	-	☐ Musty ☐ Fishy		Chlorine Sour		09-16-2000-09:49
Turbidity:	None					Other	Osh09_DSCN	6768.JPG
Color:	None					Γ	-Sampling Results	
Vegetation:	None wth: None		_	Excessive Brown [Orange D	other	Sample Location: Pool Sample ID: 090 Time Collected: 095	910-09
Stains:	None	Corrosi		Dil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
Graffiti: Erosion: Depositio Damage:	Condition As None None n: None None	Depth (in): 0	Indercut	☐ Crus	shed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	0 ppm ppm 8.3 units 75 °F 0 mg/L
		Corrosion C	Concrete D	amage			Phenol:	0 mg/L

Outfall ID: 03-35

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 30 Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.18, 2010-0g-22

o20100818092204.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,413 Northing: 736,966 Easting: 793,066 Easting: 2,353,173





Inspection	Date:	8/18/2010 9:27:46	AM In	spector:	JCW	Inspection	Type:	Ongoing	Р	revious Rainfall (hrs):	72+
Flow Descr Submerged	: Fully	Depth (in)		Notes:		, ,		not physically estream at 03-35			
Illicit Disch		otential: Potential		um Sheen Sheen			age	Office Follow-up Other e/Debris		Photo Not Av Submerged Ou	
Odor:	None		Petrole VOC/S	-	☐ Must	, <u> </u>	Ū	Chlorine Sour			
Turbidity:	None							Other		_Submerged. _j	ipg
Color:	None								Sa	mpling Results ———	
Vegetation: Benthic Gro	L	None None	☐ Inhibite	_	xcessive rown	Orange	□ 0	ther	Sa	imple Location: imple ID: ne Collected:	
Stains: — Physical	L	None n Assessment	Flow Li		oil aint	Rust Sta	ins		Fr	tal Chlorine (field):	ppm ppm
Graffiti: Erosion: Depositio Damage:		ne Depth (in):		ndercut oncrete D		ıshed			Ar pH Te	tal Copper (field): nmonia (field): I (field): mperature: stergents: lenol:	ppm ppm units F mg/L mg/L

Outfall ID: 03-35

Inspection	Date: 9/10/	2009 Ir	spector:	JCW	Inspection T	уре:	Initial	Р	revious Rainfall (hrs):	72+
Flow Descri	•	merged, indeterminate Depth (in):		,	U		ot physically stream at 03-35			
Illicit Discha	None	Petrole	eum Sheen I Sheen		Follow-up Sewa	ıge	ffice Follow-up Other Debris		Photo Not Av Submerged Ou	
Odor:	None	Petrole VOC/S	-	☐ Musty	Sewa	•	☐ Chlorine			
Turbidity:	None						Other		_Submerged.j	ipg
Color:	None								mpling Results	
Vegetation:	None	Inhibite	ed 🗌 E	xcessive					imple Location: imple ID:	
Benthic Grov	wth: None	Green	□В	Brown	Orange	Ot	her		me Collected:	
Stains: - Physical Graffiti: Erosion: Deposition	None Condition Asso None None None n: None	Flow L Corros essment Depth (in):		oil [raint [Rust Stair Other	ns		Fro To An ph	tal Chlorine (field): ee Chlorine (field): tal Copper (field): nmonia (field): I (field):	ppm ppm ppm ppm units &
Damage:		Displacement U	Indercut Concrete Da	Crus amage	shed			De	mperature: etergents: enol:	mg/L mg/L

Outfall ID: 03-35 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

OS 18 2010 CB 2

o20100818092258.JPG

Outfall Notes:

Upstream manhole located approx 20 ft WSW of outfall 03-35. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 471,408 Northing: 736,962 Easting: 793,047 Easting: 2,353,154



Inspection	Date:	8/18/2010 9:32:06	AM In	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci	ription:	Submerged, inde	terminate	Notes:	Severe flo	atable debris in ca	tchbasin.		
Submerged	: Fully	Depth (in): 34						
Illicit Disch	arge Po	tential: Potentia	I		Field	Follow-up	Office Follow-up		
Floatables:	Severe			um Shee Sheen	n 🗌 Suds		Other		
Odor:	Faint		Petrole VOC/S	-	☐ Musty		Chlorine Sour		Gurar torn by Za
Turbidity:	None						Other	o2010081809	2304.JPG
Color:	Faint in	bottle	Brown				ſ	-Sampling Results	
Vegetation:	1	None	Inhibite	ed 🔲	Excessive			Sample Location: Pool Sample ID: 100	ol 0818-77
Benthic Gro	wth:	None	Green		Brown [Orange C	Other	Time Collected: 093	
Stains:	1	None	☐ Flow Li		Oil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
-Physical	Conditio	n Assessment —						Total Copper (field):	0 <i>ppm</i>
Graffiti:	No							Ammonia (field):	0.5 <i>ppm</i>
Erosion:	No.	_						pH (field):	7.46 <i>units</i>
Deposition Damage:		_ ' ' '						Temperature:	73 °F
Damaye.	INO	Displace		Indercut Concrete [shed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 03-35 US1

Inspection D	ate: 9/10/2009	Inspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descrip Submerged:	Fully Depth (in)			etergent analysis Significant floatab		16	
Illicit Dischai	rge Potential: Potential		Field Fe	ollow-up 🗌 C	Office Follow-up		
Floatables: S	Severe	☐ Petroleum Shee☐ Natural Sheen	n	☐ Sewage ✓ Solid Wast	Other e/Debris		
Odor:	None	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09.10.2009 09:24
Turbidity:	None				Other	Osh09_DSCN	16763.JPG
Color:	None					Sampling Results	
Vegetation: Benthic Grow	None th: None		Excessive Brown] Orange 🔲 O	ther	Sample Location: Pool Sample ID: 090 Time Collected: 092	910-68
Stains:	None		Oil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
Graffiti: Erosion: Deposition: Damage:	None None None None None Depth (in): None Displace	ement Undercut	☐ Crush Damage	ned		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm ppm 8.23 units 73 °F 0 mg/L 0 mg/L

Outfall ID: 03-81

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Cast Iron

Dimensions

Diameter (in): Height/Depth (in): 24

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100818083116.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates:

State Plane Coordinates:

736,282

2,354,143

Northing: 470,711 Northing: Easting: 794,023 Easting:

Location Map



Inspection Date: 8/18/2010 8:38:23 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 03-81 Submerged: Fully Depth (in): Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-81

Inspection D	Date: 9/9/200)9 In	spector: J	JCW Ir	nspection Type:	Initial	Pr	evious Rainfall (hrs): 7	72+
Flow Descri Submerged:	•	erged, indeterminate Depth (in):	lo	,	submerged and tfall screened up	not physically ostream at 03-81			
Illicit Discha	arge Potential:	Obvious		Field Fo	ollow-up (Office Follow-up	_	Photo Not Av	ailable
Floatables:	None		um Sheen I Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		Submerged Ou	
Odor:	None	☐ Petrole ☐ VOC/S	-	☐ Musty	Sewage Sulfur	Chlorine Sour			
Turbidity:	None					Other		_Submerged.j	ipg
Color:	None						-San	npling Results ———	
Vegetation:	None	Inhibite	ed Exc	cessive				mple Location:	
Benthic Grov	vth: None	Green	Bro	own _	Orange 🗌 C	ther		mple ID: ne Collected:	
Stains:	None	Flow Li			Rust Stains		Tot	al Chlorine (field):	ppm
— Physical C Graffiti: Erosion: Deposition Damage:	None None None None None None None	Depth (in):	Jndercut	☐ Crush	Other ned		Tot Am pH Tei De	ee Chlorine (field): cal Copper (field): nmonia (field): (field): mperature: tergents: enol:	ppm ppm ppm units ℉ mg/L mg/L

Outfall ID: 03-81 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08-18-2010 Dataes

o20100818083944.JPG

Outfall Notes:

Upstream manhole located approx 115 ft SSW of outfall 03-81. Located behind railroad control shed. Intermediate area consists of open space, street right-of-way and railroad right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 470,599 Northing: 736,170 Easting: 793,998 Easting: 2,354,119

Location Map



Inspection	Date:	8/18/2010 8:43:09	AM In	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci Submerged	•	Submerged, inde		Notes:		n odor likely from re n in pipes after 2009			
Illicit Disch			1	um Shee	_	_ ' _	Office Follow-up		
i loutubles.	Wood	uto		Sheen	Alga				
Odor:	Faint		✓ Petrole VOC/S	-	☐ Must	, = 0	Chlorine Sour		08.18.2019 05.558
Turbidity:	None						Other	o20100818083	8958.JPG
Color:	None							-Sampling Results	
Vegetation:		None	Inhibite	ed 🔲 l	Excessive			Sample Location: Poo	
Benthic Gro	wth:	None	Green		Brown	Orange C	ther	Sample ID: 1008 Time Collected: 084	818-78 4
Stains:		Moderate	Flow Li		Oil Paint	Rust Stains Other		Total Chlorine (field):	0 ppm
		on Assessment —	Corros	lon r	raini	Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti:		one						Ammonia (field):	0 ppm
Erosion:		one Depth (in):						pH (field):	6.63 units
Deposition Damage:		200 —						Temperature:	71 °F
Damaye.	·	Displac	_	Indercut Concrete [ushed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 03-81 US1

Inspection	Date: 9/9/2009	Inspector:	JCW Inspe	ection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Desci	ription: Submerged, inde		Diesel/oil odor, s with grease. Bro		face. Floatables or.		
Illicit Disch	narge Potential: Obvious		Field Follow	v-up 🗌 (Office Follow-up		
Floatables:	Severe	✓ Petroleum Sheer ☐ Natural Sheen	n ☐ Suds ☐ ☐ Algae ✔] Sewage] Solid Wast	Other		
Odor:	Easily detected	✓ Petroleum✓ VOC/Solvent	☐ Musty ☐ ☐ Fishy ☐] Sewage] Sulfur	Chlorine Sour		09.09-2009 14:14
Turbidity:	None				Other	Osh09_DSCN6	747.JPG
Color:	Faint in bottle	Gray			Г	Sampling Results ———	
Vegetation:			Excessive	ange \Box O	other	•	909-66
Stains:	None	Flow Line	_	st Stains		Time Collected: 1415 Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti: Erosion: Deposition Damage:	1 ()	ement Undercut	☐ Crushed Damage			Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm ppm 6.98 units 73 °F 0 mg/L 0 mg/L

Outfall ID: 03-119

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 13

Width (in): 22

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

03.13.2010 07:25

o20100818072558.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 469,179 Northing: 734,748 Easting: 793,881 Easting: 2,354,028





Inspection	Date: 8/1	8/2010 7:32:47 AM	Inspector:	JCW I	nspection Type:	Ongoing	Previous Rainfall (hrs	s): 72+
Flow Desci Submerged	•	bmerged, indeterminate Depth (in):	Notes:	,	submerged and utfall screened up	, , ,		
Floatables:		Petro	leum Sheen al Sheen	Suds Algae	Sewage Solid Wasi		Photo Not Submerge	
Odor:	None	Petro	leum Solvent	☐ Musty☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour☐ Other	Subme	argad ing
Turbidity:	None					Other	_Subme	erged.jpg
Color:	None						-Sampling Results	
Vegetation:				Excessive	Orange C)ther	Sample Location: Sample ID: Time Collected:	
Stains: - Physical Graffiti: Erosion: Deposition Damage:		Ssessment Corro		oil Paint Crust amage	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units F mg/L mg/L

Outfall ID: 03-119

Inspection Date:	9 / 9 / 2009 Ir	spector: JCW	Inspection Type:	Initial	Previous Rainfall (hrs): 7	2+
Flow Description:	Submerged, indeterminate	Notes:				
Submerged: Fully	Depth (in):					
Illicit Discharge Pot	ential: Unlikely	Field	Follow-up	Office Follow-up	Photo Not Ava	ailahla
Floatables:		eum Sheen		Other e/Debris	Submerged Ou	
Odor:	Petrole VOC/S	_	, <u> </u>	☐ Chlorine ☐ Sour		
Turbidity:				Other	_Submerged.jp	og
Color:					Sampling Results ————	
Vegetation:	Inhibite	ed Excessive			Sample Location:	
		_			Sample ID:	
Benthic Growth:	Green	Brown	☐ Orange ☐ C	ther	Time Collected:	
Stains:	Flow L	- = -	Rust Stains		Total Chlorine (field):	ppm
⊢ Physical Condition	Assessment Corros	ion	Other		Free Chlorine (field):	ppm
Graffiti: Non					Total Copper (field):	ppm
Erosion: Non	•				Ammonia (field):	ppm
Deposition:	Depth (in):				pH (field):	units
Damage: Non					Temperature:	°F
Damage. Non	Displacement C		ished		Detergents:	mg/L
	Corrosion C	Concrete Damage			Phenol:	mg/L

Outfall ID: 03-119 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 07:29

o20100818072934.JPG

Outfall Notes:

Upstream manhole located approx 245 ft WSW of outfall 03-119. Intermediate area consists of street right-of-way and paved parking area with no observed inlets.

County Coordinates: State Plane Coordinates:

Northing: 469,098 Northing: 734,663 Easting: 793,672 Easting: 2,353,820

Location Map



Inspection	Date:	8/18/2010 7:36:59	AM In	spector:	JCW	Inspection Type	: Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, inde	terminate	Notes:					S. S
Submerged	: Fully	Depth (in): 29						
Illicit Disch	arge Po	otential: Unlikely			Field	Follow-up	Office Follow-up		
Floatables:	Slight		☐ Petrole ✓ Natural	um Sheer Sheen	n 🗌 Suds 🗌 Algae	Sewage ✓ Solid Wa	Other ote/Debris		- //
Odor:	Faint		Petrole VOC/S	-	☐ Musty ☐ Fishy	☐ Sewage ✓ Sulfur	Chlorine Sour		18 2010 07:29
Turbidity:	None						Other	020100818072	?942.JPG
Color:	Faint ir	bottle	Brown					Sampling Results	
Vegetation:		None	Inhibite	d 🗌 E	Excessive			Sample Location: Poo	
Benthic Gro	wth:	None	Green	E	Brown [Orange	Other	Sample ID: 100 Time Collected: 073	818-80 8
Stains:		None	Flow Li		Dil [Rust Stains		Total Chlorine (field):	0 <i>ppm</i>
- Physical	Conditio	on Assessment —	Corrosi	on 🗌 F	Paint	Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti:	No	_						Ammonia (field):	0.5 <i>ppm</i>
Erosion:	No							pH (field):	7.06 <i>units</i>
Depositio		-1 ()						Temperature:	71 %F
Damage:	No	ne Displace		Indercut Concrete D	Crus	shed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>
			J.,	on lorote L	amage			i ilolioi.	5 mg/L

Outfall ID: 03-119 US1

Inspection I	Date:	9/9/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descri	iption:	Submerged, inde	terminate	Notes:					and the second
Submerged:	Fully	Depth (in): 27					7/1/	
Illicit Discha	arge P	otential: Unlikely			Field	Follow-up	Office Follow-up		
Floatables:	None			um Shee Sheen	n 🗌 Suds 🗌 Algae		Other te/Debris	11 6.	
Odor:	None		Petrole VOC/S	-	☐ Must	, <u> </u>	☐ Chlorine☐ Sour		09.09.2009 7.25
Turbidity:	None						Other	Osh09_DSCN6	6743.JPG
Color:	None							-Sampling Results	
Vegetation:		None	Inhibite	d 🔲 I	Excessive			Sample Location: Poo	I
Benthic Grov	wth:	None	Green		Brown	Orange C	Other	Sample ID: 0909 Time Collected: 1409	909-63
Stains:		None	Flow Li		Oil [Rust Stains		Total Chlorine (field):	0 ppm
— Physical (Graffiti: Erosion: Deposition Damage:	No No n: No	on Assessment one one one one One One Openth (in):	ement 🔲 U	Indercut		Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	0 ppm 0 ppm ppm 7.87 units 76 °F 0 mg/L
		Corrosi	on 🔲 C	Concrete [Damage			Phenol:	0 mg/L

Outfall ID: 03-173

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 36 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100817135838.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

468,018 733,576 Northing: Northing: 2,353,446 Easting: 793,278 Easting:



Location Map



8/17/2010 2:04:29 PM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 03-Submerged: Fully Depth (in): 173 US2. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-173 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

o20100817135848.JPG

Outfall Notes:

Upstream manhole located approx 18 ft W of outfall 03-173. Intermediate area consists of shoreline. Bolted lid - could not access.

County Coordinates: State Plane Coordinates:

Northing: 468,023 Northing: 733,580 Easting: 793,260 Easting: 2,353,428

Location Map



Inspection Date: 8/17/2010 2:07:11 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Lid bolts rusted tight - could not access. Screened upstream at 03-173 US2. Submerged: Fully Depth (in): Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Petroleum Sheen Floatables: None Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100817135854.JPG Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: Moderate Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-173 US2

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.17.2010 14:04

o20100817140458.JPG

Outfall Notes:

Upstream manhole located approx 113 ft W of outfall 03-173. Intermediate area consists of shoreline, railroad right-of-way and paved parking area

County Coordinates: State Plane Coordinates:

Northing: 468,043 Northing: 733,599 Easting: 793,166 Easting: 2,353,334

Location Map



JCW Inspection Date: 8/17/2010 2:11:27 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Floatable debris in manhole. Submerged: Fully Depth (in): 42 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100817140504.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-23 Benthic Growth: None Orange Other Green Brown Time Collected: 1410 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.69 units Deposition: None Depth (in): 77 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 03-293

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 40

Width (in): 58

Mapping Precison:

Mapping GPS

☐ Not Physically Located

17. 201

o20100817145412.JPG

Outfall Notes:

Outfall partially submerged. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 468,709 Northing: 734,272 Easting: 793,582 Easting: 2,353,737

Location Map



Inspection	Date: 8/17/	2010 3:02:36 PM	nspector:	JCW Ir	nspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descri Submerged	•	nerged, indeterminate Depth (in): 38	Notes:		ally submerged. 03-293 US1.	Outfall screened		
Illicit Disch	arge Potentia	I: Unlikely		Field Fo	ollow-up	Office Follow-up		
Floatables:	None		eum Sheen I Sheen	Suds Algae	Sewage Solid Was	Other te/Debris		
Odor:	None	Petrole	eum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		
Turbidity:	None					Other	o20100817145 ₄	430.JPG
Color:	None					Г	Sampling Results ———	
Vegetation:	None	Inhibite	ed 🗌 E	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth: None	Green		Brown _	Orange 🗌 C	Other	Time Collected:	
Stains:	None	☐ Flow L		DilPaint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
	Condition Asse	essment ————					Total Copper (field):	ррт
Graffiti: Erosion:	None None						Ammonia (field):	ppm
Depositio		Depth (in):					pH (field):	units °F
Damage:		Displacement U	Jndercut Concrete D	☐ Crush amage	ned		Temperature: Detergents: Phenol:	mg/L mg/L

Outfall ID: 03-293

Inspection	Date:	9/9/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	Submerged, inde		Notes:		ially submerged. at 03-293 US1.	Outfall screened		
Illicit Disch	arge P	otential: Potentia	l	L	Field F	Follow-up	Office Follow-up		
Floatables:	None		Petrole Natural	um Sheer Sheen	n ☐ Suds ✔ Algae	Sewage Solid Wast	Other te/Debris		
Odor:	None		Petrole VOC/S		☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		00.00.2000 18:20
Turbidity:	None						Other	Osh09_DSCN6	736.JPG
Color:	None							-Sampling Results	
Vegetation:		None	Inhibite	d 🗌 E	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth:	Slight	✓ Green	E	Brown	Orange C	Other	Time Collected:	
Stains:		None	Flow Li		Oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
		on Assessment —						Total Copper (field):	ррт
Graffiti:		one						Ammonia (field):	ррт
Erosion:		one Denth (in)	0					pH (field):	units
Depositio Damage:		one Depth (in):	_					Temperature:	F
Damage.	IVII	☐ Displac ☐ Corrosi	_	ndercut oncrete D	☐ Crus)amage	shed		Detergents: Phenol:	mg/L mg/L

Outfall ID: 03-293 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.17.2010 14:57

o20100817145756.JPG

Outfall Notes:

Upstream manhole located approx 51 ft NW of outfall 03-293. Intermediate area consists of vegetated roadside shoulder.

County Coordinates: State Plane Coordinates:

Northing: 468,744 Northing: 734,307 Easting: 793,545 Easting: 2,353,700

Location Map



Inspection	Date:	8/17/2010 3:05:51 PM	Inspector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, indetermi	nate Notes:				W. J. A. Commission	
Submerged	: Fully	Depth (in): 36	6				(h)	All I
Illicit Disch	arge Pot	ential: Unlikely		Field	Follow-up	Office Follow-up		
Floatables:	Slight		Petroleum Shee Natural Sheen	n 🗌 Suds 🗌 Algae	Sewage Solid Wast	Other		
Odor:	None		Petroleum /OC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		08.17.2010 14:58
Turbidity:	None					Other	o20100817145	804.JPG
Color:	None					Γ	-Sampling Results	
Vegetation:	No	one 🔲 🗀 I	nhibited 🔲 I	Excessive			Sample Location: Pool Sample ID: 1008	317-04
Benthic Gro	wth: No	one	Green 🔲 I	Brown [Orange C	ther	Time Collected: 1506	5
Stains:	No			Oil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
-Physical	Condition	Assessment -					Total Copper (field):	0 ppm
Graffiti:	None						Ammonia (field):	0 ppm
Erosion:	None						pH (field):	7.39 <i>units</i>
Depositio		•		_			Temperature:	76 <i>°</i> F
Damage:	None	Displacemen Corrosion	t Undercut Concrete [Crus	shed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 03-293 US1

Inspection	Date:	9/9/2009	Ins	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Desci	ription	Submerged, inde	terminate	Notes:	Abnormal	detergent analysis	result (bubbles)		
Submerged	: Part	ally Depth (in):						2011年
Illicit Disch	arge P	otential: Potentia	I		Field	Follow-up	Office Follow-up		
Floatables:	None		Petrole	um Shee Sheen	n ☐ Suds ✔ Algae		Other e/Debris		
Odor:	None		Petrole		☐ Must	, <u> </u>	☐ Chlorine ☐ Sour	1	09.09.2009 13:21
Turbidity:	None						Other	Osh09_DSCN6	739.JPG
Color:	None							Sampling Results ———	
Vegetation:		None	Inhibite	d 🔲 I	Excessive			Sample Location: Pool	
Benthic Gro	wth:	None	Green		Brown [Orange O	other	Sample ID: 0909 Time Collected: 1325	909-62
Stains:		None	Flow Lir		Oil [Rust Stains		Total Chlorine (field):	0 ppm
Physical Graffiti: Erosion: Depositio Damage:	N N on: N	on Assessment — one one one one Depth (in): one Displac	ement U	ndercut		Other shed		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 7.82 units 78 °F 0 mg/L 0 mg/L

Outfall ID: 03-306

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 27 Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100817142148.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

468,393 733,954 Northing: Northing: Easting: 793,444 Easting: 2,353,605



F 014TH (FOURTEENTH) AV (FIFTEENTH)

Location Map

8/17/2010 2:28:30 PM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 03-Submerged: Fully Depth (in): 306 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-306 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

Q15 08.17.2010 14:23

o20100817142352.JPG

Outfall Notes:

Upstream manhole located approx 63 ft W of outfall 03-306. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 468,396 Northing: 733,956 Easting: 793,380 Easting: 2,353,541

Location Map



Inspection Date: 8/17/2010 2:28:30 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Broken manhole rings allow materials to enter manhole below casting. Submerged: Partially Depth (in): 13 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Petroleum Sheen Floatables: None Suds Sewage Other Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100817142402.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100817-65 Benthic Growth: Orange Other None Green Brown Time Collected: 1432 Stains: Slight ✓ Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.55 units Deposition: None Depth (in): 76 °F Temperature: Damage: Minor Displacement Undercut Crushed Detergents: 0 mg/LCorrosion ✓ Concrete Damage Phenol: 0 mg/L

Outfall ID: 03-379

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Manhole - concrete

Dimensions

Diameter (in): 10 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100818090718.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

471,196 736,756 Northing: Northing: 2,353,534 Easting: 793,423 Easting:

08-100* 009TH (NINTH) AVE

Location Map

Inspection Date: 8/18/2010 9:16:18 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 03-Submerged: Fully Depth (in): 379 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Suds Floatables: None Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-379 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08_18.2010 09:11

o20100818091108.JPG

Outfall Notes:

Upstream curb inlet located approx 39 ft SW of outfall 03-379. Intermediate area consists of open space and street right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 471,164 Northing: 736,724 Easting: 793,401 Easting: 2,353,512

Location Map



8/18/2010 9:18:35 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 25 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Petroleum Sheen Floatables: Slight Suds Sewage Other ✓ Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100818091114.JPG Turbidity: None Yellow Color: Faint in bottle Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100818-85 Benthic Growth: None Orange Other Green Brown Time Collected: 0920 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.37 units Deposition: None Depth (in): 76 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 03-381

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Basin Name:

South Main St

Dimensions

Diameter (in): 10
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



o20100818085058.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 470,924 Northing: 736,490 Easting: 793,775 Easting: 2,353,891

08-271 US1 08-271 US1 08-65 US1 08-6

Location Map

Inspection Date: 8/18/2010 8:59:26 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 03-Submerged: Fully Depth (in): 381 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Other Suds Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: None Benthic Growth: Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-381 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 08:51

o20100818085116.JPG

Outfall Notes:

Upstream curb inlet located approx 21ft SW of outfall 03-381. Intermediate area consists of open space and street right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 470,910 Northing: 736,476 Easting: 793,760 Easting: 2,353,876

Location Map



Inspection Date: 8/18/2010 9:03:59 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Floating debris, slight oil sheen in manhole. Submerged: Fully Depth (in): 13 Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Floatables: Moderate ✓ Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Faint Petroleum Musty ✓ Sewage Chlorine Fishy Sulfur Sour Other o20100818085124.JPG Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100818-76 Benthic Growth: Orange Other None Green Brown Time Collected: 0903 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.13 units Deposition: None Depth (in): 72 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 03-382

Minor Outfall

Structure Type:

Open Channel Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100818081942.JPG

Outfall Notes:

Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 470,612 Northing: 736,185 Easting: 794,159 Easting: 2,354,281

08-55 US1 08-55 US1 08-55 US1 08-56 08-247 US1 08-347 08-381 US1 08-381 US1 08-381 US1 08-381 US1 08-381 US1 08-381 US1 08-382 US1 08-381 US1 08-381 US1 08-381 US1

Location Map

8/18/2010 8:25:27 AM **JCW** Inspection Date: Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Outfall partially submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 03-382 US1. Submerged: Partially Depth (in): 9 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour o20100818082054.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: Moderate **✓** Brown Orange Other ✓ Green Time Collected: Stains: Moderate Flow Line Oil Rust Stains Total Chlorine (field): ppm **✓** Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-382 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

o20100818082426.JPG

Outfall Notes:

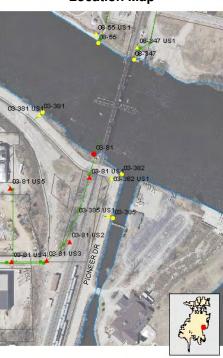
Upstream curb inlet located approx 57 ft WSW of outfall 03-382. Intermediate area consists of open space and street right-of-way.

County Coordinates: State Plane Coordinates:

736,165 Northing: 470,592 Northing: 2,354,229 Easting: 794,108 Easting:



Location Map



Inspection	Date: 8/18/2	010 8:34:04 AM	Inspector:	JCW I	nspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	iption: None		Notes:	Dry bottom.	Grass clipping I	ouild up.		
Submerged	: None	Depth (in):						
Illicit Disch	arge Potential:	Unlikely		Field F	ollow-up	Office Follow-up		F a
Floatables:	None		leum Sheer al Sheen	n	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petro	leum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		08.18-2010-08:24
Turbidity:	None					Other	o2010081808243	2.JPG
Color:	None						Sampling Results	
Vegetation:	None	Inhibi	ted 🗌 E	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth: None	Gree	1 <u> </u>	Brown _	Orange O	ther	Time Collected:	
Stains:	None Condition Asses	Flow Corro	_	Oil	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field):	ppm ppm
Graffiti: Erosion: Depositio	None None n: None	Depth (in):					Ammonia (field): pH (field):	ppm ppm units
Damage:		Displacement Corrosion	Undercut Concrete D	Crusi	hed		Temperature: Detergents: Phenol:	°F mg/L mg/L

Outfall ID: 03-385

Minor Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 10
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

ta 1530 ft 15

o20100818080500.JPG

Outfall Notes: Outfall fully submerged.

County Coordinates: State Plane Coordinates:

Northing: 470,400 Northing: 735,972 Easting: 794,112 Easting: 2,354,237

Location Map



Inspection	Date: 8/	18/2010 8:10:24 AM	nspector:	JCW Insp	ection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	Depth (in): 10	Notes:	Outfall fully sub upstream at 03-		tfall screened	***	2
Illicit Disch	arge Poter	ntial: Unlikely		Field Follo	w-up 🔲 (Office Follow-up	A Property	Jan Jan
Floatables:	None		eum Sheer al Sheen	n	Sewage Solid Wast	Other e/Debris		3203
Odor:	None	Petrol	eum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		
Turbidity:	None					Other	o20100818080s	520.JPG
Color:	None						-Sampling Results ———	
Vegetation:	Nor	ne	ed 🗌 E	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth: Nor	Green Green	E	Brown O	range 🗌 C	ther	Time Collected:	
Stains:	Nor	Corros			ust Stains ther		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Graffiti:	Condition A None None	ssessment —					Total Copper (field): Ammonia (field):	ppm ppm
Deposition Damage:	n: None		Undercut Concrete D	Crushed			pH (field): Temperature: Detergents: Phenol:	units °F mg/L mg/L

Outfall ID: 03-385 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 08:07

o20100818080722.JPG

Outfall Notes:

Upstream curb inlet located approx 22 ft WNW of outfall 03-385. Intermediate area consists of open space and street right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 470,408 Northing: 735,980 Easting: 794,090 Easting: 2,354,215

Location Map



Inspection Date: 8/18/2010 8:15:59 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: None Notes: Dry bottom. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine 08.18.2010 08:07 Fishy Sulfur Sour Other o20100818080728.JPG Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-387

Minor Outfall

Structure Type:Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 10 Height/Depth (in): Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100818074904.JPG

Outfall Notes:

Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 469,661 Northing: 735,229 Easting: 793,901 Easting: 2,354,040



JCW Inspection Date: 8/18/2010 7:55:48 AM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Outfall partially submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 03-387 US1. Submerged: Partially Depth (in): 3 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour o20100818074924.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: Moderate Orange Other Green **✓** Brown Time Collected: ✓ Flow Line Stains: Slight Oil Rust Stains Total Chlorine (field): ppm **✓** Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-387 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 07:53

o20100818075348.JPG

Outfall Notes:

Upstream curb inlet located approx 44 ft WSW of outfall 03-387. Intermediate area consists of open space and street right-of-way.

State Plane Coordinates: **County Coordinates:**

469,638 735,207 Northing: Northing: Easting: 793,862 Easting: 2,354,001



E 040TH ITENTH AVE

Location Map

Inspection Date: 8/18/2010 8:01:34 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: None Notes: Dry bottom. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine 08.18.2010 07:53 Fishy Sulfur Sour Other o20100818075356.JPG Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 03-392

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 10
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100817145038.JPG

Outfall Notes:

Discharge from single inlet. Directly above outfall 03-293.

County Coordinates: State Plane Coordinates:

Northing: 468,713 Northing: 734,276 Easting: 793,580 Easting: 2,353,735

Location Map



JCW Inspection Date: 8/17/2010 2:59:49 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: None Notes: Dry Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour Other o20100817145054.JPG Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Rust Stains Stains: None Flow Line Oil Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: Moderate Depth (in): 3 F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 05-14

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): Height/Depth (in): 30

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825142900.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 476,107 Northing: 741,573 Easting: 788,230 Easting: 2,348,253



8/25/2010 2:37:24 PM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 05-14 Submerged: Fully Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Other Suds Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 05-14

Inspection Dat	te: 9/9/2009 Ir	nspector: JCW Ins	spection Type:	Initial	Previous Rainfall (hrs): 72+	
Flow Descripti Submerged: F	ion: Submerged, indeterminate Fully Depth (in):	,	ubmerged and n fall screened ups	, , ,		
Illicit Discharg Floatables: No	one Petrole	Field Follows	Illow-up O	office Follow-up	Photo Not Avai	
Odor: No	one Petrole VOC/S	eum Musty	Sewage Sulfur	Chlorine Sour		
Turbidity: No	one			Other	_Submerged.jpg	
Color: No Vegetation:	None	ed Excessive			Sampling Results ————————————————————————————————————	
Benthic Growth	n: None Green	☐ Brown ☐	Orange	her	Sample ID: Time Collected:	
Stains: - Physical Cor Graffiti: Erosion: Deposition: Damage:			Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units °F mg/L mg/L

Outfall ID: 05-14 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

05 25.2010 14.38

o20100825143904.JPG

Outfall Notes:

Upstream manhole located approx 354 ft NE of outfall 05-14. Intermediate area consists of industrial parking area to north and institutional buildings to south.

County Coordinates: State Plane Coordinates:

Northing: 476,276 Northing: 741,747 Easting: 788,542 Easting: 2,348,562

Location Map



Inspection	Date:	8/25/2010 2:45:58	PM Inspector: JCW Inspection Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged, indet			eterminate Notes:	
Submerged	: Full	y Depth (in	n): 30	
Illicit Disch	arge F	Potential: Unlikely	☐ Field Follow-up ☐ Office Follow-up	
Floatables:	Slight		□ Petroleum Sheen □ Suds □ Sewage □ Other ☑ Natural Sheen □ Algae ☑ Solid Waste/Debris	63
Odor:	None		☐ Petroleum ☐ Musty ☐ Sewage ☐ Chlorine ☐ VOC/Solvent ☐ Fishy ☐ Sulfur ☐ Sour	38 25 26 14 32 39
Turbidity:	None		Other	o20100825143922.JPG
Color:	Faint	in bottle	Green	Sampling Results
Vegetation:		None	☐ Inhibited ☐ Excessive	Sample Location: Pool Sample ID: 100825-89
Benthic Gro	wth:	Slight	✓ Green ☐ Brown ☐ Orange ☐ Other	Time Collected: 1445
Stains:	0 "	Slight	✓ Flow Line □ Oil □ Rust Stains □ Corrosion □ Paint □ Other	Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm
Physical Condition Assessment —				Total Copper (field): 0 ppm
Graffiti: Erosion: Deposition Damage:	n: N	one Depth (in):		Ammonia (field): 0 ppm pH (field): 7.87 units Temperature: 75 °F
Damage.		Orie Displac Corrosi		Detergents: 0 mg/L Phenol: 0 mg/L

Outfall ID: 05-14 US1

Inspection	Date:	9/9/2009	Ins	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Desc	ription:	Submerged, inde	terminate	Notes:	Abnormal c	letergent analysis	result (bubbles)		
Submerged	l: Fully	Depth (ir): 27					Win /	
Illicit Disch	narge Po	otential: Potentia	I		Field F	Follow-up (Office Follow-up		
Floatables:	None		Petroleu Natural	um Sheer Sheen	n 🗌 Suds Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None		Petroleu		☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09.09.2009 10:11
Turbidity:	None						Other	Osh09_DSCN	6701.JPG
Color:	None							-Sampling Results ———	
Vegetation:		None	Inhibited	d 🗌 E	Excessive			Sample Location: Poo	
Benthic Gro	owth:	None	Green	E	Brown	Orange C	ther	Sample ID: 090 Time Collected: 101	909-59
Stains:		None	Flow Lir		Dil [Rust Stains		Total Chlorine (field):	0 ppm
Graffiti: Erosion: Depositio	No No on: No	ne Depth (in):	ement U	ndercut	Paint Crus	Otherhed		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 8.21 units 75 °F 0 mg/L 0 mg/L

Outfall ID: 05-155

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Vitrified Clay

Dimensions

Diameter (in): 24
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

28-201-09-0

o20100826090214.JPG

Outfall Notes:

Outfall fully submerged. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 476,506 Northing: 741,966 Easting: 787,956 Easting: 2,347,973

Location Map



Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/26/2010 9:11:00 AM **JCW** Fully submerged. Only vegetation in water is Flow Description: Submerged, indeterminate Notes: at end of pipe. Outfall screened upstream at Submerged: Fully Depth (in): 05-155 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Sewage Other **Submerged Outfall** Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Slight Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 05-155

Inspection	Date: 9/9	/ 2009 In	spector:	JCW Ir	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description Submerged	•	bmerged, indeterminate Depth (in): 27		•	submerged. Inconstream at water	•	92	
Illicit Discharge Potential: Unlikely				Field Fo	ollow-up 🗌 (Office Follow-up		
Floatables:	None		eum Sheen I Sheen	Suds Algae	Sewage Solid Wast	Other		
Odor:	None	Petrole	eum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09.09.2009 09:48
Turbidity:	None					Other	Osh09_DSCN6	691.JPG
Color:	None						Sampling Results ———	
Vegetation:				xcessive rown	Orange 🗌 C	Other	Sample Location: Sample ID: Time Collected:	
Stains:	None		_	_	Rust Stains		Total Chlorine (field):	ррт
Graffiti: Erosion: Depositic Damage:		Depth (in):	Jndercut Concrete Da	aint ∟ ☐ Crush amage	other ned		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units °F mg/L mg/L

Outfall ID: 05-155 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - brick

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

0812B 2010 09 15

o20100826091110.JPG

Outfall Notes:

Upstream manhole located approx 57 ft N of outfall 05-155. Intermediate area consists of open space on peninsula.

County Coordinates: State Plane Coordinates:

Northing: 476,556 Northing: 742,017 Easting: 787,980 Easting: 2,347,995

Location Map



Inspection Date: Inspection Type: Ongoing 8/26/2010 9:17:41 AM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 25 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine Fishy Sulfur Sour o20100826091148.JPG Other Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100826-54 Benthic Growth: Slight **✓** Brown Orange Other Green Time Collected: 0922 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.87 units Deposition: None Depth (in): 76 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 05-216

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 30 Height/Depth (in):

Width (in):

Mapping Precison:

✓ Not Physically Located

o20100826084708.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 477,353 Northing: 742,807 Easting: 787,572 Easting: 2,347,573



Inspection	Date: 8/2	26/2010 8:54:01 AM	nspector:	JCW II	nspection Type:	Ongoing	Pre	evious Rainfall (hrs):	72+
Flow Description Submerged	•	bmerged, indeterminate Depth (in):	Notes:	•	submerged and Itfall screened up				
Floatables:		Petroli	eum Sheen Il Sheen	Suds Algae	Sewage Solid Was			Photo Not Av Submerged O	
Odor:	None	Petrol	eum Solvent	☐ Musty☐ Fishy	Sewage Sulfur	Chlorine Sour			
Turbidity:	None					Other		_Submerged.	jpg
Color: Vegetation:	None	e	ed 🗌 E	excessive			Sar	npling Results ———— nple Location: nple ID:	
Benthic Gro	owth: Non	e Green	□ B	Brown	Orange C	Other		e Collected:	
Stains: —Physical Graffiti: Erosion: Deposition Damage:		Ssessment Corros Depth (in): Displacement		°aint] Rust Stains] Other		Fre Tot Am pH Ter Det	al Chlorine (field): e Chlorine (field): al Copper (field): monia (field): (field): nperature: ergents: enol:	ppm ppm ppm ppm units °F mg/L mg/L

Outfall ID: 05-216

Inspection	Date:	9/9/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs): 72+	
Flow Descr	iption	: Submerged, inde	terminate	Notes:					
Submerged	: Fully	Depth (in	ı):						
Illicit Disch	arge F	otential: Unlikely			Field	Follow-up	Office Follow-up	Photo Not Avail	lable
Floatables:	None		Petrole Natural	um Shee Sheen	n 🗌 Suds 🗌 Algae		Other te/Debris	Submerged Outfa	
Odor:	None		Petrole VOC/S	-	☐ Must	, = ,	Chlorine Sour		
Turbidity:	None						Other	_Submerged.jpg	
Color:	None							Sampling Results	
Vegetation:		None	Inhibite	d 🗌	Excessive			Sample Location:	
Benthic Gro	wth:	None	Green		Brown	Orange C	Other	Sample ID: Time Collected:	
Stains:		None	Flow Li	_	Oil	Rust Stains		Total Chlorine (field):	ppm
Physical	Condit	ion Assessment —	Corrosi	on 📋	Paint	Other			ppm ppm
Graffiti:	N	one							ppm
Erosion:		one						pH (field):	units
Depositio		one Depth (in):						Temperature:	F
Damage:	N	one Displac		Indercut	Cru	shed		Detergents:	mg/L
		Corrosi	on 🗌 C	oncrete I	Damage			Phenol:	mg/L

Outfall ID: 05-216 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08" 3 AL 58: A9

o20100826084958.JPG

Outfall Notes:

Upstream manhole located approx 85 ft NE of outfall 05-216. Intermediate area consists of unpaved parking area near industrial facility.

County Coordinates: State Plane Coordinates:

Northing: 477,395 Northing: 742,850 Easting: 787,646 Easting: 2,347,646



Inspection	Date: 8	8/26/2010 8:56:31	AM In	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci Submerged	•	Submerged, indet Depth (in)		Notes:					
Illicit Disch		ential: Unlikely			_	_ ' _	Office Follow-up		
Floatables:				um Shee Sheen	n				
Odor:	None		Petrole VOC/S	-	☐ Musty ☐ Fishy		Chlorine Sour		0 28 2/10 0
Turbidity:	Slight clo	oudiness					Other	o20100826085	016.JPG
Color:	Faint in b	oottle	Green					-Sampling Results	
Vegetation:	No	one	Inhibite	d 🔲 I	Excessive			Sample Location: Poo Sample ID: 100	l 826-77
Benthic Gro	owth: No	one	Green		Brown [Orange C	Other	Time Collected: 085	
Stains:	No	one	☐ Flow Li		Oil [Rust Stains		Total Chlorine (field):	0 ppm
- Physical	Condition None	Assessment —	Corrosi	on 🔲 l	Paint [Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Erosion:	None							Ammonia (field): pH (field):	0 ppm 7.51 units
Deposition	n: None	e Depth (in):						Temperature:	7.51 ums
Damage:	: None	Displace Corrosio		Indercut Concrete [shed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 05-216 US1

Inspection Date	e: 9/9/2009	Inspector:	JCW Ins	spection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description	on: Submerged, indet						
Illicit Discharge	e Potential: Unlikely		Field Fol	llow-up	Office Follow-up	157	
Floatables: Slig	ght	☐ Petroleum Sheer☐ Natural Sheen	Suds Algae	Sewage Solid Wast	✓ Other e/Debris		
Odor: No	ne	☐ Petroleum☐ VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09-09-2009-09-30
Turbidity: No	ne				Other	Osh09_DSCN6	687.JPG
Color: No	ne					Sampling Results	
Vegetation:	None	☐ Inhibited ☐ E	xcessive			Sample Location: Pool	909-61
Benthic Growth:	: None	☐ Green ☐ E	Brown	Orange 🗌 C	ther	Sample ID: 0909 Time Collected: 0930	
Stains:	None			Rust Stains		Total Chlorine (field):	0 ppm
Physical Con Graffiti: Erosion: Deposition: Damage:	None None None Depth (in): None Displace	0 ement Undercut	☐ Crushe	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 7.64 units 71 °F 0 mg/L 0 mg/L

Outfall ID: 05-241

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 18
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

98, 23, 2016, 14, 29

o20100825142910.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 476,100 Northing: 741,565 Easting: 788,232 Easting: 2,348,256

Location Map



Inspection Date: 8/25/2010 2:39:56 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 05-Submerged: Fully Depth (in): 241 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 05-241

Inspection	Date:	9/9/2009	Inspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs): 7	72+
	-	Submerged, indeterminat	e Notes:					
Submerged:	Fully	Depth (in):						
Illicit Disch	arge Pot	ential: Potential		Field F	ollow-up	Office Follow-up	Photo Not Av	ailable
Floatables:	None		oleum Sheer ural Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris	Submerged Ou	
Odor:	None		oleum C/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity:	None					Other	_Submerged.j	pg
Color:	None					Γ	-Sampling Results	
Vegetation:	N	one Inhi	oited	Excessive			Sample Location:	
Benthic Gro	wth: N	one Gre	 _n □ F	Brown	Orange C	Other	Sample ID:	
	_			_	_	ALI IOI	Time Collected:	
Stains:	Ν		_	Dil _	Rust Stains		Total Chlorine (field):	ppm
— Physical i	Condition	Assessment — Cor	rosion F	Paint _	Other		Free Chlorine (field):	ppm
1							Total Copper (field):	ppm
Graffiti:	Non	•					Ammonia (field):	ppm
Erosion:	Non						pH (field):	units
Depositio		()	_				Temperature:	F
Damage:	Non	Displacement	Undercut	Crus	hed		Detergents:	mg/L
		Corrosion	Concrete D	amage			Phenol:	mg/L

Outfall ID: 05-241 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

18 25 20 A 18 18

o20100825144300.JPG

Outfall Notes:

Upstream manhole located approx 365 ft NE of outfall 05-241. Intermediate area consists of industrial parking area to north and institutional buildings to south.

County Coordinates: State Plane Coordinates:

Northing: 476,280 Northing: 741,751 Easting: 788,549 Easting: 2,348,570



Inspection	Date:	8/25/2010 2:51:03	S PM Inspector:	JCW Inspe	ection Type:	Ongoing	Previous Rainfall (hrs):	72+
	•	Submerged, sligh		Most flow going (rather than to d		storm manhole		
Submerged	: Fully	Depth (in	i): 17	(ramor marrio c	Janany.			
Illicit Disch	arge Po	tential: Unlikely		Field Follo	w-up 🔲 (Office Follow-up		
Floatables:	Slight		Petroleum Shee Natural Sheen		Sewage Solid Wast	Other		
Odor:	None		Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour	1	35 25 2010 14 43
Turbidity:	None					Other	020100825144	1310.JPG
Color:	Faint in	bottle	Green				-Sampling Results	
Vegetation:	N	None	Inhibited	Excessive			Sample Location: Pool Sample ID: 100	l 825-82
Benthic Gro	wth: S	Slight	☐ Green	Brown 🗌 Oı	range 🗌 C	Other	Time Collected: 145	3
Stains:		None			ust Stains ther		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
'	Conditio	n Assessment —					Total Copper (field):	0 ppm
Graffiti:	Nor	_					Ammonia (field):	0 ppm
Erosion:	Nor	_					pH (field):	7.89 <i>units</i>
Depositio							Temperature:	74 °F
Damage:	Nor	ne Displace		Crushed Damage			Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 05-241 US1

Inspection	Date: 9	9/9/2009	Insp	ector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	Submerged, indetory Depth (in)		Notes:	Abnormal d	etergent analysis	s result (bubbles)		
Illicit Disch	arge Pote	ential: Potential			Field F	Follow-up	Office Follow-up		
Floatables:	None		Petroleun Natural S		Suds Algae	Sewage Solid Was	Other te/Debris	1	
Odor:	None		Petroleun VOC/Solv		☐ Musty	Sewage Sulfur	Chlorine Sour		09 09 2009 10 10
Turbidity:	None						Other	Osh09_DSCN6	6698.JPG
Color:	None							-Sampling Results	
Vegetation:	No	one	Inhibited	E	Excessive			Sample Location: Poo	
Benthic Gro	wth:	one	Green	E	Brown [Orange 🗌 C	Other	Sample ID: 0909 Time Collected: 101	909-60
Stains:	No	one	☐ Flow Line ☐ Corrosion		Dil □ Paint □	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
		Assessment						Total Copper (field):	0 ppm
Graffiti:	None							Ammonia (field):	ppm
Erosion: Depositio	None n: None		0					pH (field):	8.1 <i>units</i>
Deposition Damage:			_			ls a al		Temperature:	76 °F
Damage.	140110	Displace Corrosio		dercut ncrete D	☐ Crus amage	nea		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 05-264

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 36
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

✓ Not Physically Located

o20100826081814.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 478,464 Northing: 743,907 Easting: 786,975 Easting: 2,346,957

05-264 US105-264 W NEW YORK AVE 06-264-US2

Location Map

Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/26/2010 8:26:51 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 05-Submerged: Fully Depth (in): 264 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 05-264

Inspection Date: 9	/ 9/2009 In	spector: JCW	Inspection Type:	Initial	Previous Rainfall (hrs): 72	+
Flow Description: S Submerged: Fully	Submerged, indeterminate Depth (in):		lly submerged and of Outfall screened up			
Illicit Discharge Poter	ntial: Unlikely	Field	d Follow-up	Office Follow-up	Photo Not Ava	ilabla
Floatables: None		eum Sheen		Other	Submerged Out	
Odor: None	Petrole VOC/S		, = 0	☐ Chlorine ☐ Sour		
Turbidity: None				Other	_Submerged.jpg	1
Color: None				_	Sampling Results	
Vegetation: No	ne	ed Excessive			Sample Location: Sample ID:	
Benthic Growth: No	ne Green	Brown	Orange O	ther	Time Collected:	
Stains: No	Corros		Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Graffiti: None Erosion: None Deposition: None Damage: None	Depth (in):	Jndercut □ Cr	ushed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	ppm ppm units °F
		Concrete Damage	usilou		Phenol:	mg/L mg/L

Outfall ID: 05-264 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

West New York Ave

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100826081830.JPG

Outfall Notes:

Upstream manhole located approx 20 ft E of outfall 05-264. Intermediate area consists of open space.

County Coordinates:

State Plane Coordinates:

478,467 743,910 Northing: Northing: 2,346,975 Easting: 786,994 Easting:

Location Map



Inspection Date: 8/26/2010 8:30:37 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Smells like grass clippings. Submerged: Fully Depth (in): 38 Illicit Discharge Potential: Potential Field Follow-up Office Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100826081838.JPG ✓ Othe Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100826-24 Benthic Growth: Slight **✓** Brown Orange Other Green Time Collected 0830 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.75 units Deposition: None Depth (in): F Temperature: 75 Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 06-52

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100818124946.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

472,713 738,208 Northing: Northing: Easting: 789,812 Easting: 2,349,896



Location Map

Inspection Type: Ongoing Inspection Date: 8/18/2010 12:57:36 PM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 06-52 Submerged: Fully Depth (in): Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 06-52 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

08.18.2010 12.60

o20100818125006.JPG

Outfall Notes:

Upstream manhole located approx 34 ft SW of outfall 06-52. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 472,689 Northing: 738,183 Easting: 789,786 Easting: 2,349,871

Location Map



Inspection Date: 8/18/2010 1:00:07 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Significant floatable debris in manhole. Submerged: Fully Depth (in): 41 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Severe Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100818125018.JPG Other Turbidity: Slight cloudiness Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100818-89 Benthic Growth: None Orange Other Green Brown Time Collected: 1300 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.98 units Deposition: None Depth (in): 76 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 06-216

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Cast Iron

Dimensions

Diameter (in): 39
Height/Depth (in):
Width (in):

Mapping Precison:

✓ Not Physically Located

08. (8: 2016. 13. 47

o20100818134248.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 474,404 Northing: 739,876 Easting: 788,575 Easting: 2,348,629



Inspection	Date: 8/18/2	2010 1:49:03 PM	Inspector:	JCW	Inspection Typ	e: Ongoing	Previous	Rainfall (hrs):	72+
Flow Desci Submerged	•	nerged, indeterminate Depth (in):	Notes:		, ,	nd not physically d upstream at 06-			
Floatables:		Petro	oleum Sheen ral Sheen	Suds	e Solid W	aste/Debris		oto Not A Submerged C	
Odor: Turbidity:	None		oleum /Solvent	Must	, = .	Chlorine Sour Other		_Submerge	d.jpg
Color: Vegetation: Benthic Gro Stains:		☐ Inhib☐ ☐ Gree☐ ☐ Flow	n E	Excessive Brown	Orange Rust Stains	Other	Sampling I Sample Lo Sample IE Time Collo Total Chlo	ocation:):	ррт
Graffiti: Erosion: Depositio Damage:			Undercut Concrete D		Other			ure:	ppm ppm ppm units °F mg/L mg/L

Outfall ID: 06-216

Inspection	Date:	9/10/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, inde	terminate	Notes:					
Submerged	: Fully	Depth (in):						
Illicit Disch	arge Po	tential: Unlikely			Field	Follow-up 🔲 (Office Follow-up	Photo Not A	vailable
Floatables:	None		Petrole Natural	um Shee Sheen	n 🗌 Suds Algae	Sewage Solid Wast	Other e/Debris	Submerged C	
Odor:	None		☐ Petrole☐ VOC/S	-	☐ Musty ☐ Fishy		☐ Chlorine ☐ Sour		
Turbidity:	None						Other	_Submerged	d.jpg
Color:	None						Γ	-Sampling Results	
Vegetation:	Ī	None	☐ Inhibite	d 🗆 I	Excessive			Sample Location:	
	L			_	_			Sample ID:	
Benthic Gro	wth:	None	Green		Brown	Orange C	Other	Time Collected:	
Stains:	1	Vone	☐ Flow Li	ne 🗌 (Oil [Rust Stains		Total Chlorine (field):	ppm
Physical	Canditio	n Assessment —	Corrosi	on 🗌 I	Paint [Other		Free Chlorine (field):	ppm
'								Total Copper (field):	ppm
Graffiti:	No							Ammonia (field):	ppm
Erosion:	No							pH (field):	units
Depositio		- 1 ()						Temperature:	F
Damage:	No	ne 🗌 Displac	ement 🗌 U	Indercut	Crus	shed		Detergents:	mg/L
		Corrosi	on 🗌 C	oncrete [Damage			Phenol:	mg/L

Outfall ID: 06-216 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 13:47

o20100818134754.JPG

Outfall Notes:

Upstream manhole located approx 72 ft WSW of outfall 06-216. Intermediate area consists of open area east of multifamily residential units.

County Coordinates: State Plane Coordinates:

Northing: 474,371 Northing: 739,842 Easting: 788,512 Easting: 2,348,566



Inspection I	Date:	8/18/2010 1:54:02 PM	Inspector:	JCW I	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descri	iption:	Submerged, indetern	minate Notes:					
Submerged:	Fully	Depth (in):	108					
Illicit Discha	arge Pot	ential: Unlikely		Field F	Follow-up (Office Follow-up		为
Floatables:	Slight		Petroleum Sheer Natural Sheen	n	Sewage ✓ Solid Wast	Other		
Odor:	None		Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		48-18-270-13-18
Turbidity:	None					Other	020100818134	1806.JPG
Color:	None					Г	-Sampling Results	
Vegetation:	Ne	one] Inhibited E	Excessive			Sample Location: Poo Sample ID: 100	l 818-91
Benthic Grov	wth: N	one	Green E	Brown [Orange C	ther	Time Collected: 135	
Stains:	N	one		Oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Physical (Condition	Assessment -					Total Copper (field):	0 ppm
Graffiti:	None						Ammonia (field):	0 ppm
Erosion:	None n: None						pH (field):	6.94 <i>units</i>
Deposition Damage:	n. None	1 ()	ent Undercut	☐ Crus	hod		Temperature: Detergents:	83 °F 0 <i>mg/</i> L
		☐ Corrosion	Concrete D	_	neu		Phenol:	0 mg/L 0 mg/L

Outfall ID: 06-216 US1

Inspection D	ate: 9/10/2	009 Ir	spector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descrip Submerged:		erged, indeterminate Depth (in): 100	Notes:	River fly swa	arm inside manh	ole.		
Illicit Dischar	rge Potential:	: Unlikely		Field F	ollow-up	Office Follow-up		
Floatables: N	None		eum Sheer I Sheen	n ☐ Suds ☐ Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petrole	-	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		ob. (0.2009 12-39
Turbidity:	None					Other	Osh09_DSCN6	6788.JPG
Color:	None					Γ	Sampling Results	
Vegetation:	None	Inhibite	ed 🗌 E	Excessive			Sample Location: Poo Sample ID: 0909	I 910-01
Benthic Grow	rth: None	Green	E	Brown	Orange C	other	Time Collected: 1240	
Stains:	None	☐ Flow L		Dil Paint	Rust Stains Other		Total Chlorine (field):	0 ppm
Physical Co	ondition Asses		1011 F	aiii _	Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti:	None						Ammonia (field):	ppm
Erosion:	None						pH (field):	6.96 <i>units</i>
Deposition:		Depth (in): 0					Temperature:	79 <i>°</i> F
Damage:	None		Jndercut Concrete D	Crush	ned		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 06-221

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Width (iii).

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100818142820.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 474,575 Northing: 740,036 Easting: 787,954 Easting: 2,348,005

Location Map

Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/18/2010 2:38:53 PM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 06-Submerged: Fully Depth (in): 221 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Sewage Other **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 06-221 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 14:88

o20100818143346.JPG

Outfall Notes:

Upstream manhole located approx 25 ft SSW of outfall 06-221. Intermediate area consists of open space. 1.5" hose through side of manhole - tied around steps

County Coordinates: State Plane Coordinates:

Northing: 474,552 Northing: 740,013 Easting: 787,942 Easting: 2,347,993

Location Map



Inspection Date: 8/18/2010 2	:43:51 PM Inspector:	JCW Inspe	ction Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Description: Submerged Submerged: Fully De	, indeterminate Notes: pth (in): 36	Torn paper and omanhole.	other floatab	le debris in		
	tential	Field Follow	<i>y</i> -up	Office Follow-up		
Floatables: Moderate	Petroleum Shee Natural Sheen		Sewage Solid Wast	Other	115	
Odor: None	Petroleum VOC/Solvent	☐ Musty ☐ ☐ Fishy ☐	Sewage Sulfur	☐ Chlorine☐ Sour		08.18.2010 14:33
Turbidity: None				Other	020100818143	354.JPG
Color: None					-Sampling Results	
Vegetation: None	☐ Inhibited ☐	Excessive			Sample Location: Poo	
Benthic Growth: None	Green	Brown 🗌 Ora	ange 🗌 O	ther	Sample ID: 1008 Time Collected: 1448	318-79 5
Stains: None			st Stains		Total Chlorine (field):	0 ppm
Physical Condition Assessmen Graffiti: None		Paint	ner		Free Chlorine (field): Total Copper (field): Ammonia (field):	0 ppm 0 ppm 0 ppm
Damage: None	h (in): isplacement Undercut orrosion Concrete I	Crushed			pH (field): Temperature: Detergents: Phenol:	7.21 units 79 °F 0 mg/L 0 mg/L

Outfall ID: 06-253

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 34

Width (in): 53

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08. Ta. 2010, 13: 42

o20100818134248.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 474,389 Northing: 739,861 Easting: 788,576 Easting: 2,348,630



Inspection Date: 8/18/2010 1:51:34 PM	Inspector: Jo	CW Inspec	tion Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Description: Submerged, indeterminate Submerged: Fully Depth (in):	lo	Outfall fully submocated. Outfall s 63 US1.	0	, , ,		
	roleum Sheen ural Sheen	= =	up 🗌 0 Sewage Solid Wast	Office Follow-up Other e/Debris	Photo Not A	
	roleum C/Solvent	= ' =	Sewage Sulfur	Chlorine Sour		
Turbidity: None				Other	_Submerge	d.jpg
Color: None				Г	-Sampling Results	
Vegetation: None Inh Benthic Growth: None Green		cessive own	nge 🗌 O	ther	Sample Location: Sample ID: Time Collected:	
	w Line	nt Othe	t Stains er		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units °F mg/L mg/L

Outfall ID: 06-253

Inspection Date:	9/10/2009 li	nspector: JCW In:	spection Type:	Initial	Previous Rainfall (hrs): 72	2+
Flow Description Submerged: Full	: Submerged, indeterminate Depth (in):	Notes:				
Illicit Discharge F	, , ,	Field Fo	llow-up 🗌 C	Office Follow-up	Photo Not Ava	ilahla
Floatables: None		eum Sheen Suds al Sheen Algae	Sewage Solid Wast	Other e/Debris	Submerged Out	
Odor: None	Petrole	eum Musty Solvent Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity: None				Other	_Submerged.jp	g
Color: None				Г	Sampling Results	
Vegetation: Benthic Growth:	None		Orange 🗌 O	ther	Sample Location: Sample ID: Time Collected:	
Stains:	None Flow L	- = - =	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Erosion: N	one one Depth (in): one Displacement	Undercut ☐ Crushe Concrete Damage	ed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm units *F mg/L

Outfall ID: 06-253 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2040_13:50

o20100818135914.JPG

Outfall Notes:

Upstream manhole located approx 266 ft WSW of outfall 06-253. Intermediate area consists of multifamily residential buildings.

County Coordinates: State Plane Coordinates:

Northing: 474,249 Northing: 739,717 Easting: 788,349 Easting: 2,348,406



Inspection	Date:	8/18/2010 2:07:41	PM In	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
	•	Submerged, inde		Notes:					
Submerged	: Fully	Depth (in): 43						
Illicit Disch	arge P	otential: Unlikely			Field	d Follow-up	Office Follow-up		
Floatables:	None			um Shee Sheen	n 🗌 Suds		Other te/Debris		
Odor:	None		Petrole VOC/S	-	☐ Mus ☐ Fish	, = 0	☐ Chlorine☐ Sour		010 18:59
Turbidity:	None						Other	o20100818135	5922.JPG
Color:	None							-Sampling Results	
Vegetation:		None	Inhibite	d	Excessive			Sample Location: Poo	
Benthic Gro	wth:	Slight	✓ Green		Brown	Orange C	Other	Sample ID: 100 Time Collected: 141	818-86 0
Stains:		None	☐ Flow Li		Oil	Rust Stains		Total Chlorine (field):	0 <i>ppm</i>
		on Assessment —	Corrosi	on 📋	Paint	Other		Free Chlorine (field): Total Copper (field):	0 <i>ppm</i> 0 <i>ppm</i>
Graffiti:		one						Ammonia (field):	0 ppm
Erosion:		one						pH (field):	7.05 <i>units</i>
Depositio		one Depth (in):						Temperature:	81 <i>°</i> F
Damage:	INC	Displac Corrosi		Indercut Concrete I		ushed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 06-253 US1

Inspection Dat	te: 9/10/2009	Inspector:	JCW Insp	ection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descripti	ion: Submerged, sligh	t flow Notes:	River fly swarm	inside manh	ole.	1 the	
Submerged: F	Fully Depth (in): 38					
Illicit Discharg	ge Potential: Unlikely		Field Follo	w-up 🗌 C	Office Follow-up		
Floatables: No	one	☐ Petroleum Shee☐ Natural Sheen	n	☐ Sewage ☐ Solid Wast	Other e/Debris		
Odor: No	one	Petroleum VOC/Solvent	☐ Musty ☐	Sewage Sulfur	Chlorine Sour		60.70.2000 12:55
Turbidity: No	one				Other	Osh09_DSCN6	791.JPG
Color: No	one					Sampling Results ———	
Vegetation:	None	Inhibited I	Excessive			Sample Location: Pool	
Benthic Growth	n: None	Green	Brown 🗌 O	range 🗌 O	ther	Sample ID: 0909 Time Collected: 1259	910-26
Stains:	None	Flow Line	Oil R	ust Stains		Total Chlorine (field):	0 ppm
Physical Cor Graffiti: Erosion: Deposition: Damage:	None None None Depth (in): None Displace	0 Undercut	Crushed	ther		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 6.92 units 79 ℉ 0 mg/L 0 mg/L

Outfall ID: 06-729

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): Height/Depth (in):

18

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825103932.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 474,070 Northing: 739,514 Easting: 786,965 Easting: 2,347,025

Location Map



8/25/2010 10:46:31 AM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 06-Submerged: Fully Depth (in): 729 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Suds Petroleum Sheen Sewage Other **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 06-729

Inspection	Date:	9/10/2009	Ins	spector:	JCW	Inspection Typ	e: Initial	Р	revious Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, inde	terminate	Notes:						
Submerged	: Fully	Depth (in):							
Illicit Disch	arge P	otential: Unlikely			Field	Follow-up	Office Follow-up		Photo Not Av	vailahla
Floatables:	None		Petrole	um Sheer Sheen	n 🗌 Suds 🗌 Algae		Other aste/Debris		Submerged O	
Odor:	None		Petrole		☐ Musty		Chlorine Sour			
Turbidity:	None						Other		_Submerged	.jpg
Color:	None							-Sa	mpling Results ———	
Vegetation:		None	Inhibite	d 🗌 E	Excessive			Sa	ample Location:	
Benthic Gro	wth:	None	Green	E	Brown [Orange	Other		ample ID:	
Stains:		None	Flow Lin	_	Dil [Paint [Rust Stains Other		To	me Collected: otal Chlorine (field): ee Chlorine (field):	ppm ppm
-Physical	Conditi	on Assessment —							otal Copper (field):	ррт
Graffiti:		one						Ar	mmonia (field):	ppm
Erosion:		one D. H. (i.)							f (field):	units
Depositio		one Depth (in):	_		_				emperature:	F
Damage:	No	one Displac		ndercut oncrete D		shed			etergents: nenol:	mg/L mg/L

Outfall ID: 06-729 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.25.2010 11:04

o20100825110414.JPG

Outfall Notes:

Upstream manhole located approx 522 ft SSE of outfall 06-729. Intermediate manholes located inside wastewater treatment plant fence.

County Coordinates: State Plane Coordinates:

Northing: 473,600 Northing: 739,047 Easting: 787,169 Easting: 2,347,238



Inspection	Date:	8/25/2010 11:14:2	3 AM In	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, inde	terminate	Notes:				Alla San	
Submerged	: Fully	Depth (in): 19					A STATE OF THE STA	No.
Illicit Disch	arge P	otential: Unlikely			Field	d Follow-up	Office Follow-up		
Floatables:	None		Petrole Natural	um Shee Sheen	n 🗌 Suds		Other		
Odor:	None		Petrole VOC/S	-	☐ Mus ☐ Fish	, = 0	Chlorine Sour		08.25.2010-1.04
Turbidity:	None						Other	o20100825110)424.JPG
Color:	None							-Sampling Results	
Vegetation:		None	Inhibite	d 🗌	Excessive			Sample Location: Pool Sample ID: 100	l 825-65
Benthic Gro	wth:	Slight	✓ Green		Brown	Orange C	Other	Time Collected: 111	
Stains:		Slight	Flow Li		Oil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
-Physical	Conditi	on Assessment —						Total Copper (field):	0 ppm
Graffiti:		one						Ammonia (field):	0 ppm
Erosion:		one Donth (in)						pH (field):	7.31 <i>units</i>
Depositio		one Depth (in):						Temperature:	71 °F
Damage:	INC	one Displac Corrosi		ndercut oncrete [ushed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 06-729 US1

Inspection I	Date: 9/10/2	2009	Inspector:	JCW Ir	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descri Submerged:	-	nerged, slight flo					2	10
	arge Potential			Field Fo	ollow-up 🗌 🤇	Office Follow-up		
Floatables:	None		Petroleum Sheer Natural Sheen	n	Sewage Solid Wast	Other e/Debris		
Odor:	None		Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		09-10 2009 15:29
Turbidity:	None					Other	Osh09_DSCN6	819.JPG
Color:	None						-Sampling Results	
Vegetation:	None		Inhibited	Excessive			Sample Location: Pool Sample ID: 0909	910-10
Benthic Grov	vth: None		Green	Brown	Orange O	ther	Time Collected: 1528	
Stains:	None			Dil _	Rust Stains		Total Chlorine (field):	0 ppm
— Physical C Graffiti: Erosion: Deposition Damage:	None None None n: None None	Depth (in): 0 Displaceme Corrosion	_	Paint Crush Damage	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 7.2 units 75 °F 0 mg/L 0 mg/L

Outfall ID: 06-810

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 38

Width (in): 60

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

05. 19 3010 13:19

o20100818130938.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 473,225 Northing: 738,712 Easting: 789,346 Easting: 2,349,421



Inspection	Date: 8/1	8/2010 1:15:26 PM Ir	spector: JC	W Ins	spection Type:	Ongoing	Р	revious Rainfall (hrs):	72+
Flow Descr Submerged	•	bmerged, indeterminate Depth (in):	loc	,	ubmerged and all screened up	, , ,			
Illicit Disch				Field Fol		Office Follow-up		Photo Not Av	/ailable
Floatables:	none		eum Sheen L I Sheen	_ Suds _ Algae	Sewage Solid Wast	Other te/Debris		Submerged O	utfall
Odor:	None	Petrole		Musty Fishy	Sewage Sulfur	Chlorine Sour			
Turbidity:	None					Other		_Submergeo	l.jpg
Color:	None					Γ	-Sa	mpling Results ———	
Vegetation:	Non	e Inhibite	ed	essive			Sa	ample Location:	
Benthic Gro			Brow		Orange \square C	Other	Sa	imple ID:	
Dentine are			_	WII	Orange C	otilei	Ti	ne Collected:	
Stains:	Non				Rust Stains		To	tal Chlorine (field):	ppm
- Physical	Condition A	Corros	ion	it 📙 (Other		Fr	ee Chlorine (field):	ррт
Graffiti:		30003IIIOIN						tal Copper (field):	ppm
	None							nmonia (field):	ppm
Erosion:	None	Danath (in)					рŀ	I (field):	units
Depositio		Depth (in):					Τe	mperature:	F
Damage:	None	Displacement U	Indercut	Crushe	d			etergents:	mg/L
		Corrosion (Concrete Dam	age			Pł	nenol:	mg/L

Outfall ID: 06-810

Inspection Date: 9/10/2009	9 Ins	spector: JCW	Inspection Type:	Initial	Previous Rainfall (hrs): 72	·+
Flow Description: Submerg	ged, indeterminate	Notes:				
Submerged: Fully	Depth (in):					
Illicit Discharge Potential:	Potential	Fie	eld Follow-up	Office Follow-up	Photo Not Ava	ilahle
Floatables: None	Petroleu Natural	um Sheen 🔲 Su Sheen 🔲 Alg	ds Sewage gae Solid Was	Other te/Debris	Submerged Out	
Odor: None	Petroleu VOC/So		usty	Chlorine Sour		
Turbidity: None				Other	_Submerged.jpg	7
Color: None					Sampling Results ————	
Vegetation: None	Inhibited	d Excessive	Э		Sample Location:	
Benthic Growth: None	Green	Brown	Orange C	Other	Sample ID: Time Collected:	
Stains: None	Flow Lir	_	Rust Stains		Total Chlorine (field):	ррт
Physical Condition Assessr Graffiti: None Erosion: None Deposition: None Damage: None	epth (in):		Other Crushed		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units F mg/L mg/L

Outfall ID: 06-810 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

23. 13. 20.20 18:12

o20100818131228.JPG

Outfall Notes:

Upstream manhole located approx 77 ft SW of outfall 06-810. Intermediate area consists of open area.

County Coordinates: State Plane Coordinates:

Northing: 473,170 Northing: 738,655 Easting: 789,293 Easting: 2,349,369

Location Map



Inspection Date: 8/18/2010 1:18:51 PM Inspection Type: Ongoing Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 55 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum Faint ✓ Musty Sewage Chlorine Fishy Sulfur Sour o20100818131246.JPG Other Turbidity: None Faint in bottle Yellow Sampling Results Color: Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100818-88 Benthic Growth: None Orange Other Green Brown Time Collected: 1320 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0.5 ppm Erosion: None pH (field): 7.68 units Deposition: None Depth (in): 78 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 06-810 US1

Inspection	Date: 9/10	0/2009 In	spector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	omerged, indeterminate Depth (in): 6	Notes:	Abnormal d	etergent analysis	result (bubbles)		0.8
Illicit Disch	arge Potenti	al: Potential		Field F	ollow-up	Office Follow-up		
Floatables:	None	Petrole Natural	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour	1	20.10.2009 14:08
Turbidity:	None					Other	Osh09_DSCN	16801.JPG
Color:	None						Sampling Results	
Vegetation: Benthic Gro	None with: None		_	xcessive] Orange 🔲 O	other	Sample Location: Pool Sample ID: 090 Time Collected: 140	0910-65
Stains:	None	☐ Flow Li		oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti: Erosion: Depositio Damage:		Depth (in): 0	ndercut oncrete Da	☐ Crusl amage	hed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm ppm 8.42 units 82 °F 0 mg/L 0 mg/L

Outfall ID: 06-1028

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): Height/Depth (in): 12

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

CS. 15. 2010 74: BS.

o20100818145512.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 474,544 Northing: 740,004 Easting: 787,874 Easting: 2,347,926



Inspection Date: 8/18/2010 3:02:40 PM Inspector: JCW Inspection Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged, indeterminate Submerged: Fully Depth (in): Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 06-1028 US1.	
Field Follow-up	Photo Not Available Submerged Outfall
Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour	
Turbidity: None Other	_Submerged.jpg
Color: None	Sampling Results
Vegetation: None Inhibited Excessive	Sample Location:
Benthic Growth: None Green Brown Orange Other	Sample ID: Time Collected:
Stains: None Flow Line Oil Rust Stains Corrosion Paint Other	Total Chlorine (field): ppm Free Chlorine (field): ppm
Physical Condition Assessment Graffiti: None	Total Copper (field): ppm Ammonia (field): ppm
Erosion: None Deposition: None Depth (in):	pH (field): units Temperature: °F
Damage: None	Detergents: mg/L Phenol: mg/L

Outfall ID: 06-1028

Inspection	Date:	9/10/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (h	ırs): 72+	
	-	Submerged, inde		Notes:						
Submerged:	Fully	Depth (in):							
Illicit Disch	tential: Unlikely	☐ Field Follow-up ☐ Office Follow-up					Photo Not Available			
Floatables:	oatables: Petroleum She							Submerged Outfall		
Odor:	None		Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour			
Turbidity:	None						Other	_Subn	nerged.jpg	
Color:	None							-Sampling Results -		
Vegetation:	N	lone	☐ Inhibite	d 🗆 E	Excessive			Sample Location:		
			Green Brown Orange Other					Sample ID:		
Benthic Growth: None								Time Collected:		
Stains:			Flow Li		Dil [Rust Stains		Total Chlorine (field)	: ррт	
Corrosion Paint Other Physical Condition Assessment								Free Chlorine (field)		
Graffiti: None								Total Copper (field):	ppm	
Erosion:	Nor							Ammonia (field):	ppm	
Depositio	_	_						pH (field):	units	
Damage:	_ ' ' '						Temperature:	°F ,		
Damage.	1401	Displac		Indercut Concrete D	∐ Crus Damage	sned		Detergents: Phenol:	mg/L mg/L	

Outfall ID: 06-1028 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

88.18.2010 J.4.58

o20100818145842.JPG

Outfall Notes:

Upstream curb inlet located approx 122 ft SSE of outfall 06-1028. Intermediate area consists of open area and paved parking lot.

County Coordinates: State Plane Coordinates:

Northing: 474,434 Northing: 739,894 Easting: 787,926 Easting: 2,347,979



Inspection	Date:	8/18/2010 3:07:00	PM Ins	pector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci	ription:	Submerged, inde	terminate	Notes:				6	The second
Submerged: Fully Depth (in)): 18						A CONTRACTOR
Illicit Disch	arge P	otential: Unlikely	_		Field		P		
Floatables:	Slight		☐ Petroleu ✓ Natural :		n 🗌 Suds		Other		
Odor:	None		Petroleu VOC/So		☐ Mus	, = 0	Chlorine Sour		08.18.2010 14:58
Turbidity:	None						Other	02010081814	5848.JPG
Color:	None						Γ	-Sampling Results	
Vegetation:		None	Inhibited	I 🔲 I	Excessive			Sample Location: Pool Sample ID: 100	ol 818-87
Benthic Growth: Slight		✓ Green	✓ Green ☐ Brown ☐ Orange ☐ Other				Time Collected: 1505		
Stains:		None	☐ Flow Lin		Oil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Physical Condition Assessment								Total Copper (field):	0 <i>ppm</i>
Graffiti:		one						Ammonia (field):	0 ppm
Erosion: Deposition		one Depth (in):						pH (field):	7.46 <i>units</i>
Damage:		one Deptir (iii). Displac Corrosi		ndercut oncrete [ushed		Temperature: Detergents: Phenol:	76

Outfall ID: 06-1028 US1

Inspection	Date:	9/10/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption:	Submerged, inde		Notes:	Slight sulfi	de odor.			
Submerged: Fully Depth (in): 10									
Illicit Discharge Potential: Unlikely					Field	Follow-up 🔲 (Office Follow-up		
Floatables:	Slight		Petrole Natural	um Shee Sheen	n 🗌 Suds 🗌 Algae		✓ Other e/Debris		
Odor:	None		Petrole VOC/S	-	☐ Musty		☐ Chlorine ☐ Sour		00 10 2000 15 No
Turbidity:	None						Other	Osh09_DSCN	16796.JPG
Color:	None						Γ	-Sampling Results	
Vegetation:	Ī	Vone	☐ Inhibite	d 🗍	Excessive			Sample Location: Poo	ol
Benthic Growth: None		Green Brown Orange Other					Sample ID: 090	910-72	
Bertific Growth. None		Green Brown Grange Griner					Time Collected: 131	16	
Stains:		Vone	Flow Li	_	Oil [Rust Stains		Total Chlorine (field):	0 ppm
Physical Condition Assessment Corrosion Paint Other							Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm	
Graffiti:	No							Ammonia (field):	ppm
Erosion:	No	_	•					pH (field):	7.72 units
Depositio		1 ()	3		_			Temperature:	80 ℉
Damage:	No			Indercut		shed		Detergents:	0 <i>mg/L</i>
		Corrosi	on 🔲 C	oncrete [Jamage			Phenol:	0 mg/L

Outfall ID: 06-1694

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

-Dimensions

Diameter (in): 21
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825103400.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 473,980 Northing: 739,419 Easting: 786,742 Easting: 2,346,804

Location Map



Inspection Type: Ongoing Inspection Date: 8/25/2010 10:41:35 AM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 06-Submerged: Fully Depth (in): 1694 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 06-1694

Inspection Date:	9/10/2009 li	nspector: JCW In:	spection Type:	Initial	Previous Rainfall (hrs): 72	2+
Flow Description Submerged: Full	: Submerged, indeterminate Depth (in):	Notes:				
Illicit Discharge F	, , ,	Field Fo	llow-up 🗌 C	Office Follow-up	Photo Not Ava	ilahla
Floatables: None		eum Sheen Suds al Sheen Algae	Sewage Solid Wast	Other e/Debris	Submerged Out	
Odor: None	Petrole	eum Musty Solvent Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity: None				Other	_Submerged.jp	g
Color: None				Г	Sampling Results	
Vegetation: Benthic Growth:	None		Orange 🗌 O	ther	Sample Location: Sample ID: Time Collected:	
Stains:	None Flow L	- = - =	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Erosion: N	one one Depth (in): one Displacement	Undercut ☐ Crushe Concrete Damage	ed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm units *F mg/L

Outfall ID: 06-1694 US1

Major Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.25.2010 10:41

o20100825104144.JPG

Outfall Notes:

Upstream curb inlet located approx 109 ft S of outfall 06-1694. Intermediate area consists of open area north of wastewater treatment plant.

County Coordinates: State Plane Coordinates:

Northing: 473,884 Northing: 739,324 Easting: 786,792 Easting: 2,346,856

Location Map



Inspection	Date: 8/2	5/2010 10:50:34 AM	nspector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr	iption: Sul	bmerged, indeterminate	Notes:	Floatable s	olid waste in curb	inlet.	**	-
Submerged:	: Fully	Depth (in): 40						/ TAISTO
Illicit Disch	arge Potent	tial: Potential		Field I	Follow-up 🗌 (Office Follow-up		
Floatables:	Moderate		eum Sheer al Sheen	n 🗌 Suds 🗌 Algae	Sewage✓ Solid Wast	Other e/Debris		
Odor:	None	Petrol VOC/S	eum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		08/25 2010 17
Turbidity:	None					Other	020100825104	154.JPG
Color:	None						Sampling Results ———	
Vegetation:	None	e Inhibit	ed 🗌 E	Excessive			Sample Location: Flow	
Benthic Gro	wth: Sligh	ıt	E	Brown [Orange O	ther	Sample ID: 1008 Time Collected: 1056	325-98
Stains:	Sligh		_	Oil [Rust Stains		Total Chlorine (field):	0 ppm
— Physical of Graffiti: Erosion: Deposition Damage:	Condition As None None n: Minor None	Depth (in): 2	Undercut Concrete D	Paint □ □ Crus Damage	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm 0 ppm 7.5 units 72 °F 0 mg/L 0 mg/L

Outfall ID: 06-1694 US1

Inspection	Date: 9/1	0/2009 In	spector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged:	-	bmerged, indeterminate Depth (in): 36	Notes:					200
Illicit Disch	•			Field F	ollow-up	Office Follow-up		
Floatables:	None	☐ Petrole☐ Natural	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris	M. Jaco	
Odor:	None	Petrole VOC/S		☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		09.10.2000 15:00
Turbidity:	None					Other	Osh09_DSCN	6814.JPG
Color:	None					Г	-Sampling Results	
Vegetation:	None		_	excessive] Orange 🔲 C	other	·	910-25
Stains:	None	Corrosi		oil [Rust Stains Other		Time Collected: 150 Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti: Erosion: Deposition	None None n: None	Depth (in): 0					Total Copper (field): Ammonia (field): pH (field): Temperature:	0 ppm ppm 7.57 units 79 °F
Damage:	None		ndercut oncrete D	Crusl amage	ned		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 08-55

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

PVC

Dimensions

Diameter (in): 12 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100817104052.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

471,256 736,827 Northing: Northing: 2,354,163 Easting: 794,053 Easting:



Location Map

Inspection Date: 8/17/2010 10:47:38 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-55 Submerged: Fully Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-55 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100817104600.JPG

Outfall Notes:

Upstream manhole located approx 47 ft NNW of outfall 08-55. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 471,301 Northing: 736,872 Easting: 794,045 Easting: 2,354,154

Location Map



8/17/2010 10:52:47 AM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 14 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum Faint Musty Sewage Chlorine 08.17.2010 10:48 ✓ Fishy Sulfur Sour Other o20100817104610.JPG Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-03 Benthic Growth: None Orange Other Green Brown Time Collected: 1055 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.56 *units* Deposition: None Depth (in): 75 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 08-100

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Vitrified Clay

Dimensions

Diameter (in): Height/Depth (in):

30

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

Photo Not Available Submerged Outfall

_Submerged.jpg

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,769 Northing: 737,327 Easting: 793,310 Easting: 2,353,410

Location Map



Previous Rainfall (hrs): Inspection Date: 10/20/2010 9:00:00 AM Inspector: **JCW** Inspection Type: Ongoing Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 100 US1 and US3. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Petroleum Sheen Suds Floatables: None Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: Depth (in): None F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-100 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

Tough safe cacht

o20101020091150.jpg

Outfall Notes:

Upstream manhole located approx 48 ft NNW of outfall 08-100. Intermediate area consists of open space. Area under excavation.

County Coordinates: State Plane Coordinates:

Northing: 471,817 Northing: 737,374 Easting: 793,301 Easting: 2,353,401

Location Map



Inspection Date	: 10/20/2010 9:11:00 AM Insp	ector: JCW Inspe	ction Type: Ongoing	Previous Rainfall (hrs):	72+
Flow Description Submerged: Fu	3 -1, -11	Notes: Manhole excavate Screened at 08-	ted during construction. 100 US3.		
Illicit Discharge		Field Follow	·		
Floatables: None	☐ Natural S		Sewage Other Solid Waste/Debris		
Odor: None	Petroleun VOC/Solv		Sewage Chlor Sulfur Sour		119000 Julie us ha
Turbidity: None	9		Other	02010102009	1150.jpg
Color: None	e			Sampling Results	
Vegetation:	None Inhibited	Excessive		Sample Location:	
Benthic Growth:	None Green	Brown Ora	ange Other	Sample ID: Time Collected:	
Stains:	None Flow Line		st Stains	Total Chlorine (field):	ppm
	ition Assessment — Corrosion None	n	ler	Free Chlorine (field): Total Copper (field):	ррт ррт
	None			Ammonia (field): pH (field):	ppm units
Deposition:	None Depth (in):			Temperature:	ums °F
Damage:		dercut		Detergents: Phenol:	mg/L mg/L

Outfall ID: 08-100 US1

Inspection	Date: 6/2/	2010 9:05:00 AM Ir	spector:	JCW I	nspection Type:	Other	Previous Rainfall (hrs):	72+
Flow Descri Submerged	•	omerged, indeterminate Depth (in):	Notes:	Initial locate activities.	only - no formal	screening		1
Illicit Disch	arge Potenti	al: Unlikely		Field F	ollow-up	Office Follow-up		IA.
Floatables:	None		um Sheen I Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour	20.00	08.02.2010
Turbidity:	None					Other	020100602090	520.JPG
Color:	None						-Sampling Results	
Vegetation:	None	Inhibite	ed 🗌 E	Excessive			Sample Location:	
Benthic Gro	wth: None	Green		Brown	Orange 🗌 O	other	Sample ID: Time Collected:	
Stains:	None		_	Dil _	Rust Stains		Total Chlorine (field):	ррт
Graffiti: Erosion: Depositio Damage:		Depth (in):	Indercut	Paint Crush Damage	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units ℉ mg/L mg/L

Outfall ID: 08-100 US3

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

North Main St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located



o20101020092102.jpg

Outfall Notes:

Upstream manhole located approx 209 ft NNE of outfall 08-100. Intermediate area consists of open space and paved parking area.

County Coordinates: State Plane Coordinates:

Northing: 471,949 Northing: 737,509 Easting: 793,404 Easting: 2,353,502

08-100 US3 08-279 US1 08-279 08-100 US1 08-

Location Map

Inspection Date: Inspection Type: Ongoing 10/20/2010 9:21:20 AM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: First manhole upstream of outfall excavated. Next upstream manhole not Submerged: Fully Depth (in): 24 located. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: Slight Petroleum Sheen Suds Other Sewage Natural Sheen ✓ Solid Waste/Debris Algae Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent Fishy **✓** Sulfur Sour o20101020092112.jpg Othe Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 101020-79 Benthic Growth: None Orange Other Green Brown Time Collected 0920 ✓ Rust Stains Stains: Moderate ✓ Flow Line Oil Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.06 units Deposition: None Depth (in): F Temperature: 56 Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-162

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Vitrified Clay

Dimensions

Diameter (in): 15 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100817083438.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

735,109 Northing: 469,477 Northing: 2,357,574 Easting: 797,433 Easting:





Location Map

Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/17/2010 8:23:00 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 162 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-162 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - brick

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

Opening Spanish Control of Contro

o20100817083802.JPG

Outfall Notes:

Upstream manhole located approx 67 ft NNE of outfall 08-162. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 469,540 Northing: 735,172 Easting: 797,451 Easting: 2,357,590

Location Map



Inspection Type: Ongoing Inspection Date: 8/17/2010 8:43:24 AM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Very small spot (one or two drops) of oil sheen in pool. Submerged: Fully Depth (in): 19 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: Slight ✓ Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100817083810.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-53 Benthic Growth: None Orange Other Green Brown Time Collected: 0845 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.94 units Deposition: None Depth (in): 71 %F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-270

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 36
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

V5 08:17 20:10 Q8:54

o20100817085456.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 470,680 Northing: 736,280 Easting: 795,644 Easting: 2,355,763

Location Map



Inspection	Date:	8/17/2010 8:54:00	M Inspector: JCW Inspection Type: Ongo	ing Previous Rainfall (hrs): 72+
Flow Descr Submerged	-	_	Prminate Notes: Outfall fully submerged. Outfall scr upstream at 08-270 US1.	reened
Illicit Disch Floatables:		otential: Unlikely		Photo Not Available Submerged Outfall
Odor:	None			Chlorine Sour
Turbidity:	None			OtherSubmerged.jpg
Color:	None			Sampling Results
Vegetation:		None	☐ Inhibited ☐ Excessive	Sample Location:
Benthic Gro	wth:	None	Green Brown Orange Other	Sample ID: Time Collected:
Stains:		None	☐ Flow Line ☐ Oil ☐ Rust Stains ☐ Corrosion ☐ Paint ☐ Other	Total Chlorine (field): ppm Free Chlorine (field): ppm
Graffiti: Erosion: Depositio	N N	on Assessment — one one one Depth (in):		Total Copper (field): ppm Ammonia (field): ppm pH (field): units Temperature: F
Damage:	N	one Displace Corrosic		Detergents: mg/L Phenol: mg/L

Outfall ID: 08-270

Inspection	Date: 9/8	3/2009	Inspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descri Submerged	•	bmerged, indeterminate Depth (in): 37	Notes:	,	submerged and Itfall screened up			
Illicit Disch	arge Poten	tial: Unlikely		☐ Field F	ollow-up	Office Follow-up		
Floatables:	None		oleum Sheer ral Sheen	Suds Algae	Sewage Solid Wast	Other te/Debris		
Odor:	None		oleum /Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		The state of the s
Turbidity:	None					Other	Osh09_DSCN6	656.JPG
Color:	None						-Sampling Results	
Vegetation:	None	e Inhib	ited 🗌 E	Excessive			Sample Location:	
Benthic Gro	wth: None	e Gree	n 🗌 E	Brown	Orange 🗌 C	Other	Sample ID: Time Collected:	
Stains:	None	e Flow		Dil	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
-Physical	Condition As	ssessment ————					Total Copper (field):	ppm
Graffiti:	None						Ammonia (field):	ppm
Erosion:	None	Double Colo					pH (field):	units
Depositio		Depth (in):		_			Temperature:	F
Damage:	None	☐ Displacement ☐ ☐ Corrosion ☐	Undercut Concrete D	Crushamage	ned		Detergents: Phenol:	mg/L mg/L

Outfall ID: 08-270 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

O8.17.2010 O8:58

o20100817085602.JPG

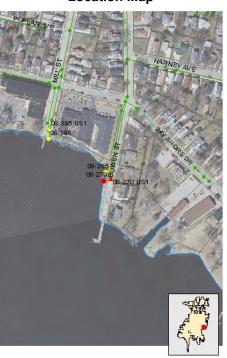
Outfall Notes:

Upstream manhole located approx 34 ft ENE of outfall 08-270. Intermediate area consists of road right-of-way and shoreline.

County Coordinates: State Plane Coordinates:

Northing: 470,692 Northing: 736,292 Easting: 795,677 Easting: 2,355,796

Location Map



8/17/2010 9:05:04 AM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): 72+ 30" pool, fully submerged - 36" CMP Flow Description: Submerged, indeterminate Notes: information from MS4 suspect. Submerged: Fully Depth (in): 30 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Faint Petroleum ✓ Musty Sewage Chlorine Fishy Sulfur Sour Other o20100817085620.JPG Turbidity: None Sampling Results Color: Faint in bottle Brown Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100817-07 Benthic Growth: None Orange Other Green Brown Time Collected: 0905 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.88 units Deposition: None Depth (in): 72 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-270 US1

Inspection D	Date: 9/8/20)09 Ir	spector:	JCW II	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descri	-	nerged, indeterminate Depth (in): 30	Notes:					
Illicit Discha	arge Potential	: Unlikely		Field F	ollow-up 🔲 0	Office Follow-up		
Floatables:	None		eum Sheen I Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petrole	-	☐ Musty	Sewage Sulfur	Chlorine Sour		99-08-2009 14:48
Turbidity:	None			-		Other	Osh09_DSCN	6658.JPG
Color:	None						-Sampling Results	
Vegetation:	None	Inhibite	ed 🗌 E	excessive			Sample Location: Poo	
Benthic Grow	vth: None	Green	□В	Brown] Orange 🔲 C	Other	Sample ID: 090 Time Collected: 150	908-28 0
Stains:	None	☐ Flow L			Rust Stains		Total Chlorine (field):	0 <i>ppm</i>
Physical C Graffiti: Erosion: Deposition Damage:	None None None n: None None	Depth (in): 0	Jndercut Concrete D	Paint ☐ ☐ Crush amage	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 8.26 units 77 °F 0 mg/L 0 mg/L

Outfall ID: 08-271

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 22

Width (in): 36

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.17.2010 10:55

o20100817105524.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,501 Northing: 737,066 Easting: 793,717 Easting: 2,353,822

CEAPLE AIVE

108-100 US3

08-100 US1

08-100 US1

08-100 US1

08-55 US1

108-571

08-347 US1

Location Map

Inspection Date: 8/17/2010 11:02:58 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 271 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Petroleum Sheen Suds Floatables: None Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-271 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

Da 17 2010 to 56

o20100817105658.JPG

Outfall Notes:

Upstream manhole located approx 39 ft NNE of outfall 08-271. Intermediate area consists of open space under construction.

County Coordinates: State Plane Coordinates:

Northing: 471,536 Northing: 737,102 Easting: 793,734 Easting: 2,353,839

Location Map



JCW Inspection Type: Ongoing Inspection Date: 8/17/2010 11:05:29 AM Inspector: Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Area under construction - manhole undisturbed. Submerged: Fully Depth (in): 29 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine .17.2010 10:57 Fishy Sulfur Sour Other o20100817105714.JPG Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-24 Benthic Growth: None Orange Other Green Brown Time Collected: 1105 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.79 units Deposition: None Depth (in): 74 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-279

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Basin Name:

North Main St

Dimensions

Diameter (in): Height/Depth (in): 42

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100817111406.JPG

Outfall Notes:

Outfall partially submerged.

State Plane Coordinates: **County Coordinates:**

737,398 Northing: 471,843 Northing: 2,353,269 Easting: 793,170 Easting:



CEAPEAILE 08-100 US1

Location Map

Inspection Date: 8/17/2010 11:20:23 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Outfall partially submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 08-279 US1. Submerged: Partially Depth (in): 41 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Othe o20100817111416.JPG Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Moderate Orange Other ✓ Green Brown Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Phenol: Corrosion Concrete Damage mg/L

Outfall ID: 08-279 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

OH 12 2010 11 33

o20100817111740.JPG

Outfall Notes:

Upstream manhole located approx 24 ft NNE of outfall 08-279. Intermediate area consists of open space under construction.

County Coordinates: State Plane Coordinates:

Northing: 471,863 Northing: 737,418 Easting: 793.176 Easting: 2,353,275

Location Map



JCW Inspection Date: 8/17/2010 11:24:22 AM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Area under construction - manhole undisturbed. Submerged: Partially Depth (in): 29 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100817111750.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-30 Benthic Growth: None Orange Other Green Brown Time Collected: 1125 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.96 units Deposition: None Depth (in): 73 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-284

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 27

43

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.17.2010 09:35

o20100817093554.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,043 Northing: 736,629 Easting: 794,830 Easting: 2,354,943

Location Map



Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/17/2010 9:35:00 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 284 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-284 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.17.2810 DB:38

o20100817093830.JPG

Outfall Notes:

Upstream manhole located approx 26 ft N of outfall 08-284. Intermediate area consists of street right-of-way and open space.

County Coordinates: State Plane Coordinates:

Northing: 471,067 Northing: 736,653 Easting: 794,833 Easting: 2,354,946

Location Map



Inspection Date: 8/17/2010 9:47:15 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Significant floatable debris in manhole. Submerged: Fully Depth (in): 31 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Severe Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour o20100817093838.JPG Other Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100817-22 Benthic Growth: None Orange Other Green Brown Time Collected: 0945 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.64 units Deposition: None Depth (in): 74 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 08-285

Minor Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions -

Diameter (in): 30
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100817090608.JPG

Outfall Notes:

Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 470,725 Northing: 736,325 Easting: 795,653 Easting: 2,355,772

DB-395 US1
06-395
08-270 US1

Location Map

Inspection Date: 8/17/2010 9:13:42 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Outfall partially submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 08-285 US1. Submerged: Partially Depth (in): 26 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage VOC/Solvent Fishy Sulfur Sour o20100817090616.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: Moderate ✓ Green Orange Other **✓** Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-285 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

Let 11 Abilo val 10

o20100817091004.JPG

Outfall Notes:

Upstream manhole located approx 25 ft ENE of outfall 08-285. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 470,736 Northing: 736,336 Easting: 795,676 Easting: 2,355,794

Location Map



Inspection Type: Ongoing Inspection Date: 8/17/2010 9:19:10 AM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 24 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine Fishy Sulfur Sour o20100817091012.JPG Other Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100817-54 Benthic Growth: Moderate Orange Other ✓ Green Brown Time Collected: 0920 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 8.1 units Deposition: None Depth (in): 71 %F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-347

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Basin Name:

Broad St

Dimensions

Diameter (in): Height/Depth (in): 42

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



o20100817100702.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,171 Northing: 736,745 Easting: 794,227 Easting: 2,354,338



Inspection Date: 8/17/2010 10:13:00 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 347 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-347 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

98.17.2010.10.08

o20100817100938.JPG

Outfall Notes:

Upstream manhole located approx 64 ft NNE of outfall 08-347. Intermediate area consists of gravel parking area and railroad storage shed.

County Coordinates: State Plane Coordinates:

Northing: 471,232 Northing: 736,806 Easting: 794,245 Easting: 2,354,355

Location Map



Inspection Date: 8/17/2010 10:17:46 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Significant floatable debris in manhole. Submerged: Fully Depth (in): 48 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Severe Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100817100950.JPG Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-66 Benthic Growth: None Orange Other Green Brown Time Collected: 1020 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.71 units Deposition: None Depth (in): 74 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 08-350

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 18
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

o20100826105100.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map. Pipe larger than 18" shown on map.

County Coordinates:

State Plane Coordinates:

Northing: 469,787 Northing: 735,405 Easting: 796,602 Easting: 2,356,738

Location Map



Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/26/2010 10:59:27 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 350 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-350 US1

Minor Outfall - Alternate Location

Structure Type:

Closed Pipe Outfall

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

/08 26 2010 10 5/

o20100826105736.JPG

Outfall Notes:

Upstream manhole located approx 21 ft N of outfall 08-350. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 469,809 Northing: 735,426 Easting: 796,602 Easting: 2,356,737

Location Map



Inspection Date: 8/26/2010 11:04:22 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Large crickets in manhole. Submerged: Fully Depth (in): 24 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Petroleum Chlorine None Musty Sewage Fishy Sulfur Sour o20100826105750.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100826-22 Benthic Growth: Moderate Orange Other ✓ Green **✓** Brown Time Collected: 1105 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.71 units Deposition: None Depth (in): 73 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-369

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Vitrified Clay

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.17_2a(c) 5:19

o20100817081940.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 469,434 Northing: 735,071 Easting: 797,704 Easting: 2,357,845

Location Map



8/17/2010 8:19:00 AM Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 369 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-369 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.17,2010 08:21

o20100817082106.JPG

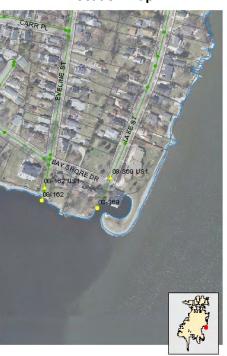
Outfall Notes:

Upstream manhole located approx 165 ft NNE of outfall 08-369. Intermediate area consists of residential property and street right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 469,583 Northing: 735,221 Easting: 797,773 Easting: 2,357,912

Location Map



Inspection Date: 8/17/2010 8:31:22 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 18 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100817082200.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-58 Benthic Growth: None Orange Other Green Brown Time Collected: 0830 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.72 units Deposition: None Depth (in): 71 %F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-395

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

O8.17.2010 00:52

o20100817095222.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 470,890 Northing: 736,485 Easting: 795,379 Easting: 2,355,495



8/17/2010 9:58:51 AM Previous Rainfall (hrs): 72+ Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 08-Submerged: Fully Depth (in): 395 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 08-395 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.17.2010.09:54

o20100817095412.JPG

Outfall Notes:

Upstream manhole located approx 45 ft N of outfall 08-395. Intermediate area consists of paved parking and boat launch.

County Coordinates: State Plane Coordinates:

Northing: 470,936 Northing: 736,531 Easting: 795,381 Easting: 2,355,496

Location Map



8/17/2010 10:02:40 AM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 32 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100817095422.JPG Other Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100817-56 Benthic Growth: None Orange Other Green Brown Time Collected: 1003 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.83 units Deposition: None Depth (in): 73 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 09-32

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 12

19

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.18.19010.40; 80

o20100818105918.JPG

Outfall Notes:

Outfall not physically located - behind fence. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,979 Northing: 737,498 Easting: 791,173 Easting: 2,351,270

Location Map



Inspection Date: 8/18/2010 11:06:29 AM	Inspector: JCW Inspection Type: Ongoin	g Previous Rainfall (hrs): 72+
Flow Description: Submerged, indeterminate Submerged: Fully Depth (in):	Notes: Outfall fully submerged and not phys located. Upstream manhole (09-32 taccessible.	,
Nat	tural Sheen Algae Solid Waste/Debris	Photo Not Available Submerged Outfall
	C/Solvent Fishy Sulfur Sc	
Color: None Vegetation: None	ibited Excessive	Sampling Results Sample Location:
Benthic Growth: None Gre		Sample ID: Time Collected:
	w Line Oil Rust Stains rrosion Paint Other Undercut Crushed Concrete Damage	Total Chlorine (field): ppm Free Chlorine (field): ppm Total Copper (field): ppm Ammonia (field): ppm pH (field): units Temperature: F Detergents: mg/L Phenol: mg/L

Outfall ID: 09-32

Inspection I	Date:	9/10/2009	In	spector:	JCW	Inspection 7	Гуре:	Initial	Р	revious Rainfall (hrs):	72+
Flow Descri	iption:	:		Notes:							
Submerged:		Depth (in): 0								
Illicit Discha	arge P	otential:			Field	Follow-up		Office Follow-up		Photo Not Av	/ailable
Floatables:	None		Petrole Natural	um Sheer Sheen	n ☐ Suds ☐ Algae	=	•	Other e/Debris		Submerged O	
Odor:	None		Petrole VOC/Se		☐ Musty	' =	•	Chlorine Sour			
Turbidity:	None							Other		_Submergeo	l.jpg
Color:	None								Sai	mpling Results ———	
Vegetation:		None	☐ Inhibite	d □E	Excessive				Sa	ample Location:	
Benthic Grov	wth:	None	Green	 	Brown	Orange		ther	Sa	imple ID:	
	· · · · · · · · · · · · · · · · · · ·					_			Tir	ne Collected:	
Stains:		None	Flow Li		Oil [Rust Stair	ns			tal Chlorine (field):	ppm
Physical (Conditi	ion Assessment —	Corrosi	on L F	Paint	Other				ee Chlorine (field):	ppm
Graffiti:	N	one								rtal Copper (field): nmonia (field):	ррт ррт
Erosion:	N	one								I (field):	units
Deposition	n: N	one Depth (in):	0						•	mperature:	F
Damage:	N	one Displac	_	ndercut		shed				etergents:	mg/L
		Corrosi	on U C	oncrete D	amage				Ph	ienol:	mg/L

Outfall ID: 09-32 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.18.2010 11:03

o20100818110338.JPG

Outfall Notes:

Upstream manhole located approx 69 ft S of outfall 09-32. Inaccessable - paved over. No other manhole outside building.

County Coordinates: State Plane Coordinates:

Northing: 471,910 Northing: 737,430 Easting: 791,165 Easting: 2,351,263

Location Map



8/18/2010 11:10:55 AM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: None Notes: Manhole not positively located. May be paved over. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 09-32 US1

Inspection Date: 9/10/2009 Inspector: JCW Inspection Type: Initia	al Previous Rainfall (hrs): 72+
Flow Description: Notes: Unable to screen at this location.	
Submerged: Depth (in): 0	
Illicit Discharge Potential: Unlikely ✓ Field Follow-up Office	Photo Not Available
Floatables: Petroleum Sheen Suds Sewage Natural Sheen Algae Solid Waste/Det	Other
Odor: Petroleum Musty Sewage VOC/Solvent Fishy Sulfur	Chlorine Sour
Turbidity:	Other
Color:	Sampling Results
Vegetation: Inhibited Excessive	Sample Location:
	Sample ID:
Benthic Growth: Green Brown Orange Other	Time Collected:
Stains:	Total Chlorine (field): ppm
Physical Condition Assessment Corrosion Paint Other	Free Chlorine (field): ppm
	Total Copper (field): ppm
Graffiti: None	Ammonia (field): ppm
Erosion: None	pH (field): units
Deposition: Depth (in): 0	Temperature: $\mathscr F$
Damage: None	Detergents: mg/L
Corrosion Concrete Damage	Phenol: mg/L

Outfall ID: 09-84

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

Vitrified Clay

Dimensions

Diameter (in): Height/Depth (in): 24

Width (in):

Mapping Precison:

✓ Not Physically Located

09 10 2009 10 07

Osh09_DSCN6770.JPG

Outfall Notes:

Outfall fully submerged under bridge and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 471,931 Northing: 737,462 Easting: 791,819 Easting: 2,351,917

Location Map



Inspection	Date: 10/20	/2010 10:34:00 AM	Inspector:	JCW In	spection Type:	Ongoing	Pre	vious Rainfall (hrs):	72+
Flow Descr Submerged	•	nerged, indeterminate Depth (in):		•	ubmerged and fall screened u	not physically pstream at 09-84			
	None	Petro	leum Sheen al Sheen	☐ Field Fo☐ Suds☐ Algae	llow-up	Office Follow-up Other te/Debris		Photo Not Av Submerged O	
Odor:	None	Petro	leum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour			
Turbidity:	None					Other		_Submerged.	<i>ipg</i>
Color:	None						-Sam _l	oling Results ———	
Vegetation: Benthic Gro	None wth: None	☐ Inhibi	_	ccessive	Orange 🗌 C	Other	Sam	uple Location: uple ID: e Collected:	
Stains: Physical	None Condition Asse	Flow Corro			Rust Stains Other		Free	Il Chlorine (field): Chlorine (field): Il Copper (field):	ppm ppm
Graffiti: Erosion: Depositio Damage:		Depth (in):	Undercut	☐ Crush	ed		Amr pH (Tem	n copper (neid): nonia (field): field): uperature: ergents:	ppm ppm units ℉ mg/L
		☐ Corrosion ☐	Concrete Da	ımage			Phe	nol:	mg/L

Outfall ID: 09-84

Inspection	Date: 9/10/2	2009 In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs): 72+	
Flow Descr Submerged	•	nerged, indeterminate Depth (in):	Notes:					
	None		um Shee Sheen		Follow-up (Office Follow-up Other e/Debris	Photo Not Available Submerged Outfall	
Odor:	None	☐ Petrole☐ VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity:	None					Other	_Submerged.jpg	
Color: Vegetation: Benthic Gro Stains:	None None None	☐ Inhibite☐ ☐ Green☐ ☐ Flow Li		Excessive Brown	☐ Orange ☐ C	ither	Sampling Results Sample Location: Sample ID: Time Collected:	
		Depth (in):	_	Paint Crus	Other		Total Chlorine (field): ppm Free Chlorine (field): ppm Total Copper (field): ppm Ammonia (field): ppm pH (field): units Temperature: F Detergents: mg/L Phenol: mg/L	

Outfall ID: 09-84 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - brick

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

16.23.2616 15:24

o20101020102402.jpg

Outfall Notes:

Upstream manhole located approx 78 ft S of outfall 09-84. Intermediate area consists of bridge and approach.

County Coordinates: State Plane Coordinates:

Northing: 471,857 Northing: 737,388 Easting: 791,816 Easting: 2,351,915



Inspection Dat	te: 10/20/201	10 10:26:10	AM Insp	pector:	JCW In	spection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descripti	ion: Submerg	ged, indeter	minate	Notes:				RAM	A A
Submerged: F	ully	Depth (in):	24					A PARTIES	
Illicit Discharg	je Potential:	Unlikely	L		Field Fo	ollow-up	Office Follow-up		
Floatables: No	one		Petroleur Natural S		Suds Algae	Sewage Solid Wast	Other te/Debris		
Odor: No	one		Petroleui		☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		10.20.2010 10:24
Turbidity: No	one						Other	o20101020102	?410.jpg
Color: Fai	int in bottle	В	Brown				[-Sampling Results	
Vegetation:	None		Inhibited	E	xcessive			Sample Location: Pool Sample ID: 1010)20-94
Benthic Growth	n: None		Green	□ B	rown	Orange C	Other	Time Collected: 1025	
Stains:	None		Flow Line		oil [Rust Stains Other		Total Chlorine (field):	0 ppm
	ndition Assessm	nent —	_ Corrosion	п	aiii	Other		Free Chlorine (field): Total Copper (field):	0 <i>ppm</i> 0 <i>ppm</i>
Graffiti:	None							Ammonia (field):	0 ppm
Erosion:	None							pH (field):	7.23 <i>units</i>
Deposition:		epth (in):						Temperature:	56 °F
Damage:	None	Displacement Corrosion	_	dercut increte Da	Crush amage	ed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 09-84 US1

Inspection Da	ate: 9/10/2009	Inspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descrip	otion: Submerged, in	determinate Notes:	Abnormal de	etergent analysis	result (bubbles)		
Submerged:	Fully Depth	(in): 16					
Illicit Dischar	rge Potential: Potent	ial	Field F	ollow-up 🗌 🤇	Office Follow-up		3
Floatables: N	None	Petroleum Shee	en	Sewage Solid Wast	Other e/Debris		
Odor: N	lone	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09(10,2008 10:18
Turbidity: N	lone				Other	Osh09_DSCN6	772.JPG
Color: N	lone				Г	Sampling Results ———	
Vegetation:	None	Inhibited	Excessive			Sample Location: Pool Sample ID: 0909	910-21
Benthic Growt	th: None	Green	Brown	Orange O	ther	Time Collected: 1016	
Stains:	None	_ = =	Oil	Rust Stains		Total Chlorine (field):	0 ppm
Graffiti: Erosion: Deposition: Damage:	None - ' '	n): 0	Paint Crush	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm ppm 8.03 units 76 °F 0 mg/L 0 mg/L

Outfall ID: 09-101a

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Box

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

☐ Not Physically Located

95 10 2009 10 44

Osh09_DSCN6774.JPG

Outfall Notes:

Outfall not physically screened - behind fence. May consist of three outfalls within one concrete box culvert.

County Coordinates: State Plane Coordinates:

Northing: 471,884 Northing: 737,393 Easting: 790,634 Easting: 2,350,733



Inspection	Date:	8/18/2010 10:55:0	7 AM In	spector:	JCW	Inspection T	Гуре:	Ongoing	Р	revious Rainfall (hrs):	72+
Flow Descr Submerged:	•	Submerged, inde		Notes:	,	0		ot physically stream at 09-			
Illicit Disch			<i>,</i> .	Field Follow-up Office Follow-up			Office Follow-up		Photo Not Av	ailahla	
Floatables:	None			um Sheen Sheen	Suds Algae	Sewa	•	Other e/Debris		Submerged O	
Odor:	None		Petrole VOC/S	-	☐ Musty	Sewa	•	☐ Chlorine ☐ Sour			
Turbidity:	None							Other		_Submerged.	jpg
Color:	None								Saı	mpling Results ———	
Vegetation:		None	Inhibite	ed 🗌 E	xcessive					mple Location:	
Benthic Gro	wth:	None	Green	□ B	rown	Orange	Ot	her		mple ID: ne Collected:	
Stains:		None	☐ Flow Li		oil [Rust Stair	ns			tal Chlorine (field): ee Chlorine (field):	ррт
-Physical	Conditi	on Assessment —								tal Copper (field):	ррт
Graffiti:		one							An	nmonia (field):	ppm
Erosion:		one Danth (in)							рH	(field):	units
Depositio Damage:		one Depth (in):								mperature:	°F
Damage.	ING	Displace		Indercut Concrete D	Crus amage	shed				enol:	mg/L mg/L

Outfall ID: 09-101a

Inspection	Date: 9/10/2009	Inspector: JCW Insp	pection Type: Initial	Previous Rainfall (hrs):	72+
Flow Descr	ription:	Notes:			
Submerged	: Partially Depth (in):			
Illicit Disch	arge Potential: Unlikely	✓ Field Follo	ow-up	Photo Not A	vailable
Floatables:	None	☐ Petroleum Sheen ☐ Suds ☐ Natural Sheen ☐ Algae ☐	Sewage 0	Other Submerged	
Odor:	None	☐ Petroleum ☐ Musty ☐ VOC/Solvent ☐ Fishy		Chlorine Gour	
Turbidity:	None			Other _Submerg	ed.jpg
Color:	None			-Sampling Results	
Vegetation:	None	☐ Inhibited ☐ Excessive		Sample Location:	
Benthic Gro			Orange	Sample ID: Time Collected:	
Stains:	None		Rust Stains	Total Chlorine (field):	ppm
Graffiti: Erosion: Depositio Damage:	1 ()	ement Undercut Crushec	Other	Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units F mg/L mg/L

Outfall ID: 09-101a US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 10:38

o20100818103828.JPG

Outfall Notes:

Upstream manhole located approx 292 ft SSW of outfall 09-101a. Intermediate area consists of gravel parking area for industrial property.

County Coordinates: State Plane Coordinates:

Northing: 471,604 Northing: 737,112 Easting: 790,555 Easting: 2,350,659



Inspection	Date:	8/18/2010 10:47:1	5 AM In	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	Submerged, inde		Notes:					
Illicit Disch	•	, ,	,		Field	Follow-up	Office Follow-up		
Floatables:	None			um Sheer Sheen	n 🗌 Suds 🗌 Algae		Other te/Debris		
Odor:	None		Petrole VOC/S	-	☐ Must ☐ Fishy	, = ,	☐ Chlorine☐ Sour		05 19-2010 10:38
Turbidity:	None						Other	o20100818103	1836.JPG
Color:	None						Γ	-Sampling Results	
Vegetation:		None	Inhibite	ed 🗌 E	Excessive			Sample Location: Poo	I
Benthic Gro	wth:	None	Green	E	Brown	Orange C	Other	Sample ID: 1008 Time Collected: 1048	318-75 5
Stains:		None	☐ Flow Li		Dil	Rust Stains		Total Chlorine (field):	0 ppm
	Conditio	on Assessment —	Corros	ion F	Paint	Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti:		one						Ammonia (field):	0 ppm
Erosion:		one D. II. (1.)						pH (field):	7.65 units
Depositio		one Depth (in):	_					Temperature:	76 °F
Damage:	INC	one Displace Corrosic	_	Indercut Concrete D		shed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 09-101a US1

Inspection	Date:	9/10/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+		
Flow Descr	iption:	Submerged, inde	terminate	Notes:				NI	000		
Submerged	: Fully	Depth (in): 22								
Illicit Disch	arge Po	otential: Unlikely			Field	Follow-up	Office Follow-up	and a			
Floatables:	None		Petrole Natural	um Shee Sheen	n 🗌 Suds 🗌 Algae	Sewage Solid Was	Other te/Debris				
Odor:	None		Petrole VOC/S	-	☐ Musty		☐ Chlorine☐ Sour		08.10.2009 10:54		
Turbidity:	None						Other	Osh09_DSCN	6777.JPG		
Color:	None						ſ	-Sampling Results			
Vegetation:	Ī	None	Inhibite	d 🔲 I	Excessive			Sample Location: Poo			
Benthic Gro	wth:	None	Green		Brown [Orange C	Other	Sample ID: 090 Time Collected: 105	910-67		
Stains:	1	None	☐ Flow Li		Oil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm		
'		n Assessment —						Total Copper (field):	0 <i>ppm</i>		
Graffiti:	No							Ammonia (field):	ppm		
Erosion: Depositio	No n: No	_	0					pH (field):	8.19 <i>units</i>		
Deposition Damage:		no —	_					Temperature:	74 %F		
Damage.	140	Tie Displac		Indercut Concrete [shed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>		

Outfall ID: 09-101b

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Box

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

☐ Not Physically Located

29570 2009 10 A2

Osh09_DSCN6774.JPG

Outfall Notes:

Outfall not physically screened - behind fence. May consist of three outfalls within one concrete box culvert.

County Coordinates: State Plane Coordinates:

Northing: 471,883 Northing: 737,393 Easting: 790,642 Easting: 2,350,741



Inspection Date: 8/1	18/2010 10:58:06 AM In	spector: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs): 7	2+
Flow Description: Su Submerged: Partially	bmerged, indeterminate Depth (in):		lly submerged and Outfall screened up 1.	, , ,		
Illicit Discharge Poten		_	_ ' _	Office Follow-up	Photo Not Ava	ailable
Floatables: None		um Sheen		U Other te/Debris	Submerged Ou	tfall
Odor: None	Petrole VOC/S		, = 0	Chlorine Sour		
Turbidity: None				Other	_Submerged.jp	og
Color: None				Г	Sampling Results ———	
Vegetation: Non-	e	ed Excessive			Sample Location:	
Benthic Growth: Non-	e Green	Brown	Orange C	Other	Sample ID: Time Collected:	
Stains: Non-			Rust Stains		Total Chlorine (field):	ppm
Graffiti: None Erosion: None Deposition: None	Ssessment Corros Depth (in):	ion	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature:	ppm ppm ppm units ℉
Damage: None		Indercut	ushed		Detergents: Phenol:	mg/L mg/L

Outfall ID: 09-101b

Inspection	Date: 9/10/2	2009	Inspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption:		Notes:					
Submerged	: Partially	Depth (in):						
Illicit Disch	arge Potential	: Unlikely	L	✓ Field F	follow-up	Office Follow-up	Photo Not Av	vailable
Floatables:	None		oleum Sheer ral Sheen	n	Sewage Solid Was	Other te/Debris	Submerged O	
Odor:	None		oleum /Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity:	None					Other	_Submerged.	.jpg
Color:	None						-Sampling Results	
Vegetation:	None	☐ Inhib	ited	Excessive			Sample Location:	
					7 Out-11	MI	Sample ID:	
Benthic Gro	wth: None	Gree	en ∐ t	Brown _	」Orange	Other	Time Collected:	
Stains:	None			Oil _	Rust Stains		Total Chlorine (field):	ppm
— Physical	Condition Asse		osion 🔲 F	Paint _	Other		Free Chlorine (field):	ppm
Graffiti:	None	SSITION					Total Copper (field):	ppm
Erosion:	None						Ammonia (field):	ppm
		Danth (in)					pH (field):	units
Depositio		Depth (in):					Temperature:	F
Damage:	None	Displacement	Undercut	Crus	hed		Detergents:	mg/L
		Corrosion	Concrete D	Damage			Phenol:	mg/L

Outfall ID: 09-101b US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.18.2010 11:18

o20100818111606.JPG

Outfall Notes:

Upstream manhole located approx 655 ft SSW of outfall 09-101b. Intermediate area consists of gravel parking area for industrial property.

County Coordinates: State Plane Coordinates:

Northing: 471,246 Northing: 736,754 Easting: 790,512 Easting: 2,350,623



Inspection Date: 8/18/2010	0 11:20:42 AM Inspector: JC	W Inspection Type:	Ongoing	Previous Rainfall (hrs): 72+	
Flow Description: Submerg	ged, slight flow Notes:				
Submerged: Partially	Depth (in): 30				
Illicit Discharge Potential:	Unlikely	Field Follow-up	Office Follow-up		
Floatables: None	Petroleum Sheen Natural Sheen	Suds Sewage Algae Solid Waste	Other		
Odor: None	Petroleum VOC/Solvent	☐ Musty ☐ Sewage ☐ Fishy ☐ Sulfur	☐ Chlorine ☐ Sour	08 18 2010 11	: 16
Turbidity: None			Other	o20100818111616.JPG	
Color: None			Г	Sampling Results	
Vegetation: None	Inhibited Exce	essive		Sample Location: Pool Sample ID: 100818-82	
Benthic Growth: None	Green Brow	vn Orange O	ther	Time Collected: 1120	
Stains: None	Flow Line Oil Corrosion Pain	Rust Stains t Other		Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm	
— Physical Condition Assessm Graffiti: None	ment			Total Copper (field): 0 ppm Ammonia (field): 0 ppm	
Erosion: None				pH (field): 7.88 units	
	epth (in):			Temperature: 73 °F	
Damage: None	Displacement Undercut Corrosion Concrete Dame	Crushed age		Detergents: 0 mg/L Phenol: 0 mg/L	

Outfall ID: 09-101b US1

Inspection Da	ate: 9/10/2009	Ins	spector: JCW	Inspection Type	e: Initial	Previous Rainfall (hrs):	72+
Flow Descrip	otion: Submerge	ed, slight flow	Notes:				
Submerged:	Partially D	Depth (in): 28					
Illicit Dischar	rge Potential: U	Inlikely	☐ Fi	eld Follow-up	Office Follow-up		
Floatables: N	None	Petroleu		uds Sewage	Other		
Odor: N	None	Petroleu VOC/So		usty	☐ Chlorine ☐ Sour		09 10 2009 11:17
Turbidity: N	None				Other	Osh09_DSCN	6780.JPG
Color: N	None				Γ	-Sampling Results	
Vegetation:	None	☐ Inhibited	_		Other	Sample Location: Flor Sample ID: 090	w 1910-05
			Brown	☐ Orange ☐	Other	Time Collected: 111	8
Stains: —Physical Co	None ondition Assessme	Flow Lin	_	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm 0 ppm
Graffiti: Erosion: Deposition:	•	pth (in): 0				Ammonia (field): pH (field): Temperature:	ppm 8.21 units 78 ℉
Damage:			ndercut () oncrete Damage	Crushed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 09-101c

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Box

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

☐ Not Physically Located

95 10 2009 10 44

Osh09_DSCN6774.JPG

Outfall Notes:

Outfall not physically screened - behind fence. May consist of three outfalls within one concrete box culvert.

County Coordinates: State Plane Coordinates:

Northing: 471,883 Northing: 737,393 Easting: 790,649 Easting: 2,350,748



Inspection	Date: 8/18/2	2010 11:01:01 AM Ir	spector:	JCW II	nspection Type:	Ongoing	Р	revious Rainfall (hrs):	72+
Flow Descr Submerged	•	nerged, indeterminate Depth (in):		,	submerged and Itfall screened up	, , ,			
Floatables:		Petrole	um Sheen I Sheen	Suds Algae	Sewage Solid Wast	_		Photo Not Av Submerged Ou	
Odor:	None	Petrole VOC/S	-	☐ Musty☐ Fishy	Sewage Sulfur	Chlorine Sour			
Turbidity:	None					Other		_Submerged.j	ipg
Color:	None						-Sa	mpling Results ———	
Vegetation:	None	Inhibite	ed E	xcessive				imple Location:	
Benthic Gro	wth: None	Green	□В	rown	Orange C	Other		imple ID: ne Collected:	
Stains:	None	☐ Flow L		oil	Rust Stains Other			etal Chlorine (field):	ррт ррт
Graffiti:	Condition Asse None	essment — —			-		To	otal Copper (field): nmonia (field):	ppm ppm
Erosion: Depositio	None n: None	Depth (in):					•	f (field):	units °F
Damage:		Displacement U	Indercut Concrete Da	Crush amage	ned		De	emperature: etergents: nenol:	mg/L mg/L

Outfall ID: 09-101c

Inspection	Date: 9/10/2	2009	nspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption:		Notes:					
Submerged	: Partially	Depth (in):						
Illicit Disch	arge Potential	: Potential		✓ Field F	ollow-up	Office Follow-up	Photo Not A	vailable
Floatables:	None		eum Sheer I Sheen	Suds Algae	Sewage Solid Wast	Other te/Debris	Submerged (
Odor:	None	Petrol	eum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		
Turbidity:	None					Other	_Submerge	d.jpg
Color:	None					Г	-Sampling Results	
Vegetation:	None	Inhibit	ed 🗆 E	Excessive			Sample Location:	
Benthic Gro		Green	_	Brown -	Oranga 🗆 C	Other	Sample ID:	
benunc Gro	win. Inone	Green		orown _	」Orange	uner	Time Collected:	
Stains:	None	Flow L		Dil _	Rust Stains		Total Chlorine (field):	ppm
⊢ Physical	Condition Asse	essment Corros	ion L F	Paint _	Other		Free Chlorine (field):	ppm
Graffiti:	None						Total Copper (field): Ammonia (field):	ppm
Erosion:	None						pH (field):	ppm units
Depositio	n: None	Depth (in):					Temperature:	erins F
Damage:	None		Jndercut Concrete D	Crusl	hed		Detergents: Phenol:	mg/L mg/L

Outfall ID: 09-101c US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

16.28.2018 08:18

o20101020093508.jpg

Outfall Notes:

Upstream manhole located approx 605 ft SSW of outfall 09-101c. Intermediate area consists of gravel parking area for industrial property.

County Coordinates: State Plane Coordinates:

Northing: 471,296 Northing: 736,804 Easting: 790,525 Easting: 2,350,634



Inspection	Date:	10/20/2010 9:35:3	7 AM In	spector:	JCW	Inspection Typ	e: Ongoing	Previous Rainfall (hrs):	72+
Flow Descr Submerged	•	Submerged, inde		Notes:	Floatable	debris in manho	ole.		
Illicit Disch	arge Po	otential: Potentia			Field	Follow-up	Office Follow-up		
Floatables:	Modera	ate		um Shee I Sheen	n 🗌 Suds 🗌 Alga		_		
Odor:	None		Petrole VOC/S	-	☐ Must	, = .	Sour		10 20 2010 09:35
Turbidity:	None						Other	02010102009	3518.jpg
Color:	None							Sampling Results	
Vegetation:		None	Inhibite	ed 🔲 I	Excessive			Sample Location: Poo	l 020-53
Benthic Gro	wth:	Slight	✓ Green		Brown	Orange] Other	Time Collected: 093	
Stains:		None	☐ Flow Li		Oil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i>
-Physical	Conditio	on Assessment —						Total Copper (field):	0 ppm 0 ppm
Graffiti:		one						Ammonia (field):	0 ppm
Erosion:	_	one D. H. (1.)						pH (field):	7.88 <i>units</i>
Depositio		one Depth (in):	_					Temperature:	55 °F
Damage:	i NO	one Displac		Indercut Concrete [ushed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 09-101c US1

Inspection Date: 9/11/2009	Inspector:	JCW Ir	spection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description: Submerged, inde	eterminate Notes:					
Submerged: None Depth (in	າ):					
Illicit Discharge Potential: Potentia	ıl	☐ Field Fo	ollow-up 🗌 C	Office Follow-up		
Floatables: Slight	✓ Petroleum Shee Natural Sheen	n	Sewage Solid Wast	✓ Other e/Debris		
Odor: None	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		09 11 2009 10:55
Turbidity: None]			Other	Osh09_DSCN	6891.JPG
Color: None]				-Sampling Results	
Vegetation: None	☐ Inhibited ☐	Excessive			Sample Location: Poo	
Benthic Growth: None	Green	Brown	Orange 🗌 O	ther	Sample ID: 090 Time Collected: 105	911-71
Stains: None	Flow Line	Oil _	Rust Stains		Total Chlorine (field):	0 ppm
	: cement Undercut	Paint	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	0 ppm 0 ppm ppm 8.13 units 74 °F 0 mg/L
Corros	ion	Damage			Phenol:	0 <i>mg/L</i>

Outfall ID: 09-317

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 18
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.18.2010 12:32

o20100818123248.JPG

Outfall Notes:

Outfall behind locked fence and likely submerged. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 472,280 Northing: 737,777 Easting: 789,920 Easting: 2,350,012

W 004TH [FQURTH) AVE

Location Map

Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/18/2010 12:41:20 PM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 09-Submerged: Fully Depth (in): 317 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 09-317 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - brick

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

-D8 18 2010 12-38

o20100818123302.JPG

Outfall Notes:

Upstream manhole located approx 70 ft W of outfall 09-317. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 472,288 Northing: 737,784 Easting: 789,850 Easting: 2,349,942

Location Map



Inspection Type: Ongoing Inspection Date: 8/18/2010 12:46:08 PM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 18 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other o20100818123350.JPG Turbidity: Slight cloudiness Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100818-84 Benthic Growth: None Orange Other Green Brown Time Collected: 1245 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.34 *units* Deposition: None Depth (in): 78 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 12-569

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 21
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08-19-2010 14:30

o20100819143022.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 479,314 Northing: 744,749 Easting: 786,529 Easting: 2,346,496

Location Map



8/19/2010 2:37:50 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 12-Submerged: Fully Depth (in): 569 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Suds Floatables: None Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-569 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010 14:84

o20100819143426.JPG

Outfall Notes:

Upstream manhole located approx 48 ft ESE of outfall 12-569. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 479,306 Northing: 744,742 Easting: 786,577 Easting: 2,346,543

Location Map



JCW Inspection Date: 8/19/2010 2:41:43 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Severe floatable debris Submerged: Fully Depth (in): 38 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Severe Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine 08.19.2010 14:34 VOC/Solvent Fishy Sulfur Sour Other o20100819143434.JPG Turbidity: None Faint in bottle Yellow Color: Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-30 Benthic Growth: None Orange Other Green Brown Time Collected: 1440 Stains: Slight ✓ Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.59 units Deposition: None Depth (in): 79 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-576

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 44

Width (in): 72

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100819133944.JPG

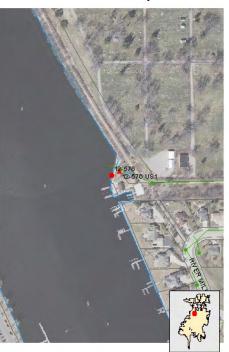
Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

746,525 Northing: 481,102 Northing: Easting: 785,877 Easting: 2,345,811





8/19/2010 1:47:19 PM Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 12-Submerged: Fully Depth (in): 576 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-576

Inspection	Date: 9	9/9/2009 In	spector:	JCW II	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption: S	Submerged, indeterminate	Notes:					
Submerged	Fully	Depth (in):						
Illicit Disch	arge Pote	ential: Potential		Field F	ollow-up 🔲 🔾	Office Follow-up	Photo Not Av	ailahle
Floatables:	None	Petrole Natura	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris	Submerged Ou	
Odor:	None	Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		
Turbidity:	None					Other	_Submerged.j	ipg
Color:	None						Sampling Results	
Vegetation:	No	one Inhibite	d □E:	xcessive			Sample Location:	
			_	_] 0,,,,,,,	14la	Sample ID:	
Benthic Gro	wtn: INC	one Green	☐ BI	rown	Orange O	ther	Time Collected:	
Stains:	No	one Flow Li		_	Rust Stains		Total Chlorine (field):	ppm
⊢ Physical	Condition	Assessment Corros	on \square Pa	aint _	Other		Free Chlorine (field):	ppm
Graffiti:	None						Total Copper (field):	ppm
Erosion:	None						Ammonia (field):	ppm
Depositio							pH (field):	units
Deposition Damage:	None						Temperature:	°F
Damage.	INOTIE	Displacement C	Indercut	Crush	ned		Detergents:	mg/L
		Corrosion C	oncrete Da	amage			Phenol:	mg/L

Outfall ID: 12-576 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

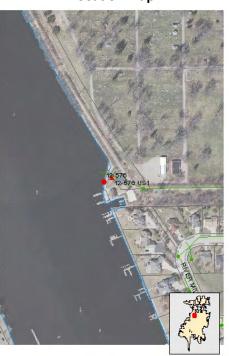
o20100819134154.JPG

Outfall Notes:

Upstream manhole located approx 52 ft ENE of outfall 12-576. Intermediate area consists of residential lawn area and shoreline.

County Coordinates: State Plane Coordinates:

Northing: 481,123 Northing: 746,545 Easting: 785,916 Easting: 2,345,849



Inspection	Date:	8/19/2010 1:50:40	PM Inspector	: JCW I	Inspection Type:	Ongoing	Previous Rainfall (hrs)	: 72+
Flow Desci	ription	Submerged, inde	terminate Notes	:				
Submerged	: Fully	Depth (in): 72					
Illicit Disch	arge P	otential: Unlikely		Field F	ollow-up	Office Follow-up		1
Floatables:	None		Petroleum She	en Suds	Sewage Solid Wast	Other		
Odor:	None		Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		10 1 20 10 10 10 10 10 10 10 10 10 10 10 10 10
Turbidity:	None					Other	o2010081913	34200.JPG
Color:	Faint	n bottle	Brown				Sampling Results ——	
Vegetation:		None	Inhibited	Excessive			Sample Location: Po	ol 0819-07
Benthic Gro	wth:	Moderate	✓ Green] Brown	Orange 🗌 O	ther	Time Collected: 13	
Stains:	Candit	Slight	Flow Line Corrosion] Oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti:		ion Assessment — one					Total Copper (field):	0 ppm
Erosion:		one					Ammonia (field):	0 ppm
Deposition		one Depth (in):					pH (field): Temperature:	7.85 <i>units</i> 76 °F
Damage:		one Displac Corrosi	ement Undercut	Crus	hed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 12-576 US1

Inspection D	ate: 9/9/	2009 In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descrip Submerged:	•	Depth (in): 68	Notes:		detergent analysis Significant floatal			
Illicit Dischai	rge Potenti	ial: Potential			Follow-up	Office Follow-up		
Floatables: S	Severe		um Sheer Sheen	Suds		Other e/Debris		10
Odor:	None	Petrole VOC/S	-	☐ Must	· = ·	Chlorine Sour		9 95 2009 08:20
Turbidity:	None					Other	Osh09_DSCN6	6675.JPG
Color:	None					Γ	Sampling Results	
Vegetation:	None		_	excessive			Sample Location: Pool Sample ID: 0909	l 909-12
Benthic Grow	vth: None	Green	<u> </u>	Brown	Orange O	ther	Time Collected: 0820	0
Stains:	None	Corrosi		Dil Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
Graffiti: Erosion: Deposition:	None None	Depth (in): 0					Total Copper (field): Ammonia (field): pH (field): Temperature:	0 ppm ppm 8.46 units 69 °F
Damage:	None		Indercut Concrete D		shed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 12-889

Minor Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

PVC

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

DB. 19.2010 13:19

o20100819131906.JPG

Outfall Notes:

30" ABS pipe. Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 482,268 Northing: 747,681 Easting: 785,402 Easting: 2,345,315



Inspection Date: 8/19/2010 1:28:48 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Outfall partially submerged. Outfall screened Flow Description: Submerged, slight flow Notes: upstream at 12-889 US1. Submerged: Partially Depth (in): 10 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage VOC/Solvent Fishy Sulfur Sour o20100819131934.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: Slight ✓ Green Orange Other **✓** Brown Time Collected: ✓ Flow Line Stains: Slight Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-889 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - brick

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010 13:29

o20100819132918.JPG

Outfall Notes:

Upstream catchbasin located approx 363 ft NE of outfall 12-889. Intermediate area consists of open space in cemetery.

County Coordinates: State Plane Coordinates:

Northing: 482,459 Northing: 747,878 Easting: 785,711 Easting: 2,345,620

Location Map



JCW Inspection Date: 8/19/2010 1:34:29 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Moderate Notes: Pool in catchbasin, but sample collected from free flow from incoming pipe. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100819132934.JPG Turbidity: None Sampling Results Color: None Sample Location: Flow Vegetation: Inhibited None Excessive Sample ID: 100819-22 Benthic Growth: None Orange Other Green Brown Time Collected: 1336 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.77 units Deposition: None Depth (in): 77 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 12-890

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 36
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100819130154.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map. 36" CMP leaving upstream catchbasin.

County Coordinates: State Plane Coordinates:

Northing: 482,186 Northing: 747,598 Easting: 785,317 Easting: 2,345,231

Location Map



Inspection	Date: 8/19/20	010 1:09:32 PM Ir	spector:	JCW I	nspection Type:	Ongoing	Pre	evious Rainfall (hrs): 7	2+
Flow Descri Submerged	•	erged, indeterminate Depth (in):	Notes:	located. Óu	submerged and utfall screened up Algae in recieving	ostream at 12-			
Illicit Disch Floatables:	sarge Potential:	Petrole	eum Sheen I Sheen	_	ollow-up	Office Follow-up Other te/Debris		Photo Not Ava	
Odor:	None	Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour			
Turbidity:	None					Other		_Submerged.jp	og
Color: Vegetation: Benthic Gro		☐ Inhibite☐ ☐ Green		excessive Brown] Orange	Other	San San	pling Results ————————————————————————————————————	
Stains: - Physical Graffiti: Erosion: Depositio Damage:		Depth (in):		Paint	Rust Stains Other		Free Tota Ami pH Ten	al Chlorine (field): e Chlorine (field): al Copper (field): monia (field): (field): nperature: ergents: nol:	ppm ppm ppm ppm units °F mg/L mg/L

Outfall ID: 12-890 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010 13:08

o20100819130854.JPG

Outfall Notes:

Upstream inlet located approx 190 ft NE of outfall 12-890. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 482,309 Northing: 747,723 Easting: 785,463 Easting: 2,345,376

Location Map



8/19/2010 1:15:01 PM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Log in catchbasin. Small oil spots in pool, possibly from road. Submerged: Partially Depth (in): 2 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Slight ✓ Petroleum Sheen Suds Sewage Other ✓ Natural Sheen Solid Waste/Debris Algae Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent Fishy ✓ Sulfur Sour Other o20100819130900.JPG Turbidity: Slight cloudiness Sampling Results Color: None Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100819-54 Benthic Growth: None Orange Other Green Brown Time Collected: 1315 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 1 ppm Erosion: None pH (field): 7.33 *units* Deposition: None Depth (in): 77 °F Temperature: Damage: Minor Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-972

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

PVC

Dimensions

Diameter (in): 15 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

483,018 748,424 Northing: Northing: Easting: 784,996 Easting: 2,344,896



Location Map

Inspection Type: Ongoing Inspection Date: 8/19/2010 12:25:21 PM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Attempted to screen upstream at Submerged: Fully Depth (in): 12-972 US1. Algae in receiving pool. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: Severe Petroleum Sheen Suds Sewage Other **Submerged Outfall** Natural Sheen ✓ Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-972 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010.12.54

o20100819125436.JPG

Outfall Notes:

Upstream manhole located approx 326 ft ENE of outfall 12-972. Intermediate area consists of open space in cemetery.

County Coordinates: State Plane Coordinates:

Northing: 483,136 Northing: 748,547 Easting: 785,300 Easting: 2,345,198

Location Map



JCW Inspection Date: 8/19/2010 12:54:00 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Notes: Lid stuck - could not screen. Upstream locations not valid screening locations. Submerged: Depth (in): Location provided to City for assistance. Illicit Discharge Potential: Unlikely Office Follow-up ✓ Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100819125440.JPG Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: Moderate ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-997

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 31

Width (in): 40

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

2010 14:13

o20100819141324.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map. Inaccessable from retaining wall.

County Coordinates: State Plane Coordinates:

Northing: 480,264 Northing: 745,692 Easting: 786,185 Easting: 2,346,134

Location Map



Inspection Da	ite: 8/19/2010 2:21:36	PM Inspector	: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descript Submerged: F	tion: Submerged, indet Fully Depth (in)			y submerged and Outfall screened u	, , ,		
Illicit Discharg	one	Petroleum She	een Suds	Sewage Solid Was		Photo Not A	
Odor: No	one	☐ Petroleum☐ VOC/Solvent	☐ Musty ☐ Fishy		☐ Chlorine☐ Sour		
Turbidity: No	one				Other	_Submerge	d.jpg
Color: No Vegetation: Benthic Growth	None None	☐ Inhibited ☐☐☐ Green ☐	Excessive Brown	☐ Orange ☐ C	Other	Sampling Results Sample Location: Sample ID: Time Collected:	
Stains: - Physical Color Graffiti: Erosion: Deposition: Damage:	None None None None None Depth (in): None Displace Corrosic	=	Oil [] Paint [] t	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units *F mg/L mg/L

Outfall ID: 12-997 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

VA 712 X010 1X 1X

o20100819141730.JPG

Outfall Notes:

Upstream manhole located approx 27 ft ENE of outfall 12-997. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 480,278 Northing: 745,706 Easting: 786,208 Easting: 2,346,156

Location Map



JCW Inspection Type: Ongoing Previous Rainfall (hrs): Inspection Date: 8/19/2010 2:24:25 PM Inspector: 72+ Flow Description: Submerged, indeterminate Notes: Floatables in photo are grass clippings from opening manhole. Submerged: Fully Depth (in): 35 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine 08.19.2010 14:17 Fishy Sulfur Sour Other o20100819141742.JPG Turbidity: None Faint in bottle Sampling Results Color: Green Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-56 Benthic Growth: Slight Orange Other Green **✓** Brown Time Collected: 1425 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.36 units Deposition: None Depth (in): 79 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-1313

Minor Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

PVC

Dimensions

Diameter (in): 18
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100819120152.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 483,844 Northing: 749,241 Easting: 784,510 Easting: 2,344,395

Location Map



Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/19/2010 12:09:32 PM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 12-Submerged: Fully Depth (in): 1313 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 12-1313 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

OB. 16: 2010 12:04

o20100819120410.JPG

Outfall Notes:

Upstream catchbasin located approx 252 ft ENE of outfall 12-1313. Intermediate area consists of open space and cemetery road.

County Coordinates: State Plane Coordinates:

Northing: 483,924 Northing: 749,326 Easting: 784,749 Easting: 2,344,632

Location Map



8/19/2010 12:12:14 PM Inspector: Inspection Date: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 15 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100819120420.JPG Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-03 Benthic Growth: Slight **✓** Brown Orange Other Green Time Collected: 1210 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.38 *units* Deposition: None Depth (in): 78 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 13-3099

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 38

Width (in): 60

Mapping Precison:

Mapping GPS

☐ Not Physically Located

D8. 28 8010 C - 80

o20100826135004.JPG

Outfall Notes:

Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 470,154 Northing: 735,367 Easting: 774,093 Easting: 2,334,226



Inspection	Date:	8/26/2010 2:00:57	'PM Inspecto	r: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr Submerged:	•	: Submerged, sligh ially Depth (in			ially submerged. at 13-3099 US1.	Outfall screened		
Illicit Disch	arge P	otential: Unlikely		Field F	Follow-up	Office Follow-up	1	
Floatables:	None		Petroleum Sh Natural Sheer	=	Sewage Solid Was	Other te/Debris		
Odor:	None		Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		08 26 Jan 133 m
Turbidity:	None					Other	o201008261350	010.JPG
Color:	None					Г	Sampling Results ———	
Vegetation:		None	Inhibited	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth:	Moderate	✓ Green	✓ Brown	Orange C	Other	Time Collected:	
Stains:		Moderate	Flow Line Corrosion	Oil [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ррт ррт
-Physical (Conditi	ion Assessment —					Total Copper (field):	ррт
Graffiti:		one					Ammonia (field):	ррт
Erosion:		one					pH (field):	units
Depositio		one Depth (in):					Temperature:	F
Damage:	IN	Displac		ut Crus te Damage	shed		Detergents: Phenol:	mg/L mg/L

Outfall ID: 13-3099

Inspection	Date:	9/3/2009	In	spector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged		: Submerged, inde ially Depth (in		Notes:	Sulfide ode	or, slight oil sheen	in pool.		1
Illicit Disch	arge P	otential: Potentia	I		Field	Follow-up (Office Follow-up	100	10
Floatables:	Slight		Petrole Natural	um Sheel Sheen	n 🗌 Suds 🗌 Algae	Sewage Solid Wast	Other		
Odor:	Faint		Petrole VOC/Se	-	☐ Musty ☐ Fishy	= •	☐ Chlorine ☐ Sour		29 25 200 15-44
Turbidity:	None						Other	Osh09_DSCN6	451.JPG
Color:	None							Sampling Results ———	
Vegetation:		None	Inhibite	d	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth:	Slight	✓ Green	I	Brown	Orange O	Other	Time Collected:	
Stains:		Slight	Flow Lin		Oil [Paint [Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Graffiti:	N	ion Assessment — one						Total Copper (field): Ammonia (field):	ppm ppm
Erosion: Depositio		one Depth (in):	0					pH (field):	units
Damage:		one Deptir (iii). one Displac Corrosi	ement 🔲 U	ndercut oncrete [_	shed		Temperature: Detergents: Phenol:	°F mg/L mg/L

Outfall ID: 13-3099 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.28 2010 13:31

o20100826133118.JPG

Outfall Notes:

Upstream manhole located approx 54 ft W of outfall 13-3099. Intermediate area consists of street right-of-way and pond embankment.

County Coordinates: State Plane Coordinates:

Northing: 470,146 Northing: 735,357 Easting: 774,040 Easting: 2,334,173



Inspection Date: 8/26/2010 1:46:40	6 PM Inspector: JCW Inspection Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged, inde	eterminate Notes:	
Submerged: Partially Depth (in	n): 2	
Illicit Discharge Potential: Unlikely	Field Follow-up Office Follow-u	
Floatables: None	Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris	
Odor: Faint	☐ Petroleum ✓ Musty ☐ Sewage ☐ Chlorine ☐ VOC/Solvent ☐ Fishy ☐ Sulfur ☐ Sour	08 29: 2010 13 at
Turbidity: None	Other	o20100826133132.JPG
Color: None		Sampling Results
Vegetation: None	☐ Inhibited ☐ Excessive	Sample Location: Pool Sample ID: 100826-56
Benthic Growth: None	Green Brown Orange Other	Time Collected: 1340
Stains: None	Flow Line Oil Rust Stains Corrosion Paint Other	Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm
Physical Condition Assessment — Graffiti: None Erosion: None		Total Copper (field): 0 ppm Ammonia (field): 0 ppm
Deposition: None Depth (in)	:	pH (field): 7.29 <i>units</i> Temperature: 83 F
Domogo: None —	cement Undercut Crushed	Detergents: 0 mg/L Phenol: 0 mg/L

Outfall ID: 13-3099 US1

Inspection	Date: 9/3/	2009	Inspector:	JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption: Sub	omerged, indeterminat	e Notes:					
Submerged	: Partially	Depth (in): 2						
Illicit Disch	arge Potent	ial: Potential		Field F	ollow-up	Office Follow-up		
Floatables:	Slight		oleum Shee ıral Sheen	n	Sewage Solid Wast	Other		
Odor:	None		oleum C/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09 03 2009 13 50
Turbidity:	None					Other	Osh09_DSCN	6454.JPG
Color:	None					Г	-Sampling Results ———	
Vegetation: Benthic Gro	None wth: None		_	Excessive Brown	☐ Orange ☐ C	other		903-34L
Stains:	None Condition As	Cor		Oil [Rust Stains Other		Time Collected: 134 Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti: Erosion: Depositio Damage:	None None	Depth (in): 0	Undercut	☐ Crus	hed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	0 ppm ppm 7.43 units 73 °F 0 mg/L
		Corrosion	Concrete [Damage			Phenol:	0 mg/L

Outfall ID: 14-331

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 31

50

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

a l'aute

o20100817123200.JPG

Outfall Notes:

Outfall fully submerged. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 465,635 Northing: 731,199 Easting: 793,570 Easting: 2,353,781

Location Map



JCW Inspection Date: 8/17/2010 12:37:30 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Lake level one inch above crown of pipe. Flow Description: Submerged, indeterminate Notes: Outfall screened upstream at 14-331 US1. Submerged: Fully Depth (in): 32 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine 08.17.2010 12:33 Fishy Sulfur Sour o20100817123314.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: Moderate Orange Other ✓ Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 14-331

Inspection	Date: 9/9/2	009	Inspector:	JCW Ir	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Desci	ription: Subr	nerged, indeterminate	Notes:					
Submerged	: Partially	Depth (in): 30					The second second	
Illicit Disch	arge Potentia	I: Unlikely		Field Fo	ollow-up 🗌 (Office Follow-up		
Floatables:	None		oleum Sheer ral Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris		
Odor:	None		oleum /Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine☐ Sour		09.09.2009 12:25
Turbidity:	None					Other	Osh09_DSCN6	727.JPG
Color:	None						-Sampling Results	
Vegetation:	None	Inhib	ited 🗌 E	Excessive			Sample Location:	
Benthic Gro	wth: None	☐ Gree	n 🗌 E	Brown	Orange 🗌 C	ther	Sample ID: Time Collected:	
Stains:	None	Flow	Line 🔲 C	Dil _	Rust Stains		Total Chlorine (field):	ppm
— Physical Graffiti: Erosion: Depositio Damage:		Depth (in): 0 Displacement Corrosion		Paint Crush Damage	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units °F mg/L mg/L

Outfall ID: 14-331 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

021 17 2010 12:41

o20100817123524.JPG

Outfall Notes:

Upstream manhole located approx 29 ft W of outfall 14-331. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 465,639 Northing: 731,202 Easting: 793,540 Easting: 2,353,751

Location Map



Inspection Date:	8/17/2010 12:40:43 PM	Inspector: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Description	n: Submerged, indeterminate	Notes:				
Submerged: Ful	ly Depth (in): 25					
Illicit Discharge	Potential: Unlikely	Field	d Follow-up	Office Follow-up	THE PROPERTY OF THE PARTY OF TH	- ,
Floatables: Sligh		eleum Sheen 🗌 Sud		Other		
Odor: None		leum Mus /Solvent Fish	, = ,	Chlorine Sour		45 17 40 12:35
Turbidity: None	9			Other	o20100817123	3534.JPG
Color: None	9				Sampling Results	
Vegetation:	None	ited Excessive			Sample Location: Pool Sample ID: 100	I 817-08
Benthic Growth:	None Gree	n 🗌 Brown	Orange C	other	Time Collected: 124	
Stains:	None Flow Corro		Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Physical Cond	ition Assessment —————				Total Copper (field):	0 ppm
	None				Ammonia (field):	0 ppm
	None Donth (in):				pH (field):	7.52 units
	None Depth (in):				Temperature:	79 °F
Damaye. 1	Displacement Corrosion	Undercut Cr Concrete Damage	ushed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 14-331 US1

Inspection Date: 9/9	9/2009 Ins	spector: JO	CW Inspection	Type: Initial	Previous Rainfall (hrs): 72+
Flow Description: Su	ıbmerged, indeterminate	Notes: SI	light green color.		
Submerged: Partially	Depth (in): 23				N. C. C.
Illicit Discharge Potent	tial: Unlikely	[Field Follow-up	Office Follow-up	
Floatables: None	☐ Petrolei☐ Natural	um Sheen [Sheen [vage	
Odor: None	Petrole		☐ Musty ☐ Sew ☐ Fishy ☐ Sulf	vage Chlorine fur Sour	01 11 2869 09 32
Turbidity: None				Other	Osh09_DSCN6859.JPG
Color: None					Sampling Results
Vegetation: None	e Inhibite	d 🗌 Exc	essive		Sample Location: Pool
Benthic Growth: None	e Green	☐ Bro	wn Orange	Other	Sample ID: 090909-53 Time Collected: 1230
Stains: None		_	Rust Sta	ains	Total Chlorine (field): 0 ppm
Physical Condition As Graffiti: None Erosion: None Deposition: None Damage: None	Depth (in): 0	on ∐ Pair	nt Other		Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm pH (field): 8.96 units Temperature: 80 F Detergents: 0 mg/L
	☐ Corrosion ☐ C	oncrete Dam	nage		Phenol: 0 mg/L

Outfall ID: 14-368

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 24
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.17.2010 18.07

o20100817130726.JPG

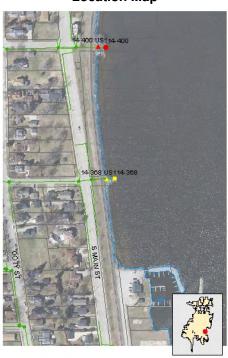
Outfall Notes:

Outfall fully submerged. Pipe diameter and shape estimated.

County Coordinates: State Plane Coordinates:

Northing: 466,571 Northing: 732,128 Easting: 793,200 Easting: 2,353,394

Location Map



Inspector: Inspection Type: Ongoing Inspection Date: 8/17/2010 1:13:06 PM **JCW** Previous Rainfall (hrs): 72+ Outfall fully submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 14-368 US1. Lake level at Submerged: Fully Depth (in): crown of pipe Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine 08.17.2010 13:07 Fishy Sulfur Sour o20100817130746.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 14-368 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

o20100817131114.JPG

Outfall Notes:

Upstream manhole located approx 39 ft W of outfall 14-368. Intermediate area consists of open space along shoreline.

County Coordinates: State Plane Coordinates:

Northing: 466,570 Northing: 732,126 Easting: 793,162 Easting: 2,353,356

Location Map



Inspection Date: 8/17/2010 1:18:11 PM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 18 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Chlorine None Petroleum Musty Sewage Fishy Sulfur Sour o20100817131258.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100817-50 Benthic Growth: None Orange Other Green Brown Time Collected: 1320 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 8.6 units Deposition: None Depth (in): 75 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 14-400

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 36 Width (in): 58

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.37.2010.66 8

o20100817132634.JPG

Outfall Notes:

Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 467,212 Northing: 732,768 Easting: 793,167 Easting: 2,353,349

Location Map



Inspector: Inspection Date: 8/17/2010 1:35:34 PM **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Outfall partially submerged. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 14-400 US1. Submerged: Partially Depth (in): 17 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100817132746.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: Moderate Orange Other ✓ Green **✓** Brown Time Collected: Stains: Moderate ✓ Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: Minor ☐ Displacement ☐ Undercut Crushed Detergents: mg/L **✓** Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 14-400

Inspection	Date: 9/9/2	009	In	spector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descri Submerged	ription: Subr : Partially	merged, inde Depth (in		Notes:	•	ally submerged. t 14-400 US1.	Outfall screened		ANN
Illicit Disch	arge Potentia	l: Unlikely			Field F	ollow-up	Office Follow-up		
Floatables:	None			eum Sheer I Sheen	Suds Algae	Sewage Solid Was	Other	A STATE OF THE STA	
Odor:	None		Petrole VOC/S	-	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		00 00 2000 12744
Turbidity:	None						Other	Osh09_DSCN6	730.JPG
Color:	None						Γ	-Sampling Results	
Vegetation:	None		Inhibite	ed 🗌 E	Excessive			Sample Location: Sample ID:	
Benthic Gro	wth: Slight		✓ Green	E	Brown	Orange 🗌 0	Other	Time Collected:	
Stains:		essment — Depth (in):	_	ion	Dil	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature:	ppm ppm ppm ppm units *F
Damage.	WIIIO	☐ Displace ✓ Corrosic		Jndercut Concrete D	Crusl	ned		Detergents: Phenol:	mg/L mg/L

Outfall ID: 14-400 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100817133202.JPG

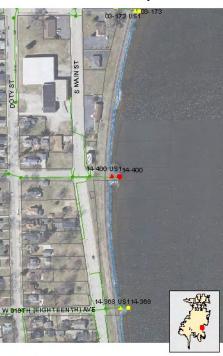
Outfall Notes:

Upstream manhole located approx 38 ft W of outfall 14-400. Intermediate area consists of wooded shoreline.

County Coordinates: State Plane Coordinates:

Northing: 467,219 Northing: 732,774 Easting: 793,129 Easting: 2,353,312

Location Map



Inspection	Date:	8/17/2010 1:39:35	PM Ins	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr Submerged	-	Submerged, inde		Notes:					-
Illicit Disch	arge F	otential: Unlikely			Field	Follow-up	Office Follow-up	a L	
Floatables:	None		Petrolet Natural	ım Shee Sheen	n 🗌 Suds 🗌 Algae	= -	Other te/Debris		E.
Odor:	None		Petrole		☐ Must ☐ Fishy	, = ,	Chlorine Sour		05\17 2010 131.62
Turbidity:	None						Other	0201008171332	?10.JPG
Color:	None						[-Sampling Results	
Vegetation:		None	Inhibited	d 🗌	Excessive			Sample Location: Pool Sample ID: 1008	17-67
Benthic Gro	wth:	None	Green		Brown	Orange 0	Other	Time Collected: 1340	
Stains:		Moderate	Flow Lir		Oil Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
		ion Assessment —						Total Copper (field):	0 ppm
Graffiti:		one						Ammonia (field):	0 ppm
Erosion:		one						pH (field):	7.9 units
Depositio		one Depth (in):						Temperature:	76 °F
Damage:	IN	Offe Displac Corrosi		ndercut oncrete [ished		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 14-400 US1

Inspection	Date: 9/9/2	009 I	nspector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr Submerged	-	merged, indeterminate Depth (in): 8	Notes:					
Illicit Disch	arge Potentia	l: Unlikely		☐ Field F	ollow-up	Office Follow-up	NA 8	
Floatables:	None		eum Sheen I Sheen	Suds Algae	Sewage Solid Wast	Other		19
Odor:	None	Petrol	eum Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour	41.4	09 09 2009 12 48
Turbidity:	None					Other	Osh09_DSCN	6733.JPG
Color:	None						-Sampling Results	
Vegetation:	None	Inhibit	ed 🗌 E	xcessive			Sample Location: Poo	
Benthic Gro	wth: None	☐ Green		Brown _	Orange 🗌 C	other	Sample ID: 090 Time Collected: 125	909-58
Stains:	None	☐ Flow L		Oil Paint	Rust Stains Other		Total Chlorine (field):	0 ppm
-Physical	Condition Ass			ant _	Jouren		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti:	None						Ammonia (field):	ppm
Erosion:	None						pH (field):	8.88 <i>units</i>
Depositio		Depth (in): 0					Temperature:	80 °F
Damage:	None		Jndercut Concrete D	Crush amage	ned		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 14-595

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Basin Name:

Gallups/Merritts Creek

Dimensions

Diameter (in):

Height/Depth (in): 22 Width (in): 38

Mapping Precison:

☐ Not Physically Located



Osh09_DSCN6530.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 14-595 US1.

County Coordinates: State Plane Coordinates:

724,254 Northing: 458,732 Northing: Easting: 791,162 Easting: 2,351,498





Inspection Date: 8/26/2010	Inspector: JC	CW Inspection	Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged: Depth (in):	14	ctual outfall not scre 4-595 US1 in 2009 - anhole re-screened		in
Illicit Discharge Potential: Unlikely		Field Follow-up	Office Follow-u	Photo Not Available
	leum Sheen [al Sheen [= =	vage	
Odor: Petro	leum [/Solvent [☐ Musty ☐ Sew ☐ Fishy ☐ Sulf	vage Chlorine fur Sour	
Turbidity:			Othe	
Color:				Sampling Results
Vegetation: Inhib	ited Exc	essive		Sample Location:
Benthic Growth:	_		Other	Sample ID:
				Time Collected
Stains:		Rust Sta	ains	Total Chlorine (field): ppm
Physical Condition Assessment — Corro	sion	nt Other		Free Chlorine (field): ppm
Graffiti:				Total Copper (field): ppm Ammonia (field): ppm
Erosion:				pH (field): units
Deposition: Depth (in):				Temperature:
Damage: Displacement	Undercut	Crushed		Detergents: mg/L
☐ Corrosion ☐	Concrete Dam	nage		Phenol: mg/L

Outfall ID: 14-595

Inspection Date: 9/4/2009 In	spector: JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Description: Submerged, indeterminate	Notes:				
Submerged: Partially Depth (in): 7					
Illicit Discharge Potential: Potential	F	Field Follow-up	Office Follow-up		20
		Suds Sewage Algae Solid Wast	Other e/Debris		
Odor: Petrole VOC/S		Musty Sewage Fishy Sulfur	Chlorine Sour	0 100 00010	09.04.2009 13:12
Turbidity:			Othe	Osh09_DSCN6	531.JPG
Color:				Sampling Results	
Vegetation: Inhibite	ed 🗌 Excessi	ive		Sample Location: Pool	
Benthic Growth: Slight ✓ Green	Brown	Orange C	other	Sample ID: 0909 Time Collected 1315	004-03
Stains: Flow L	_	☐ Rust Stains☐ Other		Total Chlorine (field):	0 ppm
Physical Condition Assessment				Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti: None				Ammonia (field):	ррт
Erosion: None				pH (field):	7.57 units
Deposition: Depth (in): 0				Temperature:	71 <i>℉</i>
	Jndercut Concrete Damage	Crushed		Detergents: Phenol:	0 <i>mg/L</i> 0 <i>mg/L</i>

Outfall ID: 14-595 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

MS4 Stormwater Facility

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100826130406.JPG

Outfall Notes:

Upstream manhole located approx 649 ft W of outfall 14-595. Intermediate area consists of open space and fenced stormwater pond.

County Coordinates: State Plane Coordinates:

Northing: 458,741 Northing: 724,251 Easting: 790,513 Easting: 2,350,848

Location Map



Inspection Date: 8/2	26/2010 1:14:52 PM Inspec	ctor: JCW Inspec	ction Type: C	Ongoing	Previous Rainfall (hrs):	72+
Flow Description: Tr Submerged: None	rickle No	otes: Rescreened due oil. Shallow flow		0		
Illicit Discharge Poter	ntial: Unlikely	Field Follow	r-up Off	fice Follow-up		
Floatables: None	Petroleum		Sewage Solid Waste/	Other /Debris		
Odor: None	Petroleum VOC/Solve	= ' =	Sewage Sulfur	☐ Chlorine ☐ Sour		08, 26, 2010, 13, 64
Turbidity: None				Other	o20100826130 ₄	414.JPG
Color: None					Sampling Results ———	
Vegetation: Non Benthic Growth: Non		Excessive Brown Ora	ange 🗌 Oth	ner	Sample Location: Sample ID: Time Collected:	
Stains: Non			st Stains		Total Chlorine (field):	0 ppm
Physical Condition A Graffiti: None Erosion: None Deposition: None Damage: None	Depth (in):	Paint Oth	er		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm 0 ppm units F mg/L mg/L

Outfall ID: 14-595 US1

Inspection	Date: 9/4/2009	Inspector:	JCW Ins	spection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descri Submerged	ription: None : None Dep	Notes:	Wet, no flow. manhole.	Slight oil sheer	n in pool in		
Illicit Disch	arge Potential: Pot	ential	Field Fol	llow-up	Office Follow-up		
Floatables:	Slight	✓ Petroleum Shee □ Natural Sheen	en	Sewage Solid Wast	Other e/Debris		
Odor:	None	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour		09.04.2009 13:28
Turbidity:	None				Other	Osh09_DSCN6	6535.JPG
Color:	None				Г	Sampling Results ———	
Vegetation: Benthic Gro	None wth: None	☐ Inhibited ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Excessive Brown	Orange 🗌 O	Other	Sample Location: Sample ID: Time Collected:	
Stains:	None	Flow Line	_	Rust Stains		Total Chlorine (field):	ppm
Graffiti: Erosion: Depositio Damage:	None Dis	(in): 0 splacement Undercut rrosion Concrete	Crushe	Other		Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm units °F mg/L mg/L

Outfall ID: 14-676

Major Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100826123640.JPG

Outfall Notes:

30 inch CMP discharges into west culvert.

County Coordinates: State Plane Coordinates:

Northing: 459,937 Northing: 725,467 Easting: 791,621 Easting: 2,351,935



JCW Inspection Type: Other Inspection Date: 8/26/2010 1:00:18 PM Inspector: Previous Rainfall (hrs): 72+ Flow Description: Moderate Notes: Sample consists of sheen skimmed from surface of downstream pool. Submerged: None Depth (in): Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage ✓ Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100826123758.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100826-85 Benthic Growth: None Orange Other Green Brown Time Collected: 1240 Rust Stains Stains: Moderate Flow Line Oil Total Chlorine (field): 0 ppm **✓** Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 8.52 units Deposition: None Depth (in): 76 °F Temperature: None Damage: ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Phenol: Corrosion Concrete Damage 0 mg/L

Outfall ID: 14-676

Inspection Date: 8/26/2010 12:58:	18 PM Inspector: JCW Inspection Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Moderate	Notes: Persistent suds and gel-like sheen downstream	
Submerged: None Depth (in	n):	
Illicit Discharge Potential: Potentia	Field Follow-up Office Follow-up	
Floatables: Moderate	Petroleum Sheen 🗹 Suds 🗌 Sewage 🗸 Other	
	☐ Natural Sheen ☐ Algae ☐ Solid Waste/Debris	market of or
Odor: None	Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour	
Turbidity: None		o20100826123658.JPG
,	_ 	Constitute Paralle
Color: None		Sampling Results ————————————————————————————————————
Vegetation: None	☐ Inhibited ☐ Excessive	Sample Location: Flow Sample ID: 100826-52
Benthic Growth: None	Green Brown Orange Other	Time Collected: 1240
Stains: Moderate	☐ Flow Line ☐ Oil ☐ Rust Stains	Total Chlorine (field): 0 ppm
☐ Physical Condition Assessment —	✓ Corrosion ☐ Paint ☐ Other	Free Chlorine (field): 0 ppm
Graffiti: None		Total Copper (field): 0 ppm
Erosion: None		Ammonia (field): 0 ppm pH (field): 8.3 units
Deposition: None Depth (in)	:	Temperature: 78 °F
Damage: None Displace	cement Undercut Crushed	Detergents: 0 mg/L
☐ Corros	ion Concrete Damage	Phenol: 0 mg/L
_ '	ion Concrete Damage	Filefioi. 0 mg/L
Corros Inspection Date: 9/4/2009	Inspector: JCW Inspection Type: Initial	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (Suds) No detergent detected	<u> </u>
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected.	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (ii Illicit Discharge Potential: Potential)	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up Office Follow-up	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. □ Field Follow-up □ Office Follow-up □ Petroleum Sheen ☑ Suds □ Sewage □ Other	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential: Floatables: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Pield Follow-up ☐ Office Follow-up ☐ Petroleum Sheen ☑ Suds ☐ Sewage ☐ Other ☐ Natural Sheen ☐ Algae ☐ Solid Waste/Debris	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (ii Illicit Discharge Potential: Potential Floatables: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Pield Follow-up Office Follow-up Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential: Floatables: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Pield Follow-up Office Follow-up Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris Petroleum Musty Sewage Chlorine	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential Floatables: Moderate Odor: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up Office Follow-up Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour	Previous Rainfall (hrs): 72+
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up Office Follow-up Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None	Inspector: JCW	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up Office Follow-up Petroleum Sheen Suds Sewage Other Natural Sheen Algae Solid Waste/Debris Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate Physical Condition Assessment Graffiti: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate Physical Condition Assessment Graffiti: None Erosion: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm pH (field): 8.32 units
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate Physical Condition Assessment Graffiti: None Erosion: None Deposition: None Depth (in)	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Petroleum Sheen	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm pH (field): 8.32 units Temperature: 78 %
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (in Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate Physical Condition Assessment Graffiti: None Erosion: None Deposition: None Depth (in)	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Petroleum Sheen	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm pH (field): 8.32 units

Outfall ID: 14-1075

Minor Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

58.13-2010 12:A2

o20100817124250.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 465,360 Northing: 730,923 Easting: 793,524 Easting: 2,353,740

Location Map



Inspection Type: Ongoing Inspection Date: 8/17/2010 12:48:49 PM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 14-Submerged: Fully Depth (in): 1075 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 14-1075 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

Na 15 2010 12 25

o20100817124340.JPG

Outfall Notes:

Upstream curb inlet located approx 88 ft WNW of outfall 14-1075. Intermediate area consists of open space and paved parking lot.

County Coordinates: State Plane Coordinates:

Northing: 465,387 Northing: 730,949 Easting: 793,443 Easting: 2,353,658

Location Map



JCW Inspection Date: 8/17/2010 12:48:49 PM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Floatable debris in catchbasin. Submerged: Fully Depth (in): 34 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other o20100817124354.JPG Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100817-29 Benthic Growth: None Orange Other Green Brown Time Collected: 1255 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 8.45 units Deposition: Moderate Depth (in): 8 76 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 15-1093

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 15
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.28.2010 14:48

o20100826144630.JPG

Outfall Notes:

Outfall partially submerged.

County Coordinates: State Plane Coordinates:

Northing: 488,726 Northing: 754,276 Easting: 793,062 Easting: 2,352,858

Location Map



Inspection	Date:	8/26/2010 2:56:31	PM Insp	ector:	JCW Insp	ection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci Submerged	•	: Submerged, inde ially Depth (in		Notes:	Outfall partially upstream at 15		Outfall screened		
Illicit Disch	arge P	otential: Unlikely			Field Follo	ow-up	Office Follow-up		1
Floatables:	None		Petroleur Natural S		Suds Suds Algae	Sewage Solid Was	Other te/Debris		
Odor:	None		Petroleur VOC/Solv		☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		08.20.2010 14.45
Turbidity:	Slight	cloudiness					Other	020100826144	742.JPG
Color:	None							-Sampling Results	
Vegetation:		None	Inhibited	E	Excessive			Sample Location: Sample ID: <nul< td=""><td>Is</td></nul<>	Is
Benthic Gro	wth:	Moderate	✓ Green	✓ E	Brown 🗌 O	range 🗌 C	Other	Time Collected: <nul< td=""><td></td></nul<>	
Stains:		None	☐ Flow Line			ust Stains ther		Total Chlorine (field): Free Chlorine (field):	ppm
'		on Assessment —						Total Copper (field):	ppm
Graffiti: Erosion:		one one						Ammonia (field):	ppm
Deposition.		one Depth (in):						pH (field):	units
Damage:		inor —	omont 🗆 Una	dercut	Cruchad			Temperature:	°F ma//
2.2.39		☐ Displac ☐ Corrosi		ncrete D	✓ Crushed amage			Detergents: Phenol:	mg/L mg/L

Outfall ID: 15-1093

Inspection	Date:	9/2/2009	Inspec	tor: JCW	Inspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descr	iption	: Submerged, sligh	nt flow Not		artially submerged.	Outfall screened		
Submerged	: Part	ially Depth (in): 7	upstrean	n at 15-1093 US1.		(1)	2000
Illicit Disch	arge F	otential: Potentia	I	Fiel	d Follow-up	Office Follow-up		
Floatables:	None		Petroleum S Natural She			Other te/Debris		
Odor:	Faint		Petroleum VOC/Solven	☐ Mus	, = .	Chlorine Sour		09.01.2009 21:03
Turbidity:	Cloud	у				Other	Osh09_DSCN6	359.JPG
Color:	None					Г	Sampling Results ———	
Vegetation:	th.	None	☐ Inhibited☐ ☐ Green	☐ Excessive✓ Brown		Other	Sample Location: Sample ID:	
	WUII.	Slight			_	Julei	Time Collected:	
Stains:	Condit	None ion Assessment —	✓ Flow Line ✓ Corrosion	☐ Oil☐ Paint	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Graffiti: Erosion: Depositio Damage:	N N n: N	one one Depth (in):	_	cut C	rushed		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents:	ppm ppm units °F mg/L
		✓ Corrosi		ete Damage			Phenol:	mg/L

Outfall ID: 15-1093 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.28.2010 14:41

o20100826144114.JPG

Outfall Notes:

Upstream manhole located approx 88 ft SSW of outfall 15-1093. Intermediate area consists of Main Street and right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 488,645 Northing: 754,194 Easting: 793,028 Easting: 2,352,825

Location Map



8/26/2010 2:49:55 PM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, slight flow Notes: Submerged: Partially Depth (in): 2 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100826144124.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100826-30 Benthic Growth: None Orange Other Green Brown Time Collected: 1450 Stains: Slight Flow Line Oil ✓ Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.95 units Deposition: None Depth (in): 79 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 15-1093 US1

Inspection Da	ate: 9/2/2009	Inspector:	JCW Insp	pection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Descrip Submerged:	tion: Submerged, inde Partially Depth (in		Ammonia test	= 0 mg/L			
Ŭ	ge Potential: Potentia		Field Follo	ow-up 🗌 C	Office Follow-up		
Floatables: N	lone	Petroleum Shee Natural Sheen	n	Sewage Solid Wast	Other e/Debris		
Odor: F	aint	☐ Petroleum☐ VOC/Solvent	☐ Musty [Sewage Sulfur	☐ Chlorine ☐ Sour		50.41.2000-21:214
Turbidity: N	lone				✓ Other	Osh09_DSCN6	3366.JPG
Color: N	lone					Sampling Results ———	
Vegetation:	None	Inhibited	Excessive			Sample Location: Poo Sample ID: 0909	I 902-03
Benthic Growt	th: None	Green	Brown 🗌 C	Orange 🗌 O	ther	Time Collected: 132	
Stains:	None		- =	Rust Stains		Total Chlorine (field):	0 ppm
- Physical Co	ondition Assessment — None	Corrosion	Paint UC	Other		Free Chlorine (field): Total Copper (field):	0 <i>ppm</i> 0 <i>ppm</i>
Erosion:	None					Ammonia (field): pH (field):	ppm 7.79 units
Deposition:	None Depth (in):	0				Temperature:	7.79 ums
Damage:	None Displac		Crushed	d		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 15-1095

Major Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

RCP

Dimensions

Diameter (in):

Height/Depth (in): 24

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

o20100826143158.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-1095 US1.

County Coordinates: State Plane Coordinates:

Northing: 488,741 Northing: 754,291 Easting: 793,062 Easting: 2,352,857

Location Map



Inspection	Date:	8/26/2010 2:41:22	PM Inspector:	JCW Inspe	ction Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Desci Submerged		Submerged, slightially Depth (in		Faint white shee screened upstream	,			
Illicit Disch	arge F	otential: Unlikely		Field Follow	<i>i</i> -up (Office Follow-up		
Floatables:	Mode	rate	Petroleum Shee Natural Sheen	en Suds Suds Algae	Sewage Solid Wast	Other te/Debris		
Odor:	None		Petroleum VOC/Solvent	☐ Musty ☐ ☐ Fishy ☐	Sewage Sulfur	Chlorine Sour		08.20 2010 11.82
Turbidity:	Cloud	у				Other	020100826143	3220.JPG
Color:	None					Γ	Sampling Results	
Vegetation:		None	Inhibited	Excessive			Sample Location: Pool Sample ID: 100	l 826-25
Benthic Gro	wth:	Moderate	✓ Green	Brown Ora	ange 🗌 C	Other	Time Collected: 143	8
Stains:	Condit	Moderate ion Assessment —	, = =	Oil Rus	st Stains ner		Total Chlorine (field): Free Chlorine (field):	0 ppm 0 ppm
Graffiti:		one					Total Copper (field): Ammonia (field):	0 <i>ppm</i> 0 <i>ppm</i>
Erosion:		one					pH (field):	8.12 <i>units</i>
Deposition Damage:		one Depth (in): one Displac Corrosi	ement Undercut	Crushed Damage			Temperature: Detergents: Phenol:	80 °F 0 mg/L 0 mg/L

Outfall ID: 15-1095

Inspection	Date:	9/2/2009	Ins	spector:	JCW I	nspection Type:	Initial	Previous Rainfall (hrs):	72+
Flow Desci	•	Submerged, slightally Depth (in		Notes:		ected from surfa ened upstream a	ce sheen in pool. t 15-1095 US1.		
Illicit Disch	narge Po	otential: Potentia	l		Field F	ollow-up 🗌 (Office Follow-up		
Floatables:	Slight		Petrole	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other		
Odor:	None		Petrole	-	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		09-01-2009 20:58
Turbidity:	Cloudy	1					Other	Osh09_DSCN6	354.JPG
Color:	None							Sampling Results ———	
Vegetation:		None Slight	☐ Inhibited	_	Excessive] Orange 🔲 C)ther	Sample Location: Pool Sample ID: 0909 Time Collected: 1300	002-03L
Stains:	ļ	None on Assessment —	☐ Flow Lir		Dil	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	0 <i>ppm</i> 0 <i>ppm</i>
Graffiti: Erosion: Deposition: Damage:	No No on: No	one one Depth (in): one Displac Corrosi	ement U	ndercut oncrete D	☐ Crust amage	ned		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm ppm units F 0 mg/L 0 mg/L

Outfall ID: 15-1095 US1

Major Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

D9-28, 2010 14:28

o20100826142618.JPG

Outfall Notes:

Upstream manhole located approx 92 ft NNW of outfall 15-1095. Intermediate area consists of Main Street and right-of-way.

County Coordinates: State Plane Coordinates:

Northing: 488,813 Northing: 754,362 Easting: 793,006 Easting: 2,352,800

Location Map



Inspection	Date:	8/26/2010 2:31:26	PM Ins	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descr Submerged:		Submerged, slightally Depth (in		Notes:					
Illicit Disch	arge P	otential: Unlikely	l		Field	Follow-up	Office Follow-up		
Floatables:	None		Petroleu Natural	ım Sheer Sheen	n 🗌 Suds 🗌 Algae	Sewage Solid Wast	Other te/Debris		
Odor:	None		Petroleu		☐ Musty	= 0	☐ Chlorine☐ Sour		05 26 2010 14 26
Turbidity:	None						Other	020100826142	626.JPG
Color:	None							-Sampling Results ———	
Vegetation:		None	Inhibited	d 🗌 E	Excessive			Sample Location: Pool	
Benthic Gro	wth:	None	Green	E	Brown [Orange C	Other	Sample ID: 1008 Time Collected: 1430	326-78
Stains:		Moderate	Flow Lir		Oil [Rust Stains		Total Chlorine (field):	0 ppm
- Physical Graffiti:		on Assessment —	Corrosio	on L F	Paint [Other		Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Erosion:		one						Ammonia (field): pH (field):	0 ppm 8.11 units
Depositio	n: No	one Depth (in):						Temperature:	81 °F
Damage:	No	one Displace		ndercut oncrete D		shed		Detergents: Phenol:	0 mg/L 0 mg/L

Outfall ID: 15-1095 US1

Inspection Date: 9/2/2009 Inspector: JCW Inspection Type	: Initial Previous Rainfall (hrs): 72+
Flow Description: Submerged, slight flow Submerged: Partially Depth (in): Illicit Discharge Potential: Potential Field Follow-up	Office Follow-up
Floatables: None Petroleum Sheen Suds Sewage Natural Sheen Algae Solid Was Odor: Petroleum Musty Sewage VOC/Solvent Fishy Sulfur	Other ste/Debris Chlorine Sour Other Other Och09_DSCN6362.JPG
Turbidity: None Color: None Vegetation: None	Sampling Results Sample Location: Pool Sample ID: 090902-08
Stains: None	Time Collected: 1315 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm pH (field): 7.94 units Temperature: 75 °F Detergents: 0 mg/L Phenol: 0 mg/L

Outfall ID: 16-28

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 15
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

05: 15-2010 10: 10

o20100818141424.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 474,621 Northing: 740,082 Easting: 787,925 Easting: 2,347,975

Location Map



Inspection Date:	8/18/2010 2:25:01 PM In	spector: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged: Fully	Submerged, indeterminate Depth (in):		ly submerged and i Outfall screened up		
Illicit Discharge Po Floatables: None Odor: None	Petrole	um Sheen Suds I Sheen Algae	Sewage Solid Wast	Office Follow-up Other e/Debris Chlorine Sour	Photo Not Available Submerged Outfall
Turbidity: None				Other	_Submerged.jpg
Benthic Growth:		☐ Brown	☐ Orange ☐ O ☐ Rust Stains ☐ Other	ther	Sampling Results Sample Location: Sample ID: Time Collected: Total Chlorine (field): ppm Free Chlorine (field): ppm Total Copper (field): ppm Ammonia (field): ppm
Erosion: Noi Deposition: Noi Damage: Noi	ne Depth (in):	Indercut	ushed		pH (field): units Temperature: Detergents: mg/L Phenol: mg/L

Outfall ID: 16-28 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

18.2010 14:20

o20100818142000.JPG

Outfall Notes:

Upstream manhole located approx 34 ft NW of outfall 16-28. Intermediate area consists of open space.

State Plane Coordinates: **County Coordinates:**

474,633 740,093 Northing: Northing: 2,347,943 Easting: 787,893 Easting:



Location Map

8/18/2010 2:28:52 PM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 34 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Petroleum Faint Musty Sewage Chlorine Fishy ✓ Sulfur Sour o20100818142006.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100818-92 Benthic Growth: None Orange Other Green Brown Time Collected: 1425 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 6.98 units Deposition: None Depth (in): 80 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-47

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.18.2018.09.22

o20100819092252.JPG

Outfall Notes:

Located in golf course pond. Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 480,276 Northing: 745,658 Easting: 783,659 Easting: 2,343,609

Location Map

8/19/2010 9:32:20 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-47 Submerged: Fully Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Other Suds Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-47 US2

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

no ite dato ob es

o20100819092904.JPG

Outfall Notes:

Upstream catchbasin located approx 410 ft ESE of outfall 16-47. Intermediate area consists of open space in golf course. First upstream manhole not located.

County Coordinates: State Plane Coordinates:

Northing: 480,138 Northing: 745,528 Easting: 784,046 Easting: 2,343,997

Location Map



8/19/2010 9:39:34 AM **JCW** Inspection Date: Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, no flow Notes: Sample collected from pool at bottom of catchbasin. Submerged: Partially Depth (in): 1 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100819092912.JPG Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-23 Benthic Growth: None Orange Other Green Brown Time Collected: 0935 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 8.08 units Deposition: None Depth (in): 80 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-71

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 18
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825075024.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 477,606 Northing: 743,046 Easting: 786,843 Easting: 2,346,840





Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/25/2010 7:58:16 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-71 Submerged: Fully Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-71 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08. 25. 2010 07×52

o20100825075224.JPG

Outfall Notes:

Upstream manhole located approx 85 ft W of outfall 16-71. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 477,609 Northing: 743,048 Easting: 786,755 Easting: 2,346,751

Location Map



Inspection Date: 8/25/2010 8:00:39 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 28 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine Fishy Sulfur Sour o20100825075232.JPG Other Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-60 Benthic Growth: Slight Orange Other ✓ Green **✓** Brown Time Collected: 0800 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.74 units Deposition: None Depth (in): 70 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-119

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in):
Height/Depth (in):
Width (in):

12

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

es 19 2018 07 27

o20100819072722.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 479,606 Northing: 745,027 Easting: 785,786 Easting: 2,345,747

16-142 18-142 US1 16-201 16-201 US1 16-873 US1 16-873 US1 16-873 US1 16-873 US1 16-871 US1

Location Map

8/19/2010 7:33:20 AM Inspection Type: Ongoing Inspection Date: Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 119 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Photo Not Available Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-119 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010.07:28

o20100819072802.JPG

Outfall Notes:

Upstream curb inlet located approx 52 ft WSW of outfall 16-119. Intermediate area consists of open space between parking lot and shoreline.

County Coordinates: State Plane Coordinates:

Northing: 479,582 Northing: 745,002 Easting: 785,739 Easting: 2,345,700

Location Map



Inspection Date: 8/19/2010 7:36:22 AM Inspector: JCW Inspection Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged, indeterminate Submerged: Partially Depth (in): 6 Notes: Oil sheen likely from parking lot runoff.	To The second
Illicit Discharge Potential: Potential	
Floatables: Slight	
Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour	08.19.2010 07:28
Turbidity: None Other	o20100819072808.JPG
Color: Faint in bottle Brown	Sampling Results
Vegetation: None ☐ Inhibited ☐ Excessive Benthic Growth: Slight ✔ Green ☐ Brown ☐ Orange ☐ Other	Sample Location: Pool Sample ID: 100819-25
Stains: None Flow Line Oil Rust Stains Corrosion Paint Other	Time Collected: 0735 Total Chlorine (field): 0 ppm
Physical Condition Assessment	Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm
Graffiti: None	Ammonia (field): 0 ppm
Erosion: None Deposition: None Depth (in):	pH (field): 7.5 units
Deposition: None Depth (iii): Damage: None	Temperature:74 \mathcal{F} Detergents:0 mg/L Phenol: mg/L

Outfall ID: 16-142

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 12 Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100819081820.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 480,225 Northing: 745,640 Easting: 785,463 Easting: 2,345,413

Location Map



Inspection Date	e: 8/19/2010 8:26:01	AM In:	spector:	JCW I	nspection Type:	Ongoing	Previous F	Rainfall (hrs):	72+
Flow Description Submerged: Fi	on: Submerged, inde		Notes:		submerged and utfall screened up				
Illicit Discharge		_		_		Office Follow-up	Pho	to Not Av	ailable
Floatables: Nor	ne	Petrole	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris	S	ubmerged O	utfall
Odor: Nor	ne	Petrole	•	☐ Musty ☐ Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour			
Turbidity: Nor	пе					Other		_Submerged.	jpg
Color: Nor	ne						-Sampling R	esults ———	
Vegetation:	None	Inhibite	d 🗌 E	xcessive			Sample Lo		
Benthic Growth:	None	Green		Brown	Orange O	ther	Sample ID: Time Collection		
Stains:	None	☐ Flow Lin		Oil [Rust Stains Other		Total Chlor Free Chlori	,	ррт ррт
— Physical Cond Graffiti:	dition Assessment — None						Total Copp	er (field):	ррт
Erosion:	None						Ammonia (pH (field):	field):	ppm units
Deposition:	None Depth (in):						Temperatu	re:	F
Damage:	None Displace Corrosic		ndercut oncrete D	Crush amage	ned		Detergents Phenol:	:	mg/L mg/L

Outfall ID: 16-142 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010 08:21

o20100819082126.JPG

Outfall Notes:

Upstream curb inlet located approx 36 ft WSW of outfall 16-142. Intermediate area consists of open space between parking lot and shoreline.

State Plane Coordinates: **County Coordinates:**

480,207 745,621 Northing: Northing: 2,345,383 Easting: 785,433 Easting:



Location Map

JCW Inspection Date: 8/19/2010 8:30:49 AM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Floatable debris in catchbasin. Submerged: Fully Depth (in): 22 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other o20100819082134.JPG Turbidity: Slight cloudiness Color: Faint in bottle Green Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-29 Benthic Growth: Slight Orange Other Green Brown Time Collected: 0830 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.84 units Deposition: None Depth (in): 73 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-155

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in):
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.25.20% p. 45

o20100825083542.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 476,703 Northing: 742,152 Easting: 787,312 Easting: 2,347,325

Location Map



Inspection Da	ate: 8/25/2010 8:42:34	AM Ins	spector:	JCW I	nspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descripe Submerged:	tion: Submerged, inde Fully Depth (in		Notes:		submerged and i tfall screened up			
Illicit Dischar		l — -		_		Office Follow-up	Photo Not A	vailable
Floatables: N	lone	Petroleu Natural	ım Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris	Submerged (Outfall
Odor: N	lone	Petroleu VOC/Sc		☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		
Turbidity: N	lone					Other	_Submerge	d.jpg
Color: N	lone						-Sampling Results	
Vegetation:	None	Inhibited	d 🗌 E	excessive			Sample Location:	
Benthic Growt	th: None	Green	B	Brown	Orange O	ther	Sample ID: Time Collected:	
Stains:	None	Flow Lir		Dil	Rust Stains Other		Total Chlorine (field): Free Chlorine (field):	ppm ppm
Graffiti:	ondition Assessment — None						Total Copper (field):	ррт
Erosion:	None						Ammonia (field): pH (field):	ppm units
Deposition:	1 ()						Temperature:	F
Damage:	None Displac		ndercut oncrete D	Crush amage	ned		Detergents: Phenol:	mg/L mg/L

Outfall ID: 16-155 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

North Sawyer St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20100825084022.JPG

Outfall Notes:

Upstream manhole located approx 418 ft W of outfall 16-155. Intermediate area consists of street right-of-way and open space.

County Coordinates: State Plane Coordinates:

Northing: 476,706 Northing: 742,147 Easting: 786,894 Easting: 2,346,907

Location Map



Inspection Date: 8/25/2010 8:47:43 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 11 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Petroleum Odor: None Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100825084038.JPG Othe Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-66 Benthic Growth: Moderate Orange Other Green **✓** Brown Time Collected 0850 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.85 units Deposition: None Depth (in): 72 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Phenol: Corrosion Concrete Damage 0 mg/L

Outfall ID: 16-164

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 15 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825080326.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

477,309 742,753 Northing: Northing: Easting: 787,006 Easting: 2,347,008



Location Map

Inspection Type: Ongoing Inspection Date: 8/25/2010 8:11:03 AM Inspector: **JCW** Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 164 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-164 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

O8. 25. 2010 - 08: 08

o20100825080522.JPG

Outfall Notes:

Upstream manhole located approx 245 ft W of outfall 16-164. Intermediate area consists of wooded area to shoreline.

County Coordinates: State Plane Coordinates:

Northing: 477,310 Northing: 742,749 Easting: 786,763 Easting: 2,346,765

Location Map



Inspection I	Date: 8/25/2	2010 8:13:41 AM In	spector:	JCW I	nspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descri	iption: Subm	nerged, indeterminate	Notes:					
Submerged:	: Fully	Depth (in): 26						
Illicit Discha	arge Potential	l: Unlikely		Field F	ollow-up	Office Follow-up		
Floatables:	Slight		um Sheen Sheen	Suds Algae	Sewage✓ Solid Wast	Other e/Debris		a de
Odor:	Faint	Petrole VOC/S		✓ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour		08 25 2010 98 05
Turbidity:	None					Other	02010082508	0536.JPG
Color:	Faint in bottle	Brown				Г	-Sampling Results	
Vegetation:	None Slight	☐ Inhibite	_	xcessive	Orange C	Other	•	825-10
Stains:	None Condition Asse	Flow Li Corrosi	_	oil	Rust Stains Other		Time Collected: 081 Total Chlorine (field): Free Chlorine (field): Total Copper (field):	0 ppm 0 ppm
Graffiti: Erosion: Deposition Damage:			Indercut Concrete D	☐ Crush amage	ned		Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	0 ppm 0 ppm 7.7 units 71 °F 0 mg/L 0 mg/L

Outfall ID: 16-201

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

HDPE

Dimensions

Diameter (in): 18
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100819074346.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 479,863 Northing: 745,281 Easting: 785,629 Easting: 2,345,586

Location Map



Inspection Date: 8	8/19/2010 7:49:43 AM In	spector:	JCW Ins	pection Type:	Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged: Fully	Submerged, indeterminate Depth (in):	Notes:		ibmerged and r all screened up		
Illicit Discharge Pote	ential: Potential		Field Foll	low-up 🗌 C	Office Follow-up	Photo Not Available
Floatables: None	Petrole Natural	um Sheen Sheen	Suds Algae	Sewage Solid Wast	Other e/Debris	Submerged Outfall
Odor: None	Petrole VOC/S	•	☐ Musty ☐ Fishy	Sewage Sulfur	Chlorine Sour	
Turbidity: None					Other	_Submerged.jpg
Color: None						-Sampling Results
Vegetation: No	one	d 🗌 E	xcessive			Sample Location:
Benthic Growth: No	one Green	□ B	Brown 🔲 (Orange 🗌 O	ther	Sample ID: Time Collected:
Stains: No	one Flow Li Corrosi			Rust Stains Other		Total Chlorine (field): ppm Free Chlorine (field): ppm
Graffiti: None						Total Copper (field): ppm Ammonia (field): ppm
Erosion: None Deposition: None						pH (field): units Temperature: °F
Damage: None	e Displacement U	ndercut oncrete D	Crushe	d		Detergents: mg/L Phenol: mg/L

Outfall ID: 16-201 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

OS. 19. 2019 07:48

o20100819074604.JPG

Outfall Notes:

Upstream catchbasin located approx 63 ft SW of outfall 16-201. Intermediate area consists of paved parking area and shoreline.

County Coordinates: State Plane Coordinates:

Northing: 479,821 Northing: 745,239 Easting: 785,583 Easting: 2,345,541

Location Map



8/19/2010 7:54:51 AM **JCW** Inspection Date: Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Moderate floatable debris in catchbasin. Submerged: Fully Depth (in): 29 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100819074612.JPG Other Turbidity: Slight cloudiness Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-24 Benthic Growth: Slight Orange Other ✓ Green Brown Time Collected: 0755 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.57 units Deposition: None Depth (in): 74 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-289

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 24 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825081912.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. 24" CMP inside larger CMP at manhole.

County Coordinates: State Plane Coordinates:

476,991 742,438 Northing: Northing: 2,347,202 Easting: 787,194 Easting:

Location Map



Inspection Date: 8/25/2010 8:24:56 AM	I Inspector: J	ICW Inspection	Type: Ongoing	Previous Rainfall (hrs): 72+
Flow Description: Submerged, indeterm Submerged: Fully Depth (in):	lo	, ,	ed and not physically ened upstream at 16-	
Floatables: None	Petroleum Sheen Natural Sheen		☐ Office Follow-up wage ☐ Other id Waste/Debris	Photo Not Available Submerged Outfall
Odor: None	Petroleum VOC/Solvent	☐ Musty ☐ Se ☐ Fishy ☐ Su	wage Chlorine Sour	
Turbidity: None			Other	_Submerged.jpg
Color: None Vegetation: None Benthic Growth: None Stains: None	Green Brown	int Other		Sample Location: Sample ID: Time Collected: Total Chlorine (field): ppm Free Chlorine (field): ppm Total Copper (field): ppm Ammonia (field): ppm pH (field): units Temperature: F Detergents: mg/L Phenol: mg/L

Outfall ID: 16-289 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

North Sawyer St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located



o20100825081926.JPG

Outfall Notes:

Upstream manhole located approx 19 ft ENE of outfall 16-289. Intermediate area consists of open space.

State Plane Coordinates: County Coordinates:

476,998 742,444 Northing: Northing: 2,347,180 Easting: 787,172 Easting:

Location Map



Inspection Date: 8/25/2010 8:30:14 AM Inspector: JCW Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 18 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Other Sewage Natural Sheen Solid Waste/Debris Algae Odor: Faint Petroleum ✓ Musty Sewage Chlorine Fishy Sulfur Sour o20100825081932.JPG Othe Turbidity: Slight cloudiness Color: Faint in bottle Green Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-57 Benthic Growth: Moderate Orange Other Green **✓** Brown Time Collected 0828 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.75 units Deposition: None Depth (in): F Temperature: 73 Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-295

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Elliptical

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 22

Width (in): 36

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825091024.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates:

State Plane Coordinates:

Northing: 476,476 Easting: 787,029 Northing: 741,920 Easting: 2,347,046

Location Map



Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/25/2010 9:19:09 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 295 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Petroleum Sheen Suds Floatables: None Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-295 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.28.2010 09:18

o20100825091610.JPG

Outfall Notes:

Upstream manhole located approx 141ft SW of outfall 16-295. Intermediate area consists of street right-of-way and boat dry dock.

County Coordinates: State Plane Coordinates:

Northing: 476,413 Northing: 741,855 Easting: 786,903 Easting: 2,346,921

Location Map



8/25/2010 9:25:25 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 15 Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Petroleum Sheen Floatables: None Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100825091620.JPG Other Turbidity: Slight cloudiness Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-94 Benthic Growth: Moderate Orange Other ✓ Green **✓** Brown Time Collected: 0926 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.48 *units* Deposition: None Depth (in): 74 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-362

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Basin Name:

Sawyer Creek

Dimensions

Diameter (in): Height/Depth (in): 21

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



o20100819100322.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map. 18" CMP in upstream manhole.

County Coordinates: State Plane Coordinates:

Northing: 479,012 Northing: 744,415 Easting: 784,744 Easting: 2,344,716

GRAHAMAVE OSHKOSH AVE ALLEY 16-362 US 16-362 16-719 MAPLE AVE 16-368 US2 16-368 BUGHANAN AVE 16-38

Location Map

8/19/2010 10:11:40 AM **Inspection Date:** Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 362 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Petroleum Sheen Floatables: None Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-362 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

19 12 23 to 42 25

o20100819100912.JPG

Outfall Notes:

Upstream manhole located approx 28 ft NW of outfall 16-362. Intermediate area consists of open space. 18" CMP discharges to SE.

County Coordinates: State Plane Coordinates:

Northing: 479,024 Northing: 744,426 Easting: 784,719 Easting: 2,344,690

Location Map



8/19/2010 10:15:42 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Submerged: Partially Depth (in): 17 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine 08 19 2010 10 09 VOC/Solvent Fishy Sulfur Sour Other o20100819100930.JPG Turbidity: Slight cloudiness Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100819-53 Benthic Growth: None Orange Other Green Brown Time Collected: 1015 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.83 *units* Deposition: Minor Depth (in): 1 77 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-368

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 27 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100819094846.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4

County Coordinates: State Plane Coordinates:

478,896 744,297 Northing: Northing: 2,344,642 Easting: 784,668 Easting:



Location Map



Inspection Date	te: 8/19/2010 9:56:49	AM Inspect	or: JCW	Inspection Ty	rpe: Ongoing	Previous Rainfall (hrs):	72+
Flow Description Submerged: Fi	on: Submerged, indet			Outfall screene	and not physically ed upstream at 16-		
Floatables: Nor		Petroleum S Natural Shee	heen		Office Follow-up Other Vaste/Debris	Photo Not A Submerged	
Odor: Nor	ne	Petroleum VOC/Solven	☐ Mus t ☐ Fish	, _ 0	e Chlorine Sour		
Turbidity: Nor	ne				Other	_Submerge	ed.jpg
Color: Nor Vegetation: Benthic Growth:	None	☐ Inhibited	Excessive	Orange [☐ Other	- Sampling Results	
Stains: — Physical Condition: Graffiti: Erosion: Deposition: Damage:	None None None None None Depth (in): None Corrosio		Oil Paint Cut Create Damage	Rust Stains Other	5	Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units °F mg/L mg/L

Outfall ID: 16-368 US2

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

08.19.2010 09:54

o20100819095404.JPG

Outfall Notes:

Upstream manhole located approx 193 ft W of outfall 16-368. Intermediate area consists of street right-of-way, residential property and park space.

County Coordinates: State Plane Coordinates:

Northing: 478,896 Northing: 744,293 Easting: 784,475 Easting: 2,344,449

Location Map



Inspection Date: 8/19/2010 10:00:47 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: First upstream manhole shown on MS4 map not located. Submerged: Fully Depth (in): 34 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Petroleum Sheen Floatables: Slight Suds Sewage Other ✓ Solid Waste/Debris Natural Sheen Algae Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent Fishy ✓ Sulfur Sour o20100819095418.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100819-50 Benthic Growth: None Orange Other Green Brown Time Collected: 1000 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.49 units Deposition: None Depth (in): 79 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-386

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): Height/Depth (in): 21

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825073518.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

478,215 743,647 Northing: Northing: Easting: 786,392 Easting: 2,346,378

Location Map



Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Inspection Date: 8/25/2010 7:42:58 AM Inspector: **JCW** Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 386 US2. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Suds Floatables: None Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-386 US2

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.25.2010 07:38

o20100825073858.JPG

Outfall Notes:

Upstream catchbasin located approx 172 ft W of outfall 16-386. Intermediate area consists of open space and wooded area.

County Coordinates: State Plane Coordinates:

Northing: 478,231 Northing: 743,660 Easting: 786,221 Easting: 2,346,206

Location Map



JCW Inspection Type: Ongoing Inspection Date: 8/25/2010 7:46:07 AM Inspector: Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: First upstream manhole on MS4 map not located. Submerged: Fully Depth (in): 28 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight Petroleum Sheen Suds Sewage Other ✓ Natural Sheen Solid Waste/Debris Algae Odor: Petroleum None Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other o20100825073904.JPG Turbidity: None Faint in bottle Color: Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-81 Benthic Growth: Moderate Orange Other ✓ Green Brown Time Collected: 0745 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.74 units Deposition: None Depth (in): 70 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-389

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Basin Name:

North Sawyer St

Dimensions

Diameter (in): Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located



o20100825095256.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates:

State Plane Coordinates:

475,962 741,409 Northing: Northing: 2,347,231 Easting: 787,204 Easting:



Location Map

8/25/2010 10:01:26 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 389 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-389 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

North Sawyer St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

2010 08:0

o20100825093000.JPG

Outfall Notes:

Upstream catchbasin located approx 115 ft NW of outfall 16-389. Intermediate area consists of paved parking area.

County Coordinates: State Plane Coordinates:

Northing: 476,056 Northing: 741,502 Easting: 787,135 Easting: 2,347,160

Location Map



Inspection Date: 8/25/2010 9:37:15 AM Inspector: JCW Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Submerged: Fully Depth (in): 42 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent ✓ Fishy Sulfur Sour o20100825093008.JPG Othe Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-06 Benthic Growth: None Orange Other Green Brown Time Collected 0938 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.71 units Deposition: None Depth (in): F Temperature: 73 Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Phenol: Corrosion Concrete Damage 0 mg/L

Outfall ID: 16-396

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 18 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

25.2010/09:58

o20100825095832.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

475,777 741,225 Northing: Northing: Easting: 787,247 Easting: 2,347,277

Location Map



Inspection Type: Ongoing Inspection Date: 8/25/2010 10:07:21 AM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 396 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up **Photo Not Available** Suds Floatables: None Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-396 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100825100024.JPG

Outfall Notes:

Upstream manhole located approx 35 ft W of outfall 16-396. Intermediate area consists of boat slip.

County Coordinates: State Plane Coordinates:

Northing: 475,778 Northing: 741,226 Easting: 787,216 Easting: 2,347,245

Location Map



Inspection	Date:	8/25/2010 10:10	43 AM Ir	spector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs): 72+
Flow Descr	ription:	Submerged, inc	eterminate	Notes:	Floatable	debris in manhole.		
Submerged	: Fully	Depth (n): 36					
Illicit Disch	arge Po	tential: Potenti	al		Field	Follow-up	Office Follow-up	
Floatables:	Modera	te		eum Sheei I Sheen	n 🗌 Suds 🗌 Algae		Other	
Odor:	Faint		Petrole VOC/S	eum	✓ Musty ☐ Fishy	y Sewage	Chlorine Sour	06 29/029 10:00
Turbidity:	Slight c	loudiness					Other	o20100825100034.JPG
Color:	Faint in	bottle	Green				ſ	Sampling Results
Vegetation:	N	None	Inhibite	ed 🗌 l	Excessive			Sample Location: Pool Sample ID: 100825-95
Benthic Gro	wth: S	Slight	✓ Green	✓ I	Brown [Orange C	Other	Time Collected: 1010
Stains:	١	None	Flow L		Oil [Paint [Rust Stains Other		Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm
-Physical	Conditio	n Assessment –						Total Copper (field): 0 ppm
Graffiti:	Nor	_						Ammonia (field): 0 ppm
Erosion: Depositio	Nor on: Nor	_						pH (field): 7.55 units
Damage:		~ -	cement 🔲 l	Jndercut Concrete D		shed		Temperature: 72 °F Detergents: 0 mg/L Phenol: 0 mg/L

Outfall ID: 16-436

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825100954.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

State Plane Coordinates: **County Coordinates:**

475,610 741,070 Northing: Northing: 2,347,909 Easting: 787,877 Easting:





Inspection Type: Ongoing Inspection Date: 8/25/2010 10:18:11 AM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 436 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Orange Other None Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-436 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Basin Name:

North Sawyer St

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.25.2010 10:12

o20100825101242.JPG

Outfall Notes:

Upstream manhole located approx 78 ft WSW of outfall 16-436. Intermediate area consists of open space.

County Coordinates: State Plane Coordinates:

Northing: 475,584 Northing: 741,042 Easting: 787,804 Easting: 2,347,837

Location Map



Inspection Date: 8/25/2010 10:22:31 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Floatable debris in manhole. Submerged: Fully Depth (in): 37 Illicit Discharge Potential: Potential Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other ✓ Solid Waste/Debris Natural Sheen Algae Petroleum Odor: None Musty Sewage Chlorine Fishy Sulfur Sour Othe o20100825101302.JPG Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-01 Benthic Growth: Slight Orange Other Green **✓** Brown Time Collected 1022 ✓ Rust Stains Stains: Slight ✓ Flow Line Oil Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.31 units Deposition: None Depth (in): 71 °F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-463

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 15
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

18 19 2010 17 38

o20100819075828.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 480,722 Northing: 746,133 Easting: 785,231 Easting: 2,345,172

Location Map



Inspection Date: 8/19/2010 8:04:26 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 463 US1. Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Suds Petroleum Sheen Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-463 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08 16 9894 08 08

o20100819080604.JPG

Outfall Notes:

Upstream manhole located approx 28 ft WSW of outfall 16-463. Intermediate area consists of open space along shoreline.

County Coordinates: State Plane Coordinates:

Northing: 480,711 Northing: 746,121 Easting: 785,208 Easting: 2,345,149

Location Map



Inspector: **JCW** Inspection Date: 8/19/2010 8:09:08 AM Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Water level at manhole rim. Floatable debris Flow Description: Submerged, indeterminate Notes: in manhole. Submerged: Fully Depth (in): 36 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Other o20100819080644.JPG Turbidity: Slight cloudiness Color: None Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-67 Benthic Growth: None Orange Other Green Brown Time Collected: 0810 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.56 units Deposition: None Depth (in): 73 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-533

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

RCP

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100826094912.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4

County Coordinates: State Plane Coordinates:

478,815 744,229 Northing: Northing: 2,345,351 Easting: 785,375 Easting:

Location Map



Inspection	Date: 8/26/20	10 10:11:27 AM	nspector:	JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs):	72+
Flow Descri Submerged:		erged, indeterminate Depth (in):	Notes:		submerged and utfall screened u			
Floatables:		☐ Natura	eum Sheen al Sheen	Suds Algae	Sewage Solid Was		Photo Not Av Submerged O	
Odor: Turbidity:	None	Petrol	eum Solvent	Musty Fishy	Sewage Sulfur	☐ Chlorine ☐ Sour ☐ Other	_Submerged	l.jpg
Color: Vegetation: Benthic Grov		☐ Inhibit☐ Green☐	B	Excessive	y ·	Other	Sampling Results Sample Location: Sample ID: Time Collected:	
Stains: —Physical (Graffiti: Erosion: Deposition Damage:	None Condition Assess None None n: None None	Depth (in):		Dil Caint Control Crus amage	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units °F mg/L mg/L

Outfall ID: 16-533 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08 28.2010 09:52

o20100826095220.JPG

Outfall Notes:

Upstream manhole located approx 75 ft NE of outfall 16-533. Intermediate area consists of street right-of-way and commercial property.

County Coordinates: State Plane Coordinates:

Northing: 478,755 Northing: 744,168 Easting: 785,326 Easting: 2,345,303

Location Map



Inspection Date: 8/26/2010 10:01:38 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: Floatable debris in manhole. Submerged: Fully Depth (in): 36 Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100826095640.JPG Other Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100826-91 Benthic Growth: Slight **✓** Brown Orange Other Green Time Collected: 1002 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.23 units Deposition: None Depth (in): 76 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-551

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): Height/Depth (in): 12

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825072000.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 478,528 Northing: 743,957 Easting: 786,181 Easting: 2,346,161

Location Map



Inspection Date: 8/25/2010 7:28:04 AM	Inspector: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs): 72+	
Flow Description: Submerged, indeterminate Submerged: Fully Depth (in):		ly submerged and Outfall screened up	, , ,		
Odor: None Petro	Field Field Suds ral Sheen	Sewage Solid Wast Sewage	Office Follow-up Other e/Debris Chlorine Sour	Photo Not Availa Submerged Outfall	
Turbidity: None	700ivent i isiiy	y Sunui	Other	_Submerged.jpg	
Color: None			Г	-Sampling Results	
Vegetation: None Inhib Benthic Growth: None Gree	_	Orange C	other	Sample Location: Sample ID: Time Collected:	
Stains: None Flow Physical Condition Assessment	Line Oil osion Paint	Rust Stains Other		Total Chlorine (field): pp	om om
Graffiti: None Erosion: None Deposition: None Depth (in): Damage: None Displacement	Undercut □ Cru	ushed		Ammonia (field): pp pH (field): un Temperature: %	om om nits = eg/L
Corrosion	Concrete Damage	Jones		•	g/L g/L

Outfall ID: 16-551 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100825072012.JPG

Outfall Notes:

Upstream manhole located approx 54 ft W of outfall 16-551. Intermediate area consists of open space in park.

County Coordinates: State Plane Coordinates:

Northing: 478,535 Northing: 743,962 Easting: 786,119 Easting: 2,346,099

Location Map



Inspection Date: 8/25/2010 7:31:00 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Floatable debris and small spots of oil sheen in manhole. Submerged: Fully Depth (in): 27 Illicit Discharge Potential: **Potential** Field Follow-up Office Follow-up Floatables: Moderate ✓ Petroleum Sheen Suds Other Sewage Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other o20100825072020.JPG Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-08 Benthic Growth: Orange Other None Green Brown Time Collected: 0732 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.6 units Deposition: None Depth (in): 69 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-587

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in):

Height/Depth (in): 16

Width (in): 25

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825094258.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map. Identified on MS4 map, but may be private outfall.

County Coordinates: State Plane Coordinates:

Northing: 476,112 Northing: 741,566 Easting: 787,572 Easting: 2,347,595

Location Map



Inspection Date: 8/25/2010 9:49:38 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Outfall fully submerged and not physically Flow Description: Submerged, indeterminate Notes: located. Upstream manhole not accessible. Submerged: Fully Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up ✓ Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-587 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825094812.JPG

Outfall Notes:

Upstream manhole not located. Found probable location with metal detector and marked for City to expose.

County Coordinates: State Plane Coordinates:

Northing: 476,103 Northing: 741,557 Easting: 787,543 Easting: 2,347,567

Location Map



8/25/2010 9:54:50 AM **JCW** Inspection Date: Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: None Notes: Only upstream manhole appears to be buried. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Office Follow-up ✓ Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100825094818.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-594

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 24
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

95 19 2010 07 17

o20100819071708.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 479,419 Northing: 744,842 Easting: 785,894 Easting: 2,345,858

16-142 16-201 US1 16-201 US1 16-694 US1 16-894 US1 16-871 US1 16-873 US1 16-873

Location Map

Inspection Type: Ongoing Inspection Date: 8/19/2010 7:23:24 AM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 594 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up **Photo Not Available** Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-594 US1

Minor Outfall - Alternate Location

Structure Type:

Manhole

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100819071728.JPG

Outfall Notes:

Upstream manhole located approx 60 ft WSW of outfall 16-594. Intermediate area consists of open space in park.

State Plane Coordinates: **County Coordinates:**

479,381 744,803 Northing: Northing: Easting: 785,842 Easting: 2,345,807

Location Map



8/19/2010 7:26:35 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: 2 small oil drops, likely from Oshkosh Ave runoff. Submerged: Fully Depth (in): 51 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: Slight ✓ Petroleum Sheen Suds Sewage Other Natural Sheen ✓ Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100819071738.JPG Other Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100819-04 Benthic Growth: None Orange Other Green Brown Time Collected: 0725 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.44 units Deposition: None Depth (in): 75 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-719

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

PVC

Basin Name:

Sawyer Creek

Dimensions

Diameter (in): Height/Depth (in): 15

Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

o20100825070344.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 478,927 Northing: 744,334 Easting: 785,028 Easting: 2,345,001



Inspection Date: 8/25/2010 7:12:04 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 719 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage Submerged Outfall Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour Othe _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Outfall ID: 16-719 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100825070540.JPG

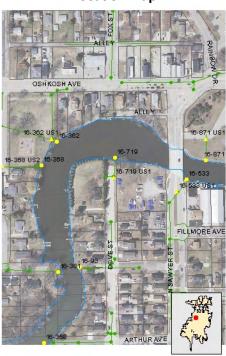
Outfall Notes:

Upstream curb inlet located approx 95 ft S of outfall 16-719. Intermediate area consists of street right-of-way and open space.

County Coordinates: State Plane Coordinates:

Northing: 478,831 Northing: 744,238 Easting: 785,019 Easting: 2,344,994

Location Map



8/25/2010 7:15:59 AM Inspection Date: Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: Submerged, indeterminate Notes: "Smoky" odor in bottle. Submerged: Fully Depth (in): 17 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: Faint Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour ✓ Other o20100825070548.JPG Turbidity: None Color: Faint in bottle Brown Sampling Results Sample Location: Pool Vegetation: None Inhibited Excessive Sample ID: 100825-87 Benthic Growth: None Orange Other Green Brown Time Collected: 0715 Stains: None Flow Line Oil Rust Stains Total Chlorine (field): 0 ppm Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 7.64 units Deposition: None Depth (in): 6 °F Temperature: Damage: None Displacement Undercut Crushed Detergents: 0 mg/LCorrosion Concrete Damage Phenol: 0 mg/L

Outfall ID: 16-871

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

08.76*2010.10.28

o20100819102648.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. 12" CMP leaving upstream curb inlet.

County Coordinates: State Plane Coordinates:

Northing: 478,906 Northing: 744,322 Easting: 785,470 Easting: 2,345,443

Location Map



Inspection	Date: 8/19/2010 10:35:1	7 AM Inspector	r: JCW	Inspection Type:	Ongoing	Previous Rainfall (hrs): 73	2+
Flow Desci Submerged	ription: Submerged, inde : Fully Depth (in		located. C	y submerged and Outfall screened up Algae along shore	ostream at 16-		
Illicit Disch	arge Potential: Unlikely Moderate	Petroleum She	een 🗌 Suds	Sewage	Office Follow-up Other te/Debris	Photo Not Ava	
Odor:	None	Petroleum VOC/Solvent	☐ Musty ☐ Fishy	=	Chlorine Sour		
Turbidity:	None				Other	_Submerged.jp	ng
Color: Vegetation: Benthic Gro	None None Wth: None	Inhibited	Excessive Brown	Orange C)ther	Sampling Results Sample Location: Sample ID: Time Collected:	
Stains: - Physical Graffiti: Erosion: Depositio Damage:	None —	ement Undercu	Oil [] Paint [] t	Rust Stains Other		Total Chlorine (field): Free Chlorine (field): Total Copper (field): Ammonia (field): pH (field): Temperature: Detergents: Phenol:	ppm ppm ppm ppm units *F mg/L mg/L

Outfall ID: 16-871 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010 10:29

o20100819102924.JPG

Outfall Notes:

Upstream curb inlet located approx 100 ft N of outfall 16-871. Intermediate area consists of open space in park.

County Coordinates: State Plane Coordinates:

Northing: 479,011 Northing: 744,427 Easting: 785.471 Easting: 2,345,442

Location Map



JCW Inspection Date: 8/19/2010 10:38:53 AM Inspector: Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: None Notes: Catchbasin dry. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine 08.19.2010 10:29 Fishy Sulfur Sour Other o20100819102940.JPG Turbidity: None Color: None Sampling Results Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Checked by: BDW 1/4/2011

Outfall ID: 16-873

Minor Outfall

Structure Type:

Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 12
Height/Depth (in):
Width (in):

Mapping Precison:

Desktop mapping estimate

✓ Not Physically Located

March 1966.

o20100819103946.JPG

Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. 12" CMP leaving upstream catchbasin.

County Coordinates: State Plane Coordinates:

Northing: 478,990 Northing: 744,415 Easting: 785,998 Easting: 2,345,970

16-594 US1 16-594 16-694 US1 16-873 US1 16-873 16-871 16-873 US1 16-873

Location Map

Inspection Type: Ongoing Inspection Date: 8/19/2010 10:47:42 AM Inspector: **JCW** Previous Rainfall (hrs): Flow Description: Submerged, indeterminate Notes: Outfall fully submerged and not physically located. Outfall screened upstream at 16-Submerged: Fully Depth (in): 873 US1. Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Photo Not Available Floatables: None Petroleum Sheen Suds Other Sewage **Submerged Outfall** Natural Sheen Algae Solid Waste/Debris Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour Other _Submerged.jpg Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: None Green Brown Orange Other Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Checked by: BDW 1/4/2011

Outfall ID: 16-873 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

08.19.2010 10, 42

o20100819104256.JPG

Outfall Notes:

Upstream catchbasin located approx 135 ft WNW of outfall 16-873. Intermediate area consists of open space in park.

County Coordinates: State Plane Coordinates:

Northing: 479,009 Northing: 744,431 Easting: 785,862 Easting: 2,345,834

Location Map



Inspection Date: 8/19/2010 10:51:20 AM Inspector: **JCW** Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Flow Description: None Notes: 11" of water in sump, but below invert of outfall pipe. Rust stains from 4" pipe from Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Field Follow-up Office Follow-up Floatables: None Petroleum Sheen Suds Other Sewage Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100819104308.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Slight Orange Other ✓ Green Brown Time Collected: Stains: Slight Flow Line Oil ✓ Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: Minor Displacement Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Checked by: BDW 1/4/2011

Outfall ID: 16-1074

Minor Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 8
Height/Depth (in):
Width (in):

Mapping Precison:

Mapping GPS

■ Not Physically Located

Q3_18_3010_P6_35

o20100819085940.JPG

Outfall Notes:

Outfall fully submerged. Pipe info from MS4 map.

County Coordinates: State Plane Coordinates:

Northing: 481,271 Northing: 746,668 Easting: 784,501 Easting: 2,344,432



Inspector: **JCW** Inspection Date: 8/19/2010 9:04:14 AM Inspection Type: Ongoing Previous Rainfall (hrs): 72+ Lake level at crown of pipe. Outfall screened Flow Description: Submerged, indeterminate Notes: upstream at 16-1074 US1. Submerged: Fully Depth (in): 8 Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine VOC/Solvent Fishy Sulfur Sour o20100819090004.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Vegetation: Inhibited None Excessive Sample ID: Benthic Growth: None Orange Other Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Checked by:

Outfall ID: 16-1074 US1

Minor Outfall - Alternate Location

Structure Type:

Inlet/Catchbasin

Discharge Location:

Downstream Outfall

Shape:

Manhole/Catchbasin

Material:

Manhole - concrete

Dimensions

Diameter (in):

Height/Depth (in):

Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100819090430.JPG

Outfall Notes:

Upstream catchbasin located approx 277 ft S of outfall 16-1074. Intermediate area consists of street right-of-way adjacent to golf course.

County Coordinates: State Plane Coordinates:

Northing: 480,994 Northing: 746,392 Easting: 784,505 Easting: 2,344,442

Location Map

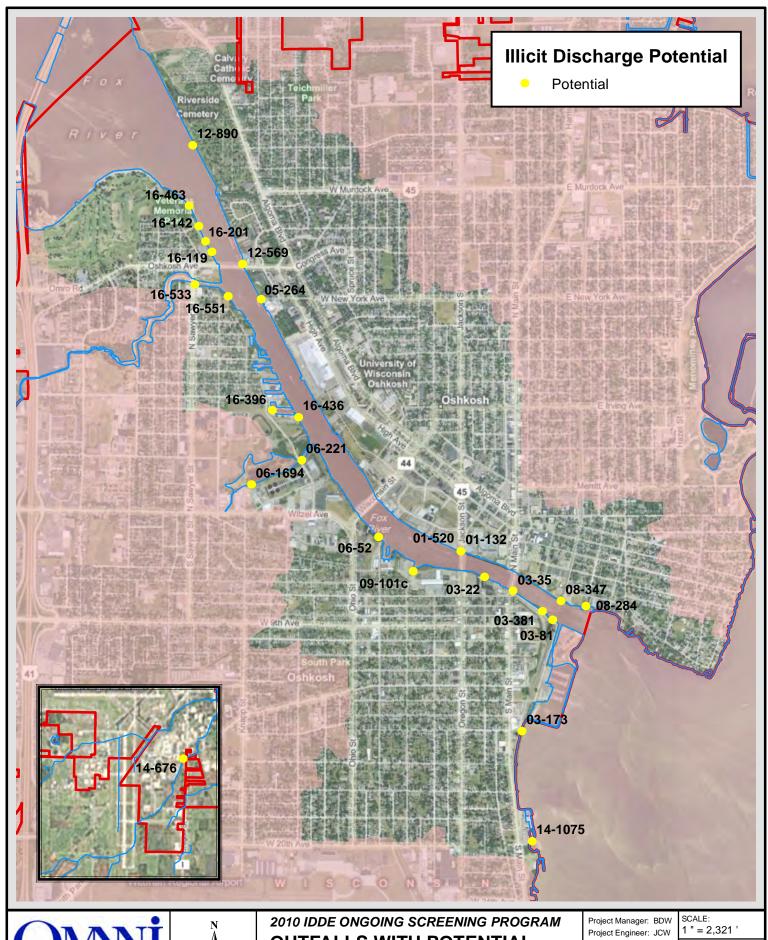


8/19/2010 9:10:25 AM **JCW** Inspection Type: Ongoing Inspection Date: Inspector: Previous Rainfall (hrs): 72+ Flow Description: None Notes: Catchbasin dry. Submerged: None Depth (in): Illicit Discharge Potential: Unlikely Office Follow-up Field Follow-up Floatables: None Petroleum Sheen Suds Sewage Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100819090438.JPG Other Turbidity: None Sampling Results Color: None Sample Location: Vegetation: None Inhibited Excessive Sample ID: Benthic Growth: Slight Orange Other ✓ Green Brown Time Collected: Stains: None Flow Line Oil Rust Stains Total Chlorine (field): ppm Corrosion Paint Other Free Chlorine (field): ppm Physical Condition Assessment Total Copper (field): ppm Graffiti: None Ammonia (field): ppm Erosion: None pH (field): units Deposition: None Depth (in): F Temperature: Damage: None ☐ Displacement ☐ Undercut Crushed Detergents: mg/L Corrosion Concrete Damage Phenol: mg/L

Checked by:

Appendix D

Locations of Outfalls with Potential Illicit Discharges







OUTFALLS WITH POTENTIAL ICIT DISCHARGES

CITY OF OSHKOSH WINNEBAGO COUNTY, WISCONSIN

Drawn By: JCW Checked By: BDW

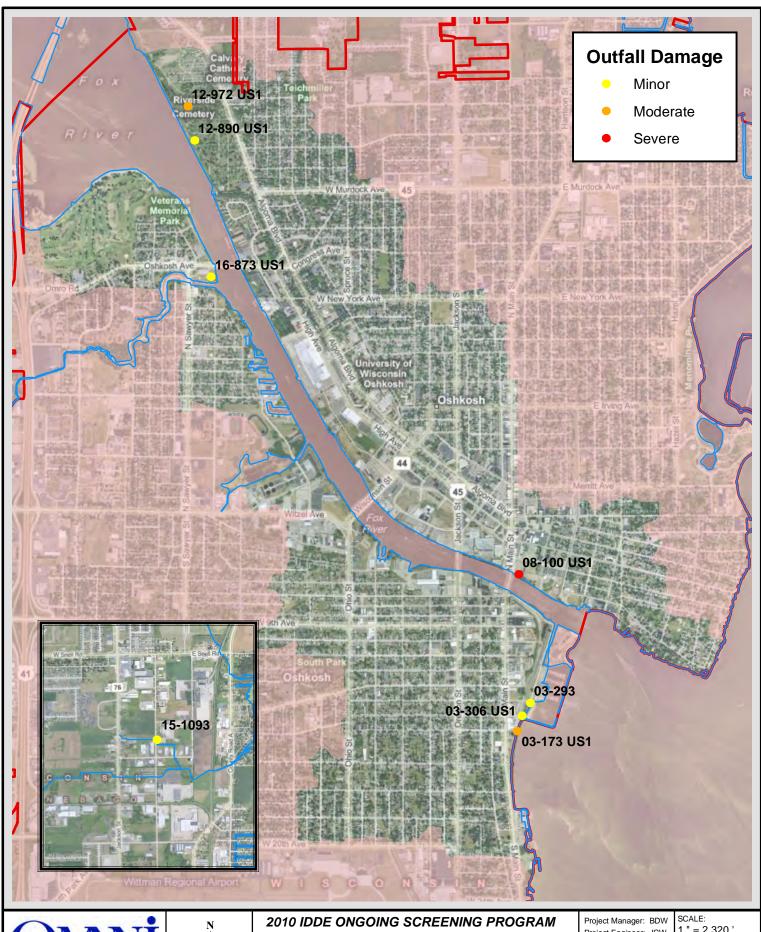
PROJECT NO. N2029B10

3/28/2011

FIGURE NO. APP D

Appendix E

Locations of Outfalls with Damage







2010 IDDE ONGOING SCREENING PROGRAM

DAMAGED OUTFALLS

CITY OF OSHKOSH WINNEBAGO COUNTY, WISCONSIN Project Manager: BDW Project Engineer: JCW 1
Drawn By: JCW PChecked By: BDW

SCALE: 1 " = 2,320 ' PROJECT NO. N2029B10

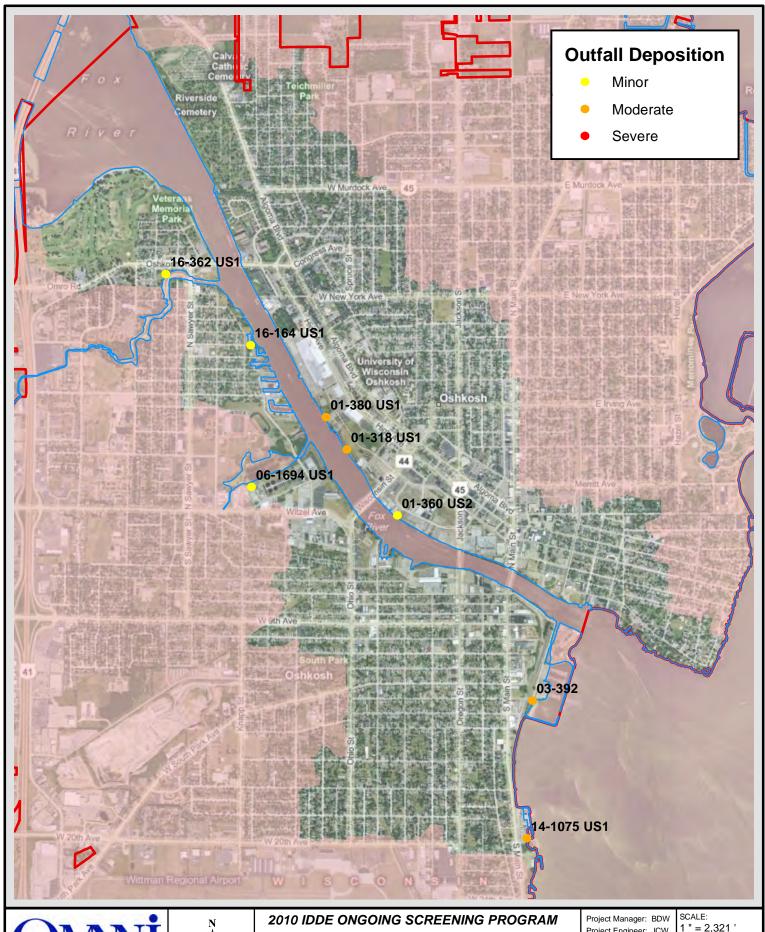
Date: 1/4/2011

FIGURE NO.

APP E

Appendix F

Locations of Outfalls with Deposition







OUTFALLS WITH DEPOSITION

CITY OF OSHKOSH WINNEBAGO COUNTY, WISCONSIN

Project Engineer: JCW Drawn By: JCW Checked By: BDW

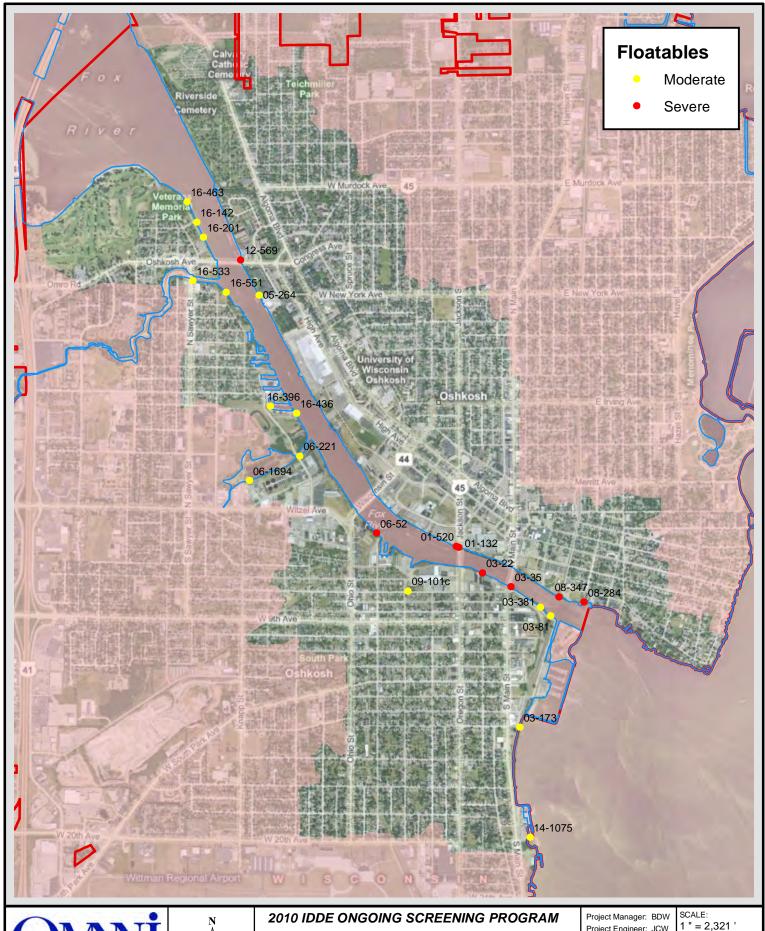
1 " = 2,321 ' PROJECT NO. N2029B10

1/6/2011

FIGURE NO. APP F

Appendix G

Locations of Upstream Manholes with Floatable Debris







UPSTREAM MANHOLES WITH FLOATABLE DEBRIS

CITY OF OSHKOSH WINNEBAGO COUNTY, WISCONSIN Project Manager: BDW Project Engineer: JCW Trawn By: JCW Fohecked By: BDW

PROJECT NO. **N2029B10**

Date: 3/28/2011 FI

FIGURE NO. **APP G**

Appendix H

Outfall 14-676 (Waukau Ave Culvert) Investigation

Outfall ID: 14-676

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 30
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 725,466.97 Easting: 2,351,935.17



DSCN6537.JPG

Outfall Notes: 30 inch CMP discharges into west culvert

Location Map



Inspection Date: 9/4/2009	Inspector: JCW	Flow Desc	ription: Moderat	to	Prov	rious Rainfall (hrs	s): 72±
•	•	1 low best	•		Market	nous Haimaii (His	3). 72+
Illicit Discharge Potential: Po			Submerged	I in Water: No inches: 0	1 / July		
Notes: Sample 09090411 collected.	ted from pool (suds).	No detergent					
detected.			Submerged in				
Physical Indicators (Outfall and Surrounding Area) inches: 0							
Outfall Damage	orrosion 🗌 Peeli	ng Paint 🗌 Sp	oalling/Cracking/C	Chipping	(Just)	1	
Deposits/Stains	ily 🗌 Paint	✓ Flow Line	Other:		1 to		3
Pipe Benthic Growth	rown 🗌 Orange	Green	Other:		A	TO THE	09.04.2009 13:39
Abnormal Vegetation Ir	hibited	ve				DSCN6538.	JPG
Poor Pool Quality	dors Colors	Oil Sheen	Suds 🗌 F	Floatables			
E	xcessive Algae	Other:					
Physical Indicators (In Flow, if ou	tfall is flowing)						
Odor: None	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables: None	☐ Sewage	Suds	Petroleum	Other:			
Color: None	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity: None				Gray	Other:		
Sampling Results							
Sample Location: Flow	Tota	al Chlorine (field)	: 0 ppm	Phenol:		0 mg/L	
'		Chlorine (field):		Detergents:		0 mg/L	
Sample ID: 090904-10		al Copper (field):		Botorgonto.		5 mg/L	
Time Collected: 1340		field):	8.32 units	Temperature	e :	78 °F	

Checked by: BDW 11/12/2009

Outfall ID: 14-676

Major Outfall

Structure Type: Closed Pipe Outfall

Discharge Location:

Water of the State

Shape:

Pipe - Circular

Material:

CMP

Dimensions

Diameter (in): 30 Height/Depth (in): Width (in):

Mapping Precison:

Mapping GPS

☐ Not Physically Located

o20100826123640.JPG

Outfall Notes:

30 inch CMP discharges into west culvert.

County Coordinates: State Plane Coordinates:

Northing: 459,937 Northing: 725,467 Easting: 791,621 Easting: 2,351,935



JCW Inspection Type: Other Inspection Date: 8/26/2010 1:00:18 PM Inspector: Previous Rainfall (hrs): 72+ Flow Description: Moderate Notes: Sample consists of sheen skimmed from surface of downstream pool. Submerged: None Depth (in): Illicit Discharge Potential: **Potential** Office Follow-up Field Follow-up Floatables: Moderate Petroleum Sheen Suds Sewage ✓ Other Natural Sheen Solid Waste/Debris Algae Odor: None Petroleum Musty Sewage Chlorine Fishy Sulfur Sour o20100826123758.JPG Other Turbidity: None Color: None Sampling Results Sample Location: Pool Vegetation: Inhibited None Excessive Sample ID: 100826-85 Benthic Growth: None Orange Other Green Brown Time Collected: 1240 Rust Stains Stains: Moderate Flow Line Oil Total Chlorine (field): 0 ppm **✓** Corrosion Paint Other Free Chlorine (field): 0 ppm Physical Condition Assessment Total Copper (field): 0 ppm Graffiti: None Ammonia (field): 0 ppm Erosion: None pH (field): 8.52 units Deposition: None Depth (in): 76 °F Temperature: None Damage: ☐ Displacement ☐ Undercut Crushed Detergents: 0 mg/L Phenol: Corrosion Concrete Damage 0 mg/L

Outfall ID: 14-676

Inspection Date: 8/26/2010 12:58:	18 PM Inspector: JCW Inspection Type: Ongoing	Previous Rainfall (hrs): 72+			
Flow Description: Moderate	Notes: Persistent suds and gel-like sheen downstream				
Submerged: None Depth (i	n):				
Illicit Discharge Potential: Potentia	al ☐ Field Follow-up ☐ Office Follow-up				
Floatables: Moderate	Petroleum Sheen 🗹 Suds 🗌 Sewage 🗸 Other				
	☐ Natural Sheen ☐ Algae ☐ Solid Waste/Debris	THE STATE OF THE S			
Odor: None	☐ Petroleum ☐ Musty ☐ Sewage ☐ Chlorine ☐ VOC/Solvent ☐ Fishy ☐ Sulfur ☐ Sour				
Turbidity: None	UOC/Solvent ☐ Fishy ☐ Sulfur ☐ Sour ☐ Other	o20100826123658.JPG			
,		C. Was Davids			
Color: None		Sampling Results			
Vegetation: None	☐ Inhibited ☐ Excessive	Sample Location: Flow Sample ID: 100826-52			
Benthic Growth: None	Green Brown Orange Other	Time Collected: 1240			
Stains: Moderate	☐ Flow Line ☐ Oil ☐ Rust Stains	Total Chlorine (field): 0 ppm			
☐ Physical Condition Assessment —	✓ Corrosion ☐ Paint ☐ Other	Free Chlorine (field): 0 ppm			
Graffiti: None		Total Copper (field): 0 ppm			
Erosion: None		Ammonia (field): 0 ppm pH (field): 8.3 units			
Deposition: None Depth (in)):	Temperature: 78 °F			
Name -	cement Undercut Crushed	Detergents: 0 mg/L			
Damage: None Displa	Displacement Ondercut Ordshed				
Damage: None Displa	sion Concrete Damage	Phenol: 0 mg/L			
	sion Concrete Damage	Phenol: 0 mg/L			
Corros Inspection Date: 9/4/2009	Inspector: JCW Inspection Type: Initial	Phenol: 0 mg/L Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds) No detergent detected				
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected.	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up Office Follow-up	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. □ Field Follow-up □ Office Follow-up □ Petroleum Sheen ✓ Suds □ Sewage □ Other	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential Floatables: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. □ Field Follow-up □ Office Follow-up □ Petroleum Sheen ☑ Suds □ Sewage □ Other □ Natural Sheen □ Algae □ Solid Waste/Debris	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. □ Field Follow-up □ Office Follow-up □ Petroleum Sheen ✓ Suds □ Sewage □ Other	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential Floatables: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. In): 0 In): 0 In): 0 Petroleum Sheen ✓ Suds ☐ Sewage ☐ Other ☐ Natural Sheen ☐ Algae ☐ Solid Waste/Debris ☐ Petroleum ☐ Musty ☐ Sewage ☐ Chlorine	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential Floatables: Moderate Odor: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up ☐ Office Follow-up ☐ Petroleum Sheen ☑ Suds ☐ Sewage ☐ Other ☐ Natural Sheen ☐ Algae ☐ Solid Waste/Debris ☐ Petroleum ☐ Musty ☐ Sewage ☐ Chlorine ☐ VOC/Solvent ☐ Fishy ☐ Sulfur ☐ Sour	Previous Rainfall (hrs): 72+			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential Floatables: Moderate Odor: None Turbidity: None Color: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate — Physical Condition Assessment — Graffiti: None Erosion: None Deposition: None Depth (in)	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm			
Inspection Date: 9/4/2009 Flow Description: Moderate Submerged: None Depth (i Illicit Discharge Potential: Potential: Floatables: Moderate Odor: None Turbidity: None Color: None Vegetation: None Benthic Growth: None Stains: Moderate Physical Condition Assessment Graffiti: None Erosion: None Deposition: None Depth (in)	Inspector: JCW Inspection Type: Initial Notes: Sample 09090411 collected from pool (suds). No detergent detected. Field Follow-up	Previous Rainfall (hrs): 72+ Osh09_DSCN6538.JPG Sampling Results Sample Location: Flow Sample ID: 090904-10 Time Collected: 1340 Total Chlorine (field): 0 ppm Free Chlorine (field): 0 ppm Total Copper (field): 0 ppm Ammonia (field): ppm pH (field): 8.32 units			

Checked by:

Jason Weis

From: Brian Wayner

Sent: Thursday, August 26, 2010 6:14 PM

To: Jason Weis Subject: FW: Suds

FYI

Brian Wayner OMNNI Associates

----Original Message----

From: Mike Ricker <a>[mailto:miker@water-right.com]

Sent: Thursday, August 26, 2010 4:17 PM

To: Brian Wayner Subject: RE: Suds

Sorry Brian,

I don't have any suggestions to help you out on this one. I checked with Badger Labs and they do nearly the same method as you did.

Michael J. Ricker Synergy Environmental Lab, INC 1990 Prospect Court Appleton, WI 54914 Ph# 920-830-2455

----Original Message----

From: Brian Wayner [mailto:Brian.Wayner@omnni.com]

Sent: Thursday, August 26, 2010 12:46 PM

To: Mike Ricker Subject: FW: Suds

Hi Mike,

We are performing stormwater outfall screening for the City of Oshkosh. The outfall in the attached photo has a suds/foam on the surface water.

We ran the detergent test last year and it came back negative. Since the suds/foam is still around, we would like to figure out what it is and who is discharging it. Any suggestions for laboratory analysis? I attached information on Hach's detergent test. Since the test doesn't pick up soaps, is there one you can run? The method we are using is the methylene blue active substances test.

Brian Wayner OMNNI Associates

----Original Message----

From: Jason Weis

Sent: Thursday, August 26, 2010 12:25 PM

To: Brian Wayner Subject: Suds Rescreen of last years outfall with suds still has suds. Do you want me to do anything other than the typical sample?

Sent from my U.S. Cellular(r) Windows(r) phone.

This email is subject to OMNNI Associates, Inc. Electronic File Disclaimer. For full disclaimer see http://www.omnni.com/legal/OMNNI_Email_Disclaimer.pdf

Jason Weis

From: Brian Wayner

Sent: Thursday, August 26, 2010 6:26 PM

To: Rabe, James E. Cc: Jason Weis

Subject: Oshkosh screening

James,

None of the samples tested today were either outside "normal" observed conditions or had any indications of contaminants (detergents all came back 0 ppm). The lab manager at Synergy didn't have any suggestions and he checked with Badger Labs and they run the same test we do. I will do some searching on the internet and see if there are any suggestions of other approaches we could take.

I have a meeting in Door County tomorrow morning and then will be spending the rest of the day (hopefully) enjoying the weather and tourist stuff. I will be bake in the office on Monday. Jason will also be out of the office tomorrow.

Have a great weekend!

Brian Wayner, P.E. Environmental Manager

OMNNI Associates, Inc.
One N. Systems Drive, Appleton, WI 54914-1654
800.571.6677, 920.830-6141 (D), 920.830-6100 (F)
bwayner@omnni.com

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