# Initial Screening Summary Report

Illicit Discharge Detection and Elimination Program

City of Oshkosh

May 18, 2010

OMNNI Project No. N2029A09

ENGINEERING • ARCHITECTURE • ENVIRONMENTAL



# Illicit Discharge Detection and Elimination Conducted For City of Oshkosh

# **Initial Screening Summary Report**

## **Summer 2009**

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#### **PURPOSE**

Under the Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No WI-S050075-1 ("permit"), the City of Oshkosh is required to conduct an initial field screening at all major outfalls during dry weather periods. OMNNI Associates, Inc. (OMNNI) assisted the City of Oshkosh with this screening process during the summer of 2009. The results of this initial field screening are summarized in this report.

#### **OUTFALL IDENTIFICATION**

#### **Background**

The City of Oshkosh identified major and minor outfalls within the city as part of the municipal separate storm sewer system (MS4) mapping process required by the permit. Per the MS4 permit definitions, outfalls with a diameter of 36 inches or larger (or equivalent area) draining 50 or more acres were considered major outfalls. In addition, outfalls with a diameter of 12 inches or larger (or equivalent area) draining 2 or more acres of industrial areas were also considered major. The City provided this information to OMNNI prior to the start of the screening process. A map showing the major outfall locations is included in Appendix A.

For the initial screening program, OMNNI screened all of the outfalls identified as major in the City's MS4 mapping. Minor outfalls should be included in the ongoing field screening to be conducted in future years.

#### Outfall Mapping

The locations of the major and minor MS4 outfalls were previously identified by the City of Oshkosh as part of the MS4 mapping requirements. Using the outfall data provided by the City, OMNNI located the major outfalls during the initial screening and updated the geographical positions of the outfalls based on the GPS coordinates recorded during the screening process. A map showing the locations of the major outfalls that were included in the initial screening program is included in Appendix A.

Using the City's standard naming convention, the outfall ID for closed-pipe outfalls was the same as the manhole ID of the first upstream manhole. Swale outfalls were also given a unique ID by the City based on their location.

In cases where upstream manholes were required to be screened, such as when an outfall was partially- or fully-submerged, the screening location was identified by appending "US1" to the outfall ID, designating the first upstream manhole. In certain cases where additional upstream manholes required screening, they were numbered sequentially – US2, US3, etc.

#### **GENERAL OBSERVATIONS**

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

#### Flow

To meet the requirement of dry weather screening, outfalls were typically screened at least 72 hours after the previous rainfall event. Despite this time period, 2 of the 109 major outfalls had dry weather flow, as described below:

- 14-676 (moderate flow)
- 16-646 (trickle flow)

(Note that if the outfall was partially or fully submerged, it is not included in this list. Submerged outfalls, along with the observed flow patterns, are described in the next section.)

If dry weather flow was found during the field screening, a sample was collected and analyzed for the presence of indicator parameters. The analysis that was 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.

#### **Submerged Outfalls**

Many of the outfalls in the City are located at or below the normal levels of Lake Winnebago and the Fox River. 41 of the 109 major outfalls were partially submerged, and 34 outfalls were fully submerged. Of the 34 fully-submerged outfalls, 33 could not be physically located, because they extended into the water past the shoreline. In those cases, the outfall location was based on the prior MS4 mapping. In addition, 4 outfalls (09-32, 09-101a, 09-101b and 09-101c) could not be located because they were behind a chain-link fence on the shoreline, but were assumed to be partially or fully submerged based on their locations.

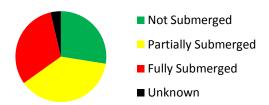


Figure 1 - Submerged outfall summary

Because of the invert elevations of many of the storm sewers along the shorelines, many of the upstream manholes are also partially or fully submerged for several blocks inland. While the normal practice for screening submerged outfalls is to trace the network back to the first non-submerged manhole for screening, OMNNI and the City negotiated with the Wisconsin Department on Natural Resources (WDNR) to reduce the amount of upstream screening that would be required. For any partially- or fully-submerged outfalls, the next upstream manhole would be screened. If that manhole was also submerged, a sample would be collected from the pool in the manhole and analyzed for the standard indicator parameters. If no indicator parameters were present in the first upstream manhole, the screening for the outfall would be considered complete.

Of the 75 partially- and fully-submerged outfalls, 4 outfalls exhibited no flow, 16 had a slight flow, and one had a significant flow. For the remaining 54, the flow could not be determined, either because the end of the outfall was not located (33 outfalls), or it was not possible to determine if there might be a slight flow into the receiving water or manhole pool.

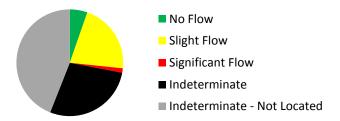


Figure 2 - Flow characteristic of submerged outfalls

#### **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 upstream manhole. 85 stormwater samples were collected from the following locations:

Location	Sample ID	Location Description
01-278 US1	090909-64	Manhole upstream of submerged outfall 01-278
01-329 US1	090908-26	Manhole upstream of submerged outfall 01-329
01-35 US1	090909-50	Manhole upstream of submerged outfall 01-35
01-360 US1	090908-24	Manhole upstream of submerged outfall 01-360
03-119 US1	090909-63	Manhole upstream of submerged outfall 03-119
03-22 US1	090910-09	Manhole upstream of submerged outfall 03-22
03-293 US1	090909-62	Manhole upstream of submerged outfall 03-293
03-35 US1	090910-68	Manhole upstream of submerged outfall 03-35
03-81 US1	090909-66	Manhole upstream of submerged outfall 03-81
03-81 US2	090909-69	Manhole upstream of submerged outfall 03-81
03-81 US3	090909-70	Manhole upstream of submerged outfall 03-81
03-81 US4	090909-72	Manhole upstream of submerged outfall 03-81
03-81 US5	090910-36	Manhole upstream of submerged outfall 03-81
05-14 US1	090909-59	Manhole upstream of submerged outfall 05-14
05-155 US1	090909-52	Manhole upstream of submerged outfall 05-155
05-216 US1	090909-61	Manhole upstream of submerged outfall 05-216
05-241 US1	090909-60	Manhole upstream of submerged outfall 05-241
05-264 US1	090909-51	Manhole upstream of submerged outfall 05-264
06-1028 US1	090910-72	Manhole upstream of submerged outfall 06-1028
06-1136 US1	090903-20	Manhole upstream of submerged outfall 06-1136
06-15 US1	090910-03	Manhole upstream of submerged outfall 06-15
06-1694 US1	090910-25	Manhole upstream of submerged outfall 06-1694

Location	Sample ID	Location Description
06-216 US1	090910-01	Manhole upstream of submerged outfall 06-216
06-253 US1	090910-26	Manhole upstream of submerged outfall 06-253
06-560 US1	090910-24	Manhole upstream of submerged outfall 06-560
06-729 US1	090910-10	Manhole upstream of submerged outfall 06-729
06-810 US1	090910-65	Manhole upstream of submerged outfall 06-810
08-270 US1	090908-28	Manhole upstream of submerged outfall 08-270
09-101a US1	090910-67	Manhole upstream of submerged outfall 09-101a
09-101b US1	090910-05	Manhole upstream of submerged outfall 09-101b
09-101c US1	090911-71	Manhole upstream of submerged outfall 09-101c
09-84 US1	090910-21	Manhole upstream of submerged outfall 09-84
11-173 US1	090908-22	Manhole upstream of submerged outfall 11-173
11-244 US1	090908-05	Manhole upstream of submerged outfall 11-244
11-376 US1	090908-04	Manhole upstream of submerged outfall 11-376
11-400 US1	090908-10	Manhole upstream of submerged outfall 11-400
11-465 US1	090908-08	Manhole upstream of submerged outfall 11-465
11-479 US1	090908-25	Manhole upstream of submerged outfall 11-479
11-64 US1	090908-11	Manhole upstream of submerged outfall 11-64
12-576 US1	090909-12	Manhole upstream of submerged outfall 12-576
12-925 US1	090902-01	Manhole upstream of submerged outfall 12-925
13-101 US1	090904-08	Manhole upstream of submerged outfall 13-101
13-1098 US1	090903-35	Manhole upstream of submerged outfall 13-1098
13-1174 US1	090903-40	Manhole upstream of submerged outfall 13-1174
13-1219 US1	090904-27	Manhole upstream of submerged outfall 13-1219
13-1242 US1	090904-12	Manhole upstream of submerged outfall 13-1242
13-1283 US1	090903-32	Manhole upstream of submerged outfall 13-1283
13-2332 US1	090903-25	Manhole upstream of submerged outfall 13-2332
13-2613	090903-28	Outfall 13-2613
13-2613 US1	090903-09	Manhole upstream of submerged outfall 13-2613
13-2957 US1	090904-21	Manhole upstream of submerged outfall 13-2957
13-3099 US1	090903-34L	Manhole upstream of submerged outfall 13-3099
13-3162	090903-08L	Outfall 13-3162
13-337 US1	090904-04	Manhole upstream of submerged outfall 13-337
13-471	090904-05	Outfall 13-471
13-875 US1	090903-24	Manhole upstream of submerged outfall 13-875
13-948 US1	090903-37L	Manhole upstream of submerged outfall 13-948
14-188 US1	090909-55	Manhole upstream of submerged outfall 14-188
14-331 US1	090909-53	Manhole upstream of submerged outfall 14-331
14-400 US1	090909-58	Manhole upstream of submerged outfall 14-400
14-595	090904-03	Outfall 14-595
14-676	090904-10	Outfall 14-676

Location	Sample ID	Location Description
14-996 US1	090904-01	Manhole upstream of submerged outfall 14-996
14-999	090904-22	Outfall 14-999
15-1032 US1	090902-04	Manhole upstream of submerged outfall 15-1032
15-1067 US1	090902-27	Manhole upstream of submerged outfall 15-1067
15-1093 US1	090902-03	Manhole upstream of submerged outfall 15-1093
15-1095	090902-03L	Outfall 15-1095
15-1095 US1	090902-08	Manhole upstream of submerged outfall 15-1095
15-1248 US1	090902-07	Manhole upstream of submerged outfall 15-1248
15-1263 US1	090902-11	Manhole upstream of submerged outfall 15-1263
15-1348 US1	090902-05	Manhole upstream of submerged outfall 15-1348
15-1348 US2	090902-10	Manhole upstream of submerged outfall 15-1348
15-1889	090902-10L	Outfall 15-1889
15-2243 US1	090908-21	Manhole upstream of submerged outfall 15-2243
15-744 US1	090902-12	Manhole upstream of submerged outfall 15-744
15-787 US1	090908-09	Manhole upstream of submerged outfall 15-787
15-910 US1	090908-03	Manhole upstream of submerged outfall 15-910
15-940 US1	090902-05L	Manhole upstream of submerged outfall 15-940
15-959 US1	090908-20	Manhole upstream of submerged outfall 15-959
16-487 US1	090911-08	Manhole upstream of submerged outfall 16-487
16-646	090908-01	Outfall 16-646
Canal_a	090911-63	Outfall Canal_a
Canal_b	090911-28	Outfall Canal_b
OSH-9424 US1	090909-57	Manhole upstream of submerged outfall OSH-9424

Table 1 - Stormwater sample locations

The following indicator parameters were tested, as specified in the permit:

- pH
- Chlorine
- Copper
- Phenols
- Detergents

In addition, the temperature of the sample was also recorded at the time of collection.

The pH of each sample was measured in the field at the time the sample was collected, and the readings ranged from 6.9 to 9.0. A pH of 9 or greater is slightly higher than expected in normal stormwater samples, but could occur due to contact with the concrete storm sewer pipe conveying the stormwater.

Chlorine (free chlorine and total chlorine) and copper were also tested in the field using test strips. No samples tested positive for chlorine or copper.

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 detergent; however, the following 13 samples exhibited abnormal results during the detergent test:

- 01-329 US1
- 01-35 US1
- 01-360 US1
- 03-22 US1
- 03-35 US1
- 05-14 US1
- 05-241 US1
- 06-810 US1
- 09-84 US1
- 11-173 US1
- 11-376 US1
- 12-576 US1
- OSH-9424 US1

These abnormal results are discussed in the Potential Illicit Discharges section below.

#### 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 a minor physical or chemical indicator
- Suspect presence of two or more minor physical or chemical indicators, or presence of one or more significant indicators
- Obvious visible evidence of current or past illicit discharge

Of the 109 major outfalls, 85 were classified as unlikely, 15 were classified as potential, 8 were classified as suspect, and 1 was classified as obvious. The outfalls that were classified as anything other than "unlikely" are summarized in the table below and discussed in more detail in the following sections.

Outfall	Classification	Reason
		Abnormal detergent test result from 9/9/2009 sample (upstream
01-35	Potential	manhole)
		Abnormal detergent test result from 9/8/2009 sample (upstream
01-329	Potential	manhole)
01-360	Potential	Abnormal detergent test result from 9/8/2009 sample (upstream

Outfall	Classification	Reason
		manhole)
		Abnormal detergent test result from 9/9/2009 sample (upstream
03-293	Potential	manhole)
		Abnormal detergent test result from 9/9/2009 sample (upstream
05-14	Potential	manhole)
	_	Abnormal detergent test result from 9/9/2009 sample (upstream
05-241	Potential	manhole)
00.010		Abnormal detergent test result from 9/10/2009 sample (upstream
06-810	Potential	manhole)
00.04	Data attal	Abnormal detergent test result from 9/10/2009 sample (upstream
09-84	Potential	manhole)
09-101c	Potential	Slight oil sheen in upstream manhole
44.4=0		Abnormal detergent test result from 9/8/2009 sample (upstream
11-173	Potential	manhole)
13-3099	Potential	Slight oil sheen in downstream pool
14-595	Potential	Slight oil sheen in upstream manhole
14-676	Potential	Persistent suds in downstream pool
15-1093	Potential	Ammonia-like odor in sample from upstream manhole
15-1095	Potential	Milky sheen on surface of downstream pool
		Significant floatables (solid waste) and abnormal detergent test result
03-22	Suspect	from 9/10/2009 in upstream manhole
03-35	Suspect	Significant floatables (solid waste) in upstream manhole
06-560	Suspect	Significant floatables (solid waste) in upstream manhole
		Significant floatables (solid waste) and abnormal detergent test result
11-376	Suspect	from 9/8/2009 in upstream manhole
		Significant floatables (solid waste) and brown-tinted water in upstream
11-465	Suspect	manhole
		Significant floatables (solid waste) and abnormal detergent test result
12-576	Suspect	from 9/9/2009 in upstream manhole
15-1348	Suspect	Significant deposits of grass clippings in outfall pipe and upstream inlet
OSH-		Significant floatables (solid waste), brown-tinted water, and abnormal
9424	Suspect	detergent test result from 9/8/2009 in upstream manhole
03-81	Obvious	Diesel-fuel odor and grease-covered floatables in upstream manhole

Table 2 - Outfalls with elevated illicit discharge classifications

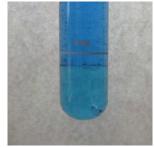
#### **Outfalls with Abnormal Detergent Test Results**

When conducting the analytical test for detergents, 13 of the samples produced an abnormal result during the test. Following the detergent analysis, the bottom portion of the test tube is typically either clear to indicate no detergent, or a shade of blue to indicate the concentration of detergent present in the sample (Figure 3). However, in these 13 samples, the bottom portion was clear with small bubbles (Figure 4). While this does not indicate that detergent was present, it is an abnormal test result.



No Detergent Present

Figure 3 – Typical Detergent Test Results



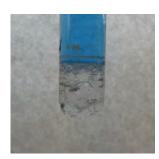
**Detergent Present** 



Outfall 01-35 US1



Outfall 01-329 US1



Outfall 01-360 US1



Outfall 03-293 US1



Outfall 05-14 US1



Outfall 05-241 US1



Outfall 06-810 US1



Outfall 09-84 US1



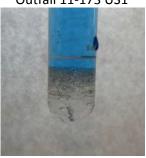
Outfall 11-173 US1



Outfall 03-22 US1



Outfall 11-376 US1



Outfall 12-576 US1



Outfall OSH-9424 US1

Figure 4 - Abnormal Detergent Test Results

In an attempt to interpret these abnormal test results, OMNNI contacted the test kit supplier (Hach) as well as local laboratory testing services. No additional information was obtained from either source. OMNNI also contacted George Bowman from the Inorganic Chemistry Department of the State Laboratory of Hygiene. Mr. Bowman has been conducting this Methylene Blue Active Substances (MBAS) test for 37 years. He indicated that the bubbles are physical emulsions that should not be mistaken for chemical interferences or detergents. They commonly occur when testing turbid waters. He confirmed that as long as the bubbles did not include any of the blue color, then no detergent was present.

Based on this information, the 13 samples that exhibited the abnormal test result would not be indicators of a potential illicit discharge, and the outfalls or upstream manholes associated with these samples will not need increased monitoring under the ongoing screening program.

#### **Outfalls with Significant Floatables**

Eight 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 shown below.



Figure 5 - Floatables in upstream manhole 03-22 US1



Figure 6 - Floatables in upstream manhole 03-35 US1



Figure 7 - Floatables in upstream manhole 06-560 US1



Figure 8 - Floatables in upstream manhole 11-376 US1



Figure 9 - Floatables in upstream manhole 11-465 US1



Figure 10 - Floatables in upstream manhole 12-576 US1



Figure 11 - Floatables in upstream manhole OSH-9424 US1





Figure 12 - Floatables in upstream manholes 03-81 US1 and US2 (with diesel fuel and grease)

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 "suspect." In outfall 03-38, the presence of diesel fuel and grease, along with the floatable debris, caused the status to be raised to "obvious."

Outfalls with significant floatable debris should be vacuumed 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.

#### **Outfalls with Oil Sheens**

Three outfalls or upstream manholes showed signs of possible oil sheens, either in upstream manholes or downstream pools.

The upstream manhole for outfall 09-101c was located in the center of W. 6<sup>th</sup> Avenue. During the inspection, a slight sheen was observed on the pool in the submerged manhole. Because the sheen was very faint, and because there was no observed flow in the pool, the sheen was most likely a result of street runoff from W. 6<sup>th</sup> Avenue. No immediate action was required at this time, but this manhole should be observed during the first year of the ongoing screening program to verify that this is not an ongoing discharge. If an oil sheen is still present, the manhole and surrounding storm sewer should be cleaned with a vacuum truck to remove any residual contamination, and re-inspected to determine if there is an active source of oil contamination.



Figure 13 - Oil sheen in upstream manhole 09-101c US1

Outfall 13-3099 is located on Pheasant Creek Drive, and drains into a stormwater pond located within a residential area. The drainage area is entirely residential. There was a small sheen located in the pool downstream from the outfall. The pond has significant amounts of cattails and other vegetation, so natural sheens could be expected. However, the sheen did not appear to break up when stirred, so it was suspected to be an oil sheen. Because of the land use in the area, along with the relatively small amount of observed sheen, the likely source was runoff from the residential streets. No immediate action was required at this time, but this manhole should be observed during the first year of the ongoing screening program to verify that this is not an ongoing discharge. If an oil sheen is still present, the upstream manhole and surrounding storm sewer should be cleaned with a vacuum truck to remove any residual contamination, and re-inspected to determine if there is an active source of oil contamination.



Figure 14 - Oil sheen in outfall 13-3099

The upstream manhole for outfall 14-595 is located at the end of W. 33<sup>rd</sup> Avenue. During the inspection, there was no flow in the catch basin, but the bottom of the catch basin was wet. There was a slight oil sheen on the water in the pool. No obvious discharges were observed at the time of the inspection. However, this catch basin is located in an industrial area, with an Oshkosh Corporation facility to the north and another manufacturing facility to the south. No immediate action was required at this time, but this manhole should be observed during the first year of the ongoing screening program to verify that this is not an ongoing discharge.



Figure 15 - Oil sheen in upstream manhole 14-595 US1

#### 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 box 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.

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.

It is recommended that this outfall be reinspected during the first year of the ongoing screening program to determine if this is an ongoing problem. If suds are observed again at that time, or as a result of a complaint, additional samples should be collected and analyzed. In addition, because this could be an intermittent discharge from washing operations upstream, alternate test methods, such as optical brightener traps at the outfall, may be considered.



Figure 16 - Suds in receiving stream for outfall 14-676

#### Outfall 15-1093 (N. Main Street)

Outfall 15-1093 discharges into a stream on the east side of N. Main Street. Because the outfall was partially-submerged, the upstream manhole in N. Main Street was sampled. This manhole was also submerged, so a sample was collected from the pool in the manhole.

Tests for all indicator parameters were negative on this sample. However, when checking for odor, a faint, burning, ammonia-like odor was detected from the sample. The sample was tested for ammonia, but the test strip indicated no ammonia was present.

The drainage area for this outfall is relatively small. It primarily consists of a print shop to the west and a business equipment distributer to the east. While it is possible that a discharge could be originating from the print shop, the odor did not resemble alcohol or solvent.

It is recommended that this outfall be reinspected during the first year of the ongoing screening program. If this odor is still present at that time, additional analytical tests may be required to identify any chemicals present in the sample, along with potential sources.

#### Outfall 15-1095 (N. Main Street)

Outfall 15-1095 discharges into a stream on the east side of N. Main Street. There was a slight flow coming from the outfall, and the flow had a faint, wispy, milky sheen on the surface. The

sheen did not break up when stirred, which would make a natural sheen appear unlikely. The sheen did not exhibit the typical rainbow colors of an oil sheen.

Because the outfall was partially-submerged, the upstream manhole in N. Main Street was sampled. This manhole was also submerged, so a sample was collected from the pool in the manhole. No sheen was observed in the upstream manhole. An additional sample was collected from the surface of the outfall pool, including some of the sheen material.

Neither sample tested positive for any of the typical indicator parameters. In addition, no colors or odors were detected in either sample. There are no identified storm sewer connections between the upstream manhole and the outfall.

It is recommended that this outfall be reinspected during the first year of the ongoing screening program. If this sheen is still present at that time, additional analytical tests may be required to identify any chemicals present in the sheen, along with potential sources.



Figure 17 – Milky sheen in flow for outfall 15-1095

#### Outfall 15-1348 (North Park Estates)

Outfall 15-1348 is located on the west border of Winnebago County Park. It receives flow from the residential area immediately west of the park. While conducting the screening at the outfall, a significant amount of grass clippings were submerged in the outfall pipe. The mat of grass clipping appeared to be approximately six inches thick. While some vegetation debris and grass clippings are typical in outfalls, especially those in residential areas, the amount in the outfall appeared excessive.



Figure 18 - Grass clippings in outfall 15-1348

The first upstream manhole could not be located, as it appeared to be buried in a landscaped area. Because the storm sewer divided into two branches at this manhole, the next upstream manholes in each branch were screened. The upstream manhole for the south branch was a catchbasin located at the end of Chateau Terrace. This catchbasin had no flow, and showed no indicators of illicit discharge and almost no grass clippings. The upstream manhole for the north branch was a catchbasin located at the end of Prairie Court. This catchbasin also had no flow, but had more significant amounts of grass clippings in the catchbasin, as well as in the immediate area around the catchbasin.



Figure 19 – Grass clippings in and around upstream manhole 15-1348 US2

If grass clippings continue to be a problem in this outfall, it may be necessary to target this neighborhood for an education campaign concerning the proper disposal of grass clippings and yard waste. It may also be necessary to conduct some maintenance at the outfall to remove the mat of grass clippings if they are not removed naturally.

#### **Outfall 03-81 (Pioneer Drive)**

Outfall 03-81 discharges near the railroad trestle at the north end of Pioneer Drive. The outfall was fully-submerged, and the MS4 mapping suggests that the end of the pipe may be 90 feet past the shoreline. As a result, the outfall was screened at the upstream manhole.

The first upstream manhole was located on the south side of Pioneer Drive, behind the railroad control shed. When the manhole was opened, a strong smell of diesel fuel was detected inside the manhole. The manhole was also submerged, and had a significant amount of floatable debris, which appeared to be coated with oil and grease.



Figure 20 - Upstream manhole 03-81 US1



Figure 21 – Floatable debris and grease in upstream manhole 03-81 US1

A sample was collected from upstream manhole 03-81 US1. The sample had a grayish-black color, and had a strong odor of diesel fuel. The sampling equipment and container were coated in grease from penetrating the floatable debris. None of the typical sampling parameters tested positive. Because of the obvious odor of diesel fuel and appearance of grease, no additional VOC or oil/grease tests were run. The railroad track ballast in the area showed no signs of stains or other leaks, so a railroad spill seemed unlikely.



Figure 22 – Sample container from upstream manhole 03-81 US1

After receiving authorization from the City to use the contingency funds set aside for the project, additional upstream manholes were screened in an attempt to determine the extent of the contamination and the possible source. The first upstream manhole could not be located, as it was buried under the ballast in the railroad right-of-way. The second upstream manhole was located, also in the railroad right-of-way. This manhole (03-81 US2) also had oil-covered floatables, but the diesel odor was not as significant as in 03-81 US1.



Figure 23 – Floatable debris in upstream manhole 03-81 US2

Additional upstream manholes were sampled along E. 10<sup>th</sup> Avenue. The manholes on 10<sup>th</sup> Avenue did not have the floatable debris or the diesel odor. However, they did have a reddish-brown tint to the submerged pool, and showed a slight oil sheen. The property on the south side of 10<sup>th</sup> Avenue is a steel fabrication facility, and the property on the north side is a metal salvage facility. Both could be potential sources of oil and grease.



Figure 24 - Oil sheen in upstream manhole 03-81 US4

The drainage area for this storm sewer branch includes the properties along E. 10<sup>th</sup> Avenue, as well as properties on W. 10<sup>th</sup> Avenue, west of Main Street. The upstream manholes west of Main Street were also screened, and were found to be dry, with significant amounts of dry sediment inside the manholes. It appeared that the most likely sources of the illicit discharge would be east of Main Street.

Typically, when an illicit discharge is occurring, the highest concentrations of the contaminant are detected closest to the source. As the discharge moves downstream, it becomes more dilute. However, in this case, the strongest concentrations of diesel fuel and grease appeared to be at the downstream manhole. It appears that, in this case, the contaminants (diesel fuel and grease, as well as floatable debris) likely accumulated at the downstream manhole because the submerged manholes trapped the floatable contaminants. As the river levels fluctuated throughout the year, it is possible that some of the upstream manholes became partially-submerged or non-submerged, allowing any trapped stormwater (and related contaminants) to escape downstream to the next manhole. Because the river level never drops below the top of the pipe in the downstream manhole (03-81 US1), floatable contaminants likely never escape.

The City and OMNNI believe that the illicit discharge evidence for this outfall was not caused by one significant event. Rather, it was likely caused by a gradual buildup of diesel fuel and oil/grease over many years, which became trapped in the downstream manholes. Upon discovering the problem, the City vacuumed the upstream manholes. A follow-up inspection of manhole 03-81 US1 revealed that the manhole was still full-submerged, but the sample collected from the pool did not have a detectable odor.

This outfall and the associated upstream manholes should be reinspected during the first year of the ongoing screening program, and then annually for several years after that. If it appears that diesel fuel or oil/grease is accumulating in the downstream manholes, then there may be an ongoing illicit discharge upstream, and the source will need to be determined through closer monitoring.

#### **OUTFALL CONDITION ASSESSMENTS**

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

#### Graffiti

Graffiti was identified at three of the major outfalls. Two of the outfalls (14-659 and 14-660) were located on the east side of the Oregon Street bridge, south of 25<sup>th</sup> Avenue.





Figure 25 - Outfall 14-659 and 14-660 graffiti

The other graffiti was observed under the N. Washburn Street bridge, south of Linway Court, at outfall 16-646.





Figure 26 - Outfall 16-646 graffiti

#### Damage

Eight outfalls showed signs of damage that may require attention in the near future. Several concrete pipes had dislocated end pipe sections (11-244 and 14-999) or aprons (13-1554, 14-659 and 14-660). Several corrugated metal pipes had ends that were crushed, with holes or tears at the end of the pipe (15-1067, 15-1217 and 15-1219). The damage is shown in the photos below.



Figure 27 - Outfall 11-244 displaced pipe section



Figure 28 - Outfall 13-1554 displaced apron



Figure 29 - Outfall 14-659 displaced apron



Figure 30 - Outfall 14-660 displaced apron



Figure 31 - Outfall 14-999 displaced pipe section



Figure 32 - Outfall 15-1067 crushed CMP with holes



Figure 33 - Outfall 15-1217 crushed CMP



Figure 34 - Outfall 15-1219 crushed CMP

#### **Erosion**

None of the outfalls showed excessive erosion at the end of the outfall pipe. For non-submerged outfalls, there appeared to be sufficient rip-rap or other erosion control measures in place to minimize erosion from the pipe flows. For the fully-submerged outfalls that could not be located, it was not possible to inspect for erosion at the end of the pipe.

#### CONCLUSION

OMNNI assisted the City of Oshkosh with the initial screening of the major MS4 outfalls, as required by the permit. A total of 109 major outfalls were screened, along with upstream manholes when necessary. Of those 109 major outfalls, 85 exhibited unlikely potential of past illicit discharges, 15 were classified as "potential," 8 was classified as "suspect," and 1 was classified as "obvious." These results are summarized in Figure 35:

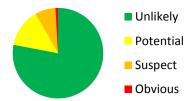


Figure 35 - IDDE potential summary

Those major outfalls classified as "potential," "suspect" or "obvious" should be given special attention in the ongoing screening program.

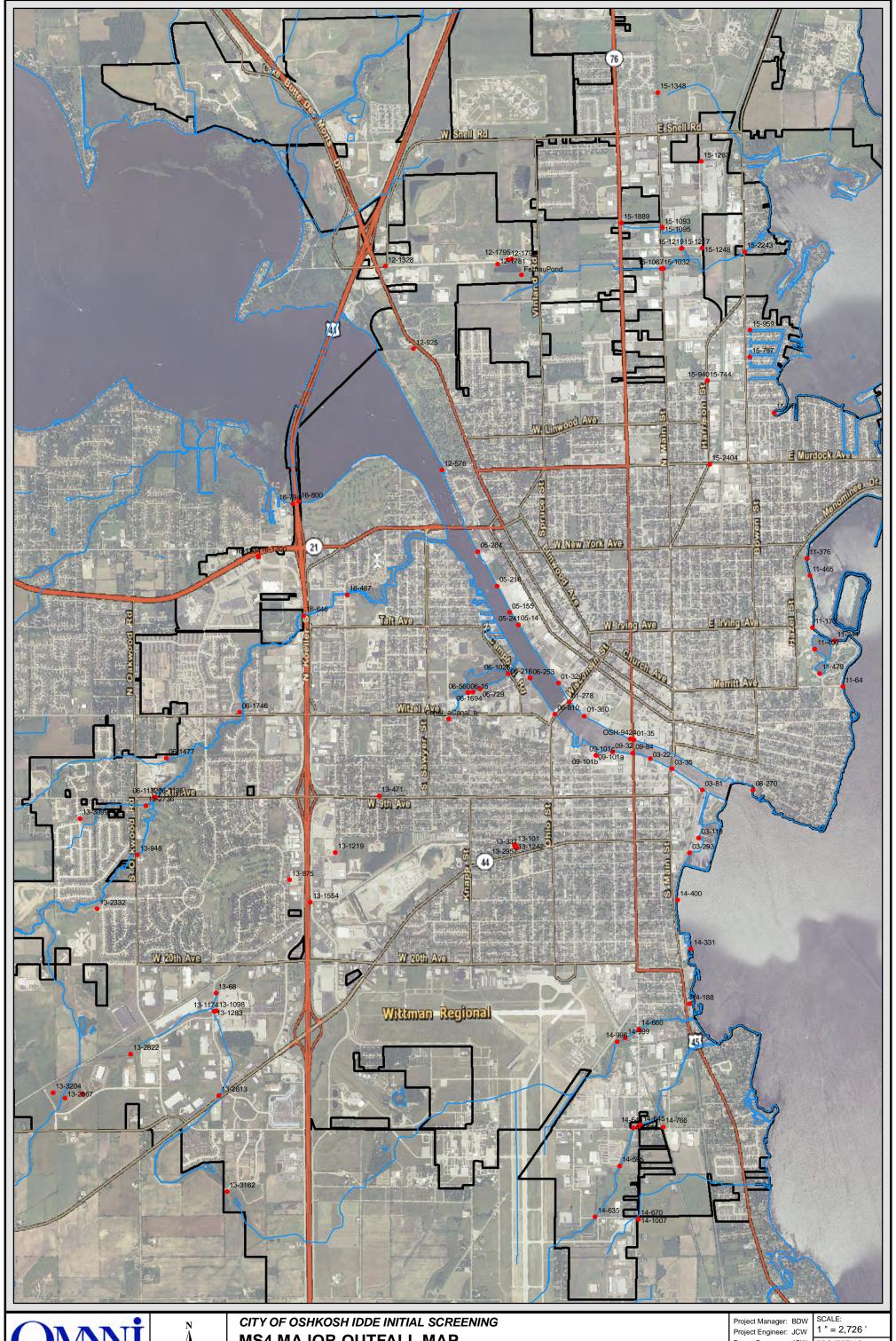
In addition, the initial screening identified three outfalls with graffiti, eight with structural damage, and none with severe erosion. While none of these posed an immediate danger, the City will likely want to address these issues as part of the regular storm sewer system maintenance.

#### 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. Wayner, P.E.	
	Project Manager	

# **Appendix A**MS4 Outfall Map







**MS4 MAJOR OUTFALL MAP** 

CITY OF OSHKOSH WINNEBAGO COUNTY, WISCONSIN

PROJECT NO. **N2029A09** Drawn By: JCW Checked By: BDW

FIGURE NO. **A-1** Date: 11/30/2009

# Appendix B Major Outfall Inspection Reports

# Outfall ID: 01-35 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

#### **GPS Coordinates:**

Northing: 737,891.48 Easting: 2,351,955.53



DSCN6708.JPG

#### Outfall Notes:

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



Inspection Date: 9/9/	2009 Inspector: JCW	Flow Description: Subm	erged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	il: Potential	Submerg	ed in Water: Partially	
Notes:			inches: 21	the second second
		Submerged	in Sediment: No	
Physical Indicators (Outfa	II and Surrounding Area)		inches: 0	The same of the sa
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Spalling/Cracking	g/Chipping	
Deposits/Stains	Oily Paint	☐ Flow Line ☐ Other:		9
Pipe Benthic Growth	☐ Brown ☐ Orange	Green Other:		09.09.2009 11:12
Abnormal Vegetation	☐ Inhibited ☐ Excessi	ive		DSCN6709.JPG
Poor Pool Quality	Odors Colors	Oil Sheen Suds	Floatables	
	Excessive Algae	Other:		
Physical Indicators (In Flo	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Rancid/Soi	ur 🗌 Petroleum 🗌 Ot	her:
Floatables:	☐ Sewage	☐ Suds ☐ Petroleum	Other:	
Color:	☐ Clear	☐ Brown ☐ Green	Orange Re	ed Blue Yellow
Turbidity:			Gray Ot	her:
Sampling Results				
Sample Location: None				

#### Outfall ID: 01-35 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 737,963.20 Easting: 2,351,956.93



DSCN6711.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.

#### **Location Map**



Inspection Date: 9/9/2	nspector: JCW	Flow Description:	Submerged, indetermi	nate Previou	s Rainfall (hrs):	72+
Illicit Discharge Potential	: Potential	S	ubmerged in Water: Pa	rtially	1	
Notes: Abnormal deterger	nt analysis result (bubbles)		inches: 14		1	
		Subn	nerged in Sediment: No			
Physical Indicators (Outfall	l and Surrounding Area)		inches: 0			
Outfall Damage	☐ Corrosion ☐ Peel	ing Paint   Spalling/0	Cracking/Chipping			
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:			Marin I
Pipe Benthic Growth	☐ Brown ☐ Orange	e Green O	ther:			.00.2000 11:18
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive			DSCN6712.JPG	ì
Poor Pool Quality	Odors Colors	Oil Sheen S	uds			
	Excessive Algae	Other:				
Physical Indicators (In Flow	v, if outfall is flowing)					
Odor:	☐ Sewage	Sulfide Rar	ncid/Sour	m Other:		
Floatables:	☐ Sewage	Suds Pet	roleum   Other:			
Color:	☐ Clear	☐ Brown ☐ Gre	een Orange	Red	Blue	Yellow
Turbidity:			Gray	Other:		
Sampling Results						
Sample Location: Pool	Tota	al Chlorine (field):	0 ppm Phenol:	0	mg/L	
Sample ID: 090909	9-50 Fre	e Chlorine (field):	0 ppm Detergent	ts: 0	mg/L	
Time Collected: 1120			0 ppm		.=	
	рН	(field): 8.6	1 units Temperat	ure: 78	°F	

# Outfall ID: 01-278 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

#### GPS Coordinates:

Northing: 739,095.64 Easting: 2,349,880.16



DSCN6704.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 01-278 US1. Pipe info from MS4 map.



Inspection	Date: 9/9/2	.009 Inspe	ector: JCW	Flow Des	scription: Su	bmerged, indetermina	ate	Previous Rainfall (hrs): 72+	
Illicit Discharge Potential: Unlikely Submerged in Water: Fully									
Notes:				inches:					
Submerged in Sediment:									
Physical Indicators (Outfall and Surrounding Area)				inches:				Photo Not Available Submerged Outfall	
Outfall Damage		☐ Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping							
Deposits/S	stains	Oily	Paint	☐ Flow Lin	ne 🗌 Other:				
Pipe Benth	ic Growth	Brown	Orange	Green	Other:				
Abnormal	Vegetation	Inhibited	I Excessiv	/e				_Submerged.jpg	
Poor Pool Quality		Odors	Colors	Oil Shee	en 🗌 Suds	Floatables			
		Excessiv	ve Algae	Other:					
Physical Inc	<u>licators (In Flo</u>	w, if outfall is i	flowing)						
Odor:			Sewage	Sulfide	Rancid/	Sour Petroleum	Oth	ner:	
Floatables:			Sewage	Suds	Petroleu	ım Other:			
Color:			Clear	Brown	Green	Orange	Red	d Blue Yellow	
Turbidity:						Gray	Oth	ner:	
Sampling Results									
Sample Location: None									

# Outfall ID: 01-278 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,109.06 Easting: 2,349,891.64



DSCN6705.JPG

Outfall Notes:

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





Inspection Date: 9/9/2009 Inspector:	JCW Flow Description: Sub	merged, indeterminate F	Previous Rainfall (hrs): 72+							
Illicit Discharge Potential: Unlikely Submerged in Water: Fully										
Notes:		inches: 48								
	Submerge	d in Sediment: No	1							
Physical Indicators (Outfall and Surrounding Are	<u>ea)</u>	inches: 0								
Outfall Damage Corrosion	Peeling Paint	ng/Chipping								
Deposits/Stains Oily P	aint Flow Line Other:									
Pipe Benthic Growth Brown C	range 🗸 Green 🗌 Other:		09. 09. 0000 pt 11							
Abnormal Vegetation Inhibited E	xcessive		DSCN6706.JPG							
Poor Pool Quality Odors O	olors Oil Sheen Suds	Floatables								
Excessive Algae	Other:									
Physical Indicators (In Flow, if outfall is flowing)										
Odor: Se	ewage   Sulfide   Rancid/S	our Petroleum Other	r:							
Floatables: Se	wage Suds Petroleur	n Other:								
Color:	ear 🗌 Brown 🗌 Green	Orange Red	☐ Blue ☐ Yellow							
Turbidity:		Gray Other	r:							
Sampling Results										
Sample Location: Pool	Total Chlorine (field): 0 ppr	n Phenol:	0 mg/L							
Sample ID: 090909-64	Free Chlorine (field): 0 ppr	•	0 mg/L							
Time Collected: 1049	Total Copper (field): 0 ppr		70 oF							
	pH (field): 7.81 uni	ts Temperature:	76 °F							

# Outfall ID: 01-329 NR 216 Classification:

Major Outfall
Structure: Closed Pipe

Diameter (in): Height (in): Width (in):

Material: CMP

Shape: Circular

48

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

### GPS Coordinates:

Northing: 739,705.33 Easting: 2,349,534.14



DSCN6665.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 01-329 US1. Pipe info from MS4 map.

# Location Map



Inspection Date: 9/8/2	2009 Inspector: JCW Flow Description: Submerged, ind	determinate Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	I: Potential Submerged in Water	ter: Fully
Notes:	inche	es:
	Submerged in Sedimer	
Physical Indicators (Outfai	I and Surrounding Area) inche	Photo Not Available
Outfall Damage	☐ Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint Flow Line Other:	
Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Abnormal Vegetation	☐ Inhibited ☐ Excessive	_Submerged.jpg
Poor Pool Quality	Odors Oil Sheen Suds Floatable	les
	Excessive Algae Other:	
Physical Indicators (In Flo	w, if outfall is flowing)	
Odor:	Sewage Sulfide Rancid/Sour Pe	etroleum Other:
Floatables:	Sewage Suds Petroleum Ot	Other:
Color:		orange
Turbidity:	☐ Gr	iray Other:
Sampling Results		
Sample Location: None		

# Outfall ID: 01-329 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,756.91 Easting: 2,349,546.73 09 75 2008 75 29

DSCN6666.JPG

### Outfall Notes:

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

### **Location Map**



Inspection Date: 9/8/2009 Inspec	ctor: JCW Flow Description	on: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Potential		Submerged in Water: Fully	
Notes: Abnormal detergent analysis resu	ult (bubbles)	inches: 48	
	Sı	ubmerged in Sediment: No	
Physical Indicators (Outfall and Surround	<u>ling Area)</u>	inches: 0	
Outfall Damage Corrosion	n 🗌 Peeling Paint 🗌 Spallir	g/Cracking/Chipping	
Deposits/Stains Oily	Paint Flow Line	Other:	
Pipe Benthic Growth Brown	Orange Green	Other:	08,2009 15:29
Abnormal Vegetation	Excessive		DSCN6667.JPG
Poor Pool Quality Odors	Colors Oil Sheen	Suds Floatables	
Excessive	e Algae		
Physical Indicators (In Flow, if outfall is flow	owing)		
Odor:	Sewage Sulfide I	Rancid/Sour  Petroleum  Ot	ther:
Floatables:	Sewage Suds	Petroleum Other:	
Color:	☐ Clear ☐ Brown ☐ €	Green Orange Re	ed Blue Yellow
Turbidity:		☐ Gray ☐ Ot	ther:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090908-26	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1535	Total Copper (field):	0 ppm	
	pH (field):	8.7 units Temperature:	76 °F

# Outfall ID: 01-360 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 738,648.61 Easting: 2,350,365.90



DSCN6661.JPG

### Outfall Notes:

Outfall fully submerged. Outfall screened upstream at 01-360 US1. Intermediate manholes inside fenced area on private property.

### **Location Map**



Inspection Date: 9/8/2	2009 Inspector: JCW	Flow Description:	Submerged, indetermina	ate Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	l: Potential	S	ubmerged in Water: Fully	
Notes:			inches: 44	
		Subr	nerged in Sediment:	
Physical Indicators (Outfa	ll and Surrounding Area)		inches:	
Outfall Damage	Corrosion Peeli	ing Paint	Cracking/Chipping	
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green O	ther:	09.08.2008 15:08
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive		DSCN6660.JPG
Poor Pool Quality	Odors Colors	Oil Sheen S	uds	
	Excessive Algae	Other:		
Physical Indicators (In Flo	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Rai	ncid/Sour  Petroleum	Other:
Floatables:	☐ Sewage	Suds Det	roleum   Other:	
Color:	☐ Clear	☐ Brown ☐ Gre	een Orange	Red Blue Yellow
Turbidity:			☐ Gray	Other:
Sampling Results				
Sample Location: None				

### Outfall ID: 01-360 US1 **Location Map** NR 216 Classification: Major Outfall - Alternate Location Structure: Manhole 09.08.2009 15:17 DSCN6662.JPG Office Follow-up Required Field Follow-up Required Outfall Notes: Damaged Upstream manhole located approx 242 ft NE of Grafitti outfall 01-360. Intermediate area consists of ☐ Significant Erosion industrial area inside fence. **GPS Coordinates:** 738,849.90 Northing: 2,350,495.19 Easting: Inspection Date: 9/8/2009 Inspector: JCW Flow Description: Submerged, indeterminate Previous Rainfall (hrs): 72+ Submerged in Water: Partially Illicit Discharge Potential: Potential inches: 32 Notes: Abnormal detergent analysis result (bubbles). Faint brown Submerged in Sediment: No inches: 0 Physical Indicators (Outfall and Surrounding Area) **Outfall Damage** ☐ Peeling Paint ☐ Spalling/Cracking/Chipping Corrosion Deposits/Stains Oily Paint Flow Line Other: **Pipe Benthic Growth** Brown Orange Green Other: DSCN6663.JPG **Abnormal Vegetation** ☐ Inhibited ☐ Excessive **Poor Pool Quality** Odors ✓ Colors Oil Sheen Suds Floatables Excessive Algae Other: Physical Indicators (In Flow, if outfall is flowing) Odor: Sewage Sulfide Rancid/Sour Petroleum Other: Floatables: Sewage Suds Petroleum Other: Color: Clear Brown Green Orange Red Blue Yellow Other: Gray Turbidity:

Checked by: BDW 11/11/2009

Pool

1520

090908-24

Sampling Results
Sample Location:

Sample ID:

Time Collected:

0 ppm

0 ppm

0 ppm

8.34 units

Phenol:

Detergents:

Temperature:

0 mg/L

0 mg/L

77 °F

Total Chlorine (field):

Free Chlorine (field):

Total Copper (field):

pH (field):

## Outfall ID: 03-22

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 36
Width (in): 58
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 737,292.08 Easting: 2,352,475.98



DSCN6765.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 03-22 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9	/10/2009 Inspector: JCW	Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Pote	ntial: Suspect	Si	ubmerged in Water: Fully	
Notes:			inches:	
		Subn	nerged in Sediment:	
Physical Indicators (O	utfall and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Spalling/0	Cracking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:	
Pipe Benthic Growtl	n Brown Orange	☐ Green ☐ O	ther:	
Abnormal Vegetatio	n Inhibited Excess	ve		_Submerged.jpg
Poor Pool Quality	Odors Colors	Oil Sheen S	uds	
	Excessive Algae	Other:		
Physical Indicators (In	Flow, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Rar	ncid/Sour Petroleum	Other:
Floatables:	☐ Sewage	Suds Pet	roleum   Other:	
Color:	☐ Clear	☐ Brown ☐ Gre		Red Blue Yellow
Turbidity:			Gray	Other:
Sampling Results				
Sample Location: No	one			

### Outfall ID: 03-22 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 737,234.97 Easting: 2,352,477.85 SE TO MAN SULLA

DSCN6767.JPG

### Outfall Notes:

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

### **Location Map**



Inspection Date: 9/10/200	9 Inspector: JCW	Flow Description:	Submerged, indetermin	ate Previous	s Rainfall (hrs):	72+
Illicit Discharge Potential:	Suspect	Sı	ubmerged in Water: Fully			
Notes: Abnormal detergent a floatables in manhole		J	inches: 44 nerged in Sediment: No	A		
Physical Indicators (Outfall ar	nd Surrounding Area)	<b>G</b> 42	inches: 0			
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Spalling/0	Cracking/Chipping		Marie San	
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:			
Pipe Benthic Growth	Brown Orange	Green O	ther:	3. 7	00	46,2009 00:49
Abnormal Vegetation	Inhibited Excessi	ve			DSCN6768.JPG	A STREET STREET
Poor Pool Quality	Odors Colors  Excessive Algae	Oil Sheen So	uds 🗸 Floatables			
Physical Indicators (In Flow, I	if outfall is flowing)					
Odor:	☐ Sewage	Sulfide Rar	ncid/Sour Petroleum	Other:		
Floatables:	Sewage	Suds Pet	roleum Other:			
Color:	☐ Clear	☐ Brown ☐ Gre	en Orange	Red	Blue	Yellow
Turbidity:			☐ Gray	Other:		
Sampling Results						
Sample Location: Pool	Tota	al Chlorine (field):	0 ppm Phenol:	0	mg/L	
Sample ID: 090910-0	19	, ,	0 ppm Detergents	:: 0	mg/L	
Time Collected: 0952			0 ppm 3 units Temperatu	re: 75	°F	

# Outfall ID: 03-35 NR 216 Classification:

Major Outfall

Width (in):

Structure: Closed Pipe
Diameter (in): 30
Height (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,966.43 Easting: 2,353,172.83



DSCN6761.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 03-35 US1. Pipe info from MS4 map.



Inspection Date: 9/10/2	2009 Inspector: JCW	Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	I: Suspect	Sub	merged in Water: Fully	
Notes:			inches:	
		Subme	rged in Sediment:	
Physical Indicators (Outfai	ll and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	☐ Corrosion ☐ Peelin	ng Paint	acking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	☐ Flow Line ☐ Oth	er:	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green Oth	er:	
Abnormal Vegetation	☐ Inhibited ☐ Excessive	/e		_Submerged.jpg
Poor Pool Quality	Odors Colors	Oil Sheen Sud	ls Floatables	
	Excessive Algae	Other:		
Physical Indicators (In Flo	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Ranci	id/Sour Petroleum (	Other:
Floatables:	☐ Sewage	Suds Petro	leum  Other:	
Color:	☐ Clear	☐ Brown ☐ Green	9	Red Blue Yellow
Turbidity:			Gray	Other:
Sampling Results				
Sample Location: None				

# Outfall ID: 03-35 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

- ☐ Office Follow-up Required☐ Field Follow-up Required☐
- DamagedGrafitti
- ☐ Significant Erosion

GPS Coordinates:

Northing: 736,961.61 Easting: 2,353,153.84



DSCN6762.JPG

### Outfall Notes:

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

### **Location Map**



Inspection	Date: 9/10	0/ <b>2009</b> Insp	ector: JCW	Flow Des	scription:	Submer	ged, indetermir	nate Pre	evious Rainfall (hr	rs): 72+
Illicit Disch	narge Potent	ial: Suspect			Su	bmerged	in Water: Full	у		
		gent analysis re	esult (bubbles).	Significant			inches: 33	1	6	
floa	atables in ma	nhole.			Subm	erged in	Sediment: No	1	The state of	
Physical In	dicators (Out	fall and Surrour	nding Area)				inches: 0	678	MT (2)	
Outfall Da	mage	Corrosi	on 🗌 Peelii	ng Paint 🗌 S	Spalling/C	racking/C	Chipping	100	1 752	
Deposits/	Stains	Oily	Paint	Flow Lin	e 🗌 Otl	ner:				
Pipe Bent	hic Growth	Brown	Orange	Green	Otl	ner:			-0000	08.10.2009 09:24
Abnormal	Vegetation	Inhibite	d 🗌 Excessi	ve					DSCN6763	3.JPG
Poor Pool	l Quality	Odors	Colors	Oil Shee	en 🗌 Su	ds 🗸 F	Floatables			
		Excess	ive Algae	Other:						
Physical In	<u>dicators (In F</u>	low, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Ran	cid/Sour	Petroleum	Other:		
Floatables	:		Sewage	Suds	Petro	oleum	Other:			
Color:			☐ Clear	Brown	Gree	en	Orange	Red	Blue	Yellow
Turbidity:							Gray	Other:		
Sampling F	Results									
Sample Loc	cation: Poo	I	Tota	l Chlorine (field	d): C	ppm	Phenol:		0 mg/L	
Sample ID:	090	910-68		Chlorine (field	,	ppm	Detergents	3:	0 mg/L	
Time Collec	cted: 092	5		l Copper (field) field):		ppm units	Temperatu	ıre:	73 °F	

# Outfall ID: 03-81 NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in): 24

Height (in):

Width (in):

Material: CIP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

 ${\sf GPS}\ {\sf Coordinates} \colon$ 

Northing: 736,282.38 Easting: 2,354,142.55



DSCN6745.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 03-81 US1-5. Pipe info from MS4 map.



Inspection	Date: 9/9/2	009 Insp	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ate	Previous Rainfall (h	rs): 72+
Illicit Disch	arge Potential	: Obvious			Submerged	in Water: Fully			
Notes:						inches:			
					Submerged in				
Physical Inc	<u>licators (Outfall</u>	and Surrour	nding Area)			inches:		Photo Not A	vailable
Outfall Dar	mage	Corrosi	on 🗌 Peelir	g Paint 🗌 🤄	Spalling/Cracking/C	Chipping		Submerged	Outfall
Deposits/S	Stains	Oily	Paint	☐ Flow Lin	ne   Other:				
Pipe Benth	nic Growth	Brown	Orange	Green	Other:				
Abnormal	Vegetation	Inhibite	d Excessiv	⁄e				_Submerge	ed.jpg
Poor Pool	Quality	Odors Excessi	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
Physical Inc	dicators (In Flow	v, if outfall is	flowing)						
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	her:	
Floatables:			Sewage	Suds	Petroleum	Other:			
Color:			Clear	Brown	Green	Orange	Re	d Blue	Yellow
Turbidity:						Gray	Oth	her:	
Sampling Re	<u>esults</u>								
Sample Loc	ation: None								

### Outfall ID: 03-81 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,169.81 Easting: 2,354,119.38



DSCN6746.JPG

### Outfall Notes:

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

### **Location Map**



Inspection Date: 9/9	9/2009 Inspector:	JCW Flow Descri	iption: Submer	ged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potent	ial: Obvious		Submerged	in Water: Fully	
	sheen on surface. Floa	atables with grease.		inches: 44	
Brown/gray colo	r.		Submerged in		
Physical Indicators (Out	fall and Surrounding Ar	<u>ea)</u>		inches: 0	
Outfall Damage	Corrosion	Peeling Paint Spa	alling/Cracking/C	Chipping	TO THE STATE OF TH
Deposits/Stains	Oily F	Paint	Other:		
Pipe Benthic Growth	Brown 0	Orange 🗌 Green	Other:		69 09 2009 14:14
Abnormal Vegetation	☐ Inhibited ☐ E	xcessive			DSCN6747.JPG
Poor Pool Quality	✓ Odors ✓ (	Colors	Suds 🗸 F	Floatables	
	Excessive Alga	e Other:			
Physical Indicators (In F	<u>low, if outfall is flowing</u>	<u>)</u>			
Odor:	S	ewage   Sulfide	Rancid/Sour	Petroleum Ot	her:
Floatables:		ewage	Petroleum	Other:	
Color:	C	lear Brown	Green	Orange Re	ed Blue Yellow
Turbidity:				Gray Ot	her:
Sampling Results					
Sample Location: Poo		Total Chlorine (field):	0 ppm	Phenol:	0 mg/L
Sample ID: 0909	909-66	Free Chlorine (field):	0 ppm	Detergents:	0 mg/L
Time Collected: 141		Total Copper (field):	0 ppm		
233104.		pH (field):	6.98 units	Temperature:	73 °F

### Outfall ID: 03-81 US2

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

Significant Erosion

**GPS Coordinates:** 

Northing: 735,855.73 Easting: 2,354,022.11



DSCN6750.JPG

### Outfall Notes:

Upstream manhole located approx 329 ft SSW of 03-81 US1. Intermediate manhole not found. Intermediate area consists of railroad right-of-way covered with ballast.

### **Location Map**



Inspection Date: 9/9/2009 Inspector:	JCW Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Obvious	Su	ubmerged in Water: Fully	
Notes: Floatables with oil stains. Slight petrole	eum odor.	inches:	
	Subm	nerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Ar	<u>ea)</u>	inches: 0	
Outfall Damage	Peeling Paint Spalling/C	Cracking/Chipping	
Deposits/Stains Oily F	Paint  Flow Line  O	ther:	
Pipe Benthic Growth Brown C	Orange Green O	ther:	09.09.2002.3004
Abnormal Vegetation  Inhibited  E	xcessive		DSCN6751.JPG
Poor Pool Quality ✓ Odors ☐ C	Colors 🗸 Oil Sheen 🗌 Su	uds 🗸 Floatables	
Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing)	<u>.</u>		
Odor: Se	ewage 🗌 Sulfide 🔲 Ran	ncid/Sour	Other:
Floatables: Se	ewage 🗌 Suds 📗 Peti	roleum Other:	
Color:	lear 🗌 Brown 🗌 Gre	en 🗌 Orange 🔲 R	ed Blue Yellow
Turbidity:		☐ Gray ☐ O	other:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090909-69	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1452		0 ppm	_
	pH (field):	units Temperature:	<b>°F</b>

### Outfall ID: 03-81 US3

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

Damaged

☐ Grafitti
☐ Significant Erosion

**GPS Coordinates:** 

Northing: 735,766.39 Easting: 2,353,910.56



DSCN6753.JPG

### Outfall Notes:

Upstream manhole located approx 114 ft SW of 03-81 US2. Intermediate area consists of right-of-way for unpaved street.

### **Location Map**



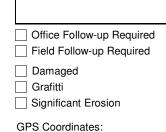
Inspection Date: 9/9/2009 Insp	pector: JCW Flow Descrip	tion: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Suspect		Submerged in Water: Fully	The state of the s
Notes: Rust colored floatables and she	een on surface. Slight odor.	inches:	
		Submerged in Sediment: Partially	
Physical Indicators (Outfall and Surrour	nding Area)	inches: 0	
Outfall Damage Corrosi	on 🗌 Peeling Paint 🗌 Spall	ling/Cracking/Chipping	
Deposits/Stains Oily	☐ Paint ☐ Flow Line ☐	Other:	
Pipe Benthic Growth Brown	Orange Green	Other:	22 22 22 22 23
Abnormal Vegetation  Inhibite	d Excessive		DSCN6754.JPG
Poor Pool Quality	☐ Colors ✓ Oil Sheen	Suds 🗸 Floatables	
Excess	ive Algae		
Physical Indicators (In Flow, if outfall is	flowing)		
Odor:	Sewage Sulfide	Rancid/Sour Petroleum Of	ther:
Floatables:	Sewage Suds	Petroleum Other:	
Color:	☐ Clear ☐ Brown ☐	Green Orange Re	ed Blue Yellow
Turbidity:		☐ Gray ☐ Ot	ther:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090909-70	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1453	Total Copper (field):	0 ppm	
	pH (field):	units Temperature:	°F

### Outfall ID: 03-81 US4

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole



Northing: 735,758.91 Easting: 2,353,739.73

# 09\_09-2008\_15:17

DSCN6756.JPG

### Outfall Notes:

Upstream manhole located approx 171 ft W of 03-81 US3. Intermediate area consists of right-of-way for street with industrial sources on north and south

### **Location Map**



Inspection Date: 9/9/2009 Inspect	or: JCW Flow Description	: Submerged, indeterminate	Previous Rainfall (hrs): 72+				
Illicit Discharge Potential: Suspect Submerged in Water: Fully							
Notes: Rust colored floatables and sheen non-petroleum odor. Rust color to		inches: nmerged in Sediment: Partially					
Physical Indicators (Outfall and Surrounding	<u>g Area)</u>	inches:					
Outfall Damage Corrosion	Peeling Paint Spalling	/Cracking/Chipping					
Deposits/Stains Oily	Paint Flow Line	Other:					
Pipe Benthic Growth Brown	Orange Green	Other:	00.00.2000 (15).11				
Abnormal Vegetation Inhibited	Excessive	!	DSCN6757.JPG				
Poor Pool Quality  Odors  Excessive		Suds 🗸 Floatables					
Physical Indicators (In Flow, if outfall is flow	<u>ving)</u>						
Odor:	Sewage Sulfide Ra	ancid/Sour Petroleum Oth	ner:				
Floatables:	Sewage Suds Pe	etroleum Other:					
Color:	Clear Brown G	reen Orange Re	d Blue Yellow				
Turbidity:		Gray Oth	ner:				
Sampling Results							
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L				
Sample ID: 090909-72	Free Chlorine (field):	0 ppm Detergents:	0 mg/L				
Time Collected: 1525	Total Copper (field): pH (field):	0 ppm units Temperature:	°F				

# Outfall ID: 03-81 US5

NR 216 Classification:

Major Outfall - Alternate Location

major outran	,oa.c	
Structure:		
Office Follo	ow-up Req	uired

Field Follow-up Required

Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,118.99 Easting: 2,353,733.97



DSCN6759.JPG

Outfall Notes:

Upstream manhole located approx 360 ft N of 03-81 US4. Intermediate area consists of industrial (salvage) facility.

### **Location Map**



Inspection Date: 9/10/2009 Inspector:	JCW Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Suspect	Su	ıbmerged in Water: Fully	
Notes: Slight sheen with rust-colored water in	manhole.	inches:	
	Subm	erged in Sediment: Partially	
Physical Indicators (Outfall and Surrounding A	rea)	inches:	100000000000000000000000000000000000000
Outfall Damage Corrosion	Peeling Paint Spalling/C	cracking/Chipping	
Deposits/Stains Oily	Paint	her:	
Pipe Benthic Growth Brown	Orange	her:	05.10.2009.08:12
Abnormal Vegetation	Excessive		DSCN6760.JPG
Poor Pool Quality Odors	Colors Oil Sheen Su	uds 🗸 Floatables	
Excessive Alga	ae Other:		
Physical Indicators (In Flow, if outfall is flowing	<u>)</u>		
Odor:	sewage   Sulfide   Ran	cid/Sour  Petroleum  Oth	ner:
Floatables:	ewage Suds Petr	oleum Other:	
Color:	Clear Brown Gree	en Orange Re	d Blue Yellow
Turbidity:		Gray Oth	ner:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	) ppm Phenol:	0 mg/L
Sample ID: 090910-36	Free Chlorine (field):	) ppm Detergents:	0 mg/L
Time Collected: 0813		) ppm	
	pH (field):	units Temperature:	°F

### Outfall ID: 03-119

NR 216 Classification: Major Outfall

Structure:	Closed Pipe
Diameter (i	n):
Height (in):	13
Width (in):	22
Material:	RCP
Shape:	Elliptical
Barrels:	Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

### GPS Coordinates:

Northing: 734,747.84 Easting: 2,354,027.52



DSCN6741.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 03-119 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/9/	2009 Inspecto	or: JCW	Flow Des	scription: Submer	ged, indetermina	te	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	ıl: Unlikely			Submerged	in Water: Fully		
Notes:					inches:		
				Submerged in			
Physical Indicators (Outfa	II and Surroundin	g Area)			inches:		Photo Not Available
Outfall Damage	Corrosion	Peelin	g Paint 🗌 S	Spalling/Cracking/C	Chipping		Submerged Outfall
Deposits/Stains	Oily [	Paint	☐ Flow Lin	e Other:			
Pipe Benthic Growth	Brown [	Orange	Green	Other:			
Abnormal Vegetation	Inhibited [	Excessiv	ve				_Submerged.jpg
Poor Pool Quality	Odors [	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables		
	Excessive /	Algae	Other:				
Physical Indicators (In Flo	w, if outfall is flow	ving)					
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ner:
Floatables:		Sewage	Suds	Petroleum	Other:		
Color:		Clear	Brown	Green	Orange	Re	d Blue Yellow
Turbidity:					Gray	Oth	ner:
Sampling Results							
Sample Location: None							

### Outfall ID: 03-119 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

	Office Follow-up Required
Г	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 734,663.19 Easting: 2,353,820.17

# 09.09.2009 13:54

DSCN6742.JPG

### Outfall Notes:

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

### **Location Map**



Inspection Date: 9/9/2009 Inspector:	JCW Flow Description: Submer	rged, indeterminate F	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged	d in Water: Fully	
Notes:		inches: 27	
	Submerged in	Sediment: No	
Physical Indicators (Outfall and Surrounding Ar	<u>ea)</u>	inches: 0	
Outfall Damage	Peeling Paint Spalling/Cracking/0	Chipping	
Deposits/Stains Oily F	aint Flow Line Other:		
Pipe Benthic Growth Brown	orange Green Other:		09.09.2009 25.25
Abnormal Vegetation	xcessive	_	DSCN6743.JPG
Poor Pool Quality Odors 0	colors Oil Sheen Suds	Floatables	
☐ Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing			
Odor: S	ewage Sulfide Rancid/Sour	Petroleum Other	r:
Floatables: S	ewage Suds Petroleum	Other:	
Color:	ear 🗌 Brown 🗌 Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Other	r:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090909-63	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 1400	Total Copper (field): 0 ppm	T	70.05
	pH (field): 7.87 units	Temperature:	76 °F

# Outfall ID: 03-293 NR 216 Classification:

Major Outfall
Structure: Closed Pipe

Diameter (in):
Height (in):
Width (in):
58

Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up Required

Field Follow-up Required

☐ Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,271.94 Easting: 2,353,737.13



DSCN6735.JPG

### Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 03-293 US1.



### Inspection Date: 9/9/2009 Inspector: JCW Flow Description: Submerged, indeterminate Previous Rainfall (hrs): 72+ Submerged in Water: Partially Illicit Discharge Potential: Potential inches: 32 Notes: Submerged in Sediment: No inches: 0 Physical Indicators (Outfall and Surrounding Area) **Outfall Damage ✓** Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping Deposits/Stains Oily Paint Flow Line Other: Pipe Benthic Growth Brown Orange ✓ Green Other: DSCN6736.JPG **Abnormal Vegetation** ☐ Inhibited ☐ Excessive **Poor Pool Quality** Odors Colors Oil Sheen Suds Floatables ✓ Excessive Algae Other: Physical Indicators (In Flow, if outfall is flowing) Odor: Sewage Sulfide Rancid/Sour Petroleum Other: Floatables: Sewage Suds Petroleum Other: Color: Clear Brown Green Orange Red Blue Yellow Other: Gray **Turbidity:** Sampling Results Sample Location: None

### Outfall ID: 03-293 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,306.98 Easting: 2,353,699.51



DSCN6738.JPG

### Outfall Notes:

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

### **Location Map**



Inspection Date: 9/9/2009 Inspector: JC	W Flow Description: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Potential	Submerged in Water: Partially	
Notes: Abnormal detergent analysis result (bubbl	es) inches:	The Walls of the Control of the Cont
	Submerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Area)	inches: 0	
Outfall Damage Corrosion P	eeling Paint	
Deposits/Stains ☐ Oily ☐ Pair	nt Flow Line Other:	
Pipe Benthic Growth Brown Ora	nge Green Other:	00.00.2000 13:21
Abnormal Vegetation	essive	DSCN6739.JPG
Poor Pool Quality Odors Cold	ors	
✓ Excessive Algae	Other:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Sewa	age 🗌 Sulfide 📗 Rancid/Sour 📗 Petroleum 🔲 C	Other:
Floatables: Sewa	age Suds Petroleum Other:	
Color: Clea	r Brown Green Orange R	Red Blue Yellow
Turbidity:	☐ Gray ☐ C	Other:
Sampling Results		
Sample Location: Pool	Total Chlorine (field): 0 ppm Phenol:	0 mg/L
Sample ID: 090909-62	Free Chlorine (field): 0 ppm Detergents:	0 mg/L
Time Collected: 1325	Fotal Copper (field): 0 ppm	70 of
	pH (field): 7.82 units Temperature:	78 °F

# Outfall ID: 05-14 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: 741,572.72 Easting: 2,348,253.27



DSCN6696.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 05-14 US1. Pipe info from MS4 map.



Inspection	Date: 9/9/2	.009 Inspe	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ıte	Previous Rainfall (hrs): 72+	
Illicit Discharge Potential: Potential Submerged in Water: Fully									
Notes:						inches:			
					Submerged in				
Physical Inc	licators (Outfal	l and Surroun	<u>ding Area)</u>			inches:		Photo Not Available	
Outfall Dar	nage	Corrosio	n 🗌 Peelir	ng Paint 🔲 🤄	Spalling/Cracking/	Chipping		Submerged Outfall	
Deposits/S	stains	Oily	Paint	☐ Flow Lin	e 🗌 Other:				
Pipe Benth	ic Growth	Brown	Orange	Green	Other:				
Abnormal	Vegetation	Inhibited	I Excessiv	/e				_Submerged.jpg	
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🗌	Floatables			
		Excessiv	ve Algae	Other:					
Physical Inc	<u>licators (In Flo</u>	w, if outfall is i	flowing)						
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ner:	
Floatables:			Sewage	Suds	Petroleum	Other:			
Color:			Clear	Brown	Green	Orange	Re	d Blue Yellow	
Turbidity:						Gray	Oth	ner:	
Sampling Re	esults								
Sample Loc									

### Outfall ID: 05-14 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Fol	low-up Required
Field Follo	ow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 741,746.92 Easting: 2,348,561.92



DSCN6700.JPG

### Outfall Notes:

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

# 05-155 US1 05-14 US1 105-24105-14

**Location Map** 

Inspection Date: 9	/9/2009 Inspect	tor: JCW	Flow Descr	ription: Submer	ged, indeterminate	Previous Rainfall (hrs): 72+		
Illicit Discharge Poten	tial: Potential			Submerged	in Water: Fully			
Notes: Abnormal dete	rgent analysis resul	It (bubbles)			inches: 27			
				Submerged in S				
Physical Indicators (Outfall and Surrounding Area) inches: 0								
Outfall Damage	Corrosion	Peelin	ng Paint 🗌 Sp	alling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Line	Other:				
Pipe Benthic Growth	Brown	Orange	Green	Other:		09.09.2009.10.11		
Abnormal Vegetation	Inhibited	Excessiv	/e			DSCN6701.JPG		
Poor Pool Quality	Odors	Colors	Oil Sheen	Suds F	loatables			
	Excessive	Algae	Other:					
Physical Indicators (In I	Flow, if outfall is flo	wing)						
Odor:		Sewage	Sulfide [	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds [	Petroleum	Other:			
Color:		Clear	Brown [	Green	Orange	Red Blue Yellow		
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: Poo	ol	Total	Chlorine (field):	0 ppm	Phenol:	0 mg/L		
Sample ID: 090	)909-59	Free	Chlorine (field):	0 ppm	Detergents:	0 mg/L		
Time Collected: 101	13		Copper (field):	0 ppm	Tamanamatawa	75 05		
		pH (f	ieia):	8.21 units	Temperature:	75 <b>°</b> F		

# Outfall ID: 05-155

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: VCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 741,966.13 Easting: 2,347,972.68



DSCN6690.JPG

Outfall Notes:

Outfall fully submerged. Outfall screened upstream at 05-155 US1. Pipe info from MS4 map.



Inspection Date: 9/9/2	2009 Inspector: JCW	Flow Description:	Submerged, indeterminat	e Previous Rainfall (hrs): 72+	
Illicit Discharge Potentia	ıl: Unlikely	Sı	bmerged in Water: Fully	100	
Notes:			inches: 27	4.20	
		Subm	erged in Sediment:	1860	
Physical Indicators (Outfa	ll and Surrounding Area)		inches:		
Outfall Damage	Corrosion Peelin	ng Paint 🗌 Spalling/0	racking/Chipping	1399	
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	her:		1
Pipe Benthic Growth	☐ Brown ☐ Orange	Green O	her:	09.09.2009	09:48
Abnormal Vegetation	☐ Inhibited ☐ Excessive	ve		DSCN6691.JPG	
Poor Pool Quality	Odors Colors	Oil Sheen St	ıds		
	Excessive Algae	Other:			
Physical Indicators (In Flo	w, if outfall is flowing)				
Odor:	☐ Sewage	Sulfide Rar	cid/Sour Petroleum	Other:	
Floatables:	☐ Sewage	Suds Pet	oleum Other:		
Color:	☐ Clear	☐ Brown ☐ Gre	en 🗌 Orange	Red Blue Yell	low
Turbidity:			☐ Gray	Other:	
Sampling Results					
Sample Location: None					

### Outfall ID: 05-155 US1 **Location Map** NR 216 Classification: Major Outfall - Alternate Location Structure: Manhole DSCN6693.JPG Office Follow-up Required ☐ Field Follow-up Required Outfall Notes: Damaged Upstream manhole located approx 72 ft NNE of Grafitti outfall 05-155. Intermediate area consists of open ☐ Significant Erosion **GPS Coordinates:** 742,022.56 Northing: Easting: 2,348,019.06 Inspection Date: 9/9/2009 Inspector: JCW Flow Description: Submerged, indeterminate Previous Rainfall (hrs): 72+ Submerged in Water: Fully Illicit Discharge Potential: Unlikely inches: 22 Notes: Submerged in Sediment: No inches: 0 Physical Indicators (Outfall and Surrounding Area) **Outfall Damage** ☐ Peeling Paint ☐ Spalling/Cracking/Chipping Corrosion Deposits/Stains Oily Paint Flow Line Other: **Pipe Benthic Growth** Brown Orange Green Other: DSCN6694.JPG **Abnormal Vegetation** ☐ Inhibited ☐ Excessive **Poor Pool Quality** Odors Colors Oil Sheen Suds Floatables Excessive Algae Other: Physical Indicators (In Flow, if outfall is flowing) Odor: Sewage Sulfide Rancid/Sour Petroleum Other: Floatables: Sewage Suds Petroleum Other: Color: Clear Brown Green Orange Red Blue Yellow Gray Other: **Turbidity:** Sampling Results Sample Location: Total Chlorine (field): Phenol: 0 mg/L Pool 0 ppm Free Chlorine (field): 0 ppm Detergents: 0 mg/L Sample ID: 090909-52 Total Copper (field): 0 ppm Time Collected: 1000

Checked by: BDW 11/11/2009

7.5 units

Temperature:

76 °F

pH (field):

# Outfall ID: 05-216

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: 742,806.98 Easting: 2,347,572.85



DSCN6685.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 05-216 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9	/9/2009 Inspector: JCW	Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+					
Illicit Discharge Potential: Unlikely Submerged in Water: Fully									
Notes:			inches:						
		Subm	nerged in Sediment:						
Physical Indicators (Ou	utfall and Surrounding Area)		inches:	Photo Not Available					
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Spalling/0	Cracking/Chipping	Submerged Outfall					
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:						
Pipe Benthic Growth	☐ Brown ☐ Orange	Green O	ther:						
Abnormal Vegetation	Inhibited Excessi	ve		_Submerged.jpg					
Poor Pool Quality	Odors Colors	Oil Sheen Si	uds						
	Excessive Algae	Other:							
Physical Indicators (In	Flow, if outfall is flowing)								
Odor:	☐ Sewage	Sulfide Rar	ncid/Sour Petroleum	Other:					
Floatables:	☐ Sewage	Suds Pet	roleum   Other:						
Color:	☐ Clear	☐ Brown ☐ Gre	en Orange	Red Blue Yellow					
Turbidity:			☐ Gray	Other:					
Sampling Results									
Sample Location: No	ne								

### Outfall ID: 05-216 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

	Office Follow-up Required
$\Box$	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 742,849.70 Easting: 2,347,645.95



DSCN6686.JPG

### Outfall Notes:

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

### **Location Map**



Inspection I	Date: 9/9/2	2009 Insp	ector: JC	N Flow De	scription:	Submer	ged, indete	rminate	Previo	us Rainfall (hrs):	72+
Illicit Discha	arge Potentia	I: Unlikely			Sı	ubmerged	in Water:	Fully	1		
Notes:							inches:	67	1/10	The state of the s	
					Subn	nerged in	Sediment:		1		
Physical Ind	licators (Outfa	ll and Surroun	ding Area)				inches:	0			
Outfall Dar	nage	Corrosio	on 🗌 Pe	eling Paint	Spalling/0	Cracking/C	Chipping				1
Deposits/S	tains	Oily	☐ Paint	☐ Flow Lir	ne 🗌 O	ther:					
Pipe Benth	ic Growth	Brown	Oran	ge Green	□ 0	ther:					09 09 2009 09 30
Abnormal V	Vegetation	Inhibited	d 🗌 Exce	ssive				'		DSCN6687.JF	PG .
Poor Pool	Quality	Odors	Colo	rs Oil She	en 🗌 Sı	uds 🗸 F	Floatables				
		Excessi	ve Algae	Other:							
Physical Ind	licators (In Flo	w, if outfall is	flowing)								
Odor:			Sewa	ge 🗌 Sulfide	Rar	ncid/Sour	Petrol	eum 🗌 Oth	ner:		
Floatables:			Sewa	ge 🗌 Suds	Pet	roleum	Other	:			
Color:			Clear	Brown	☐ Gre	en	Orang	ge 🗌 Re	d	Blue	Yellow
Turbidity:							Gray	Oth	ner:		
Sampling Re	esults										
Sample Loca			Т	otal Chlorine (fiel	d):	0 ppm	Pheno	l:	C	) mg/L	
Sample ID:	09090	9-61	F	ree Chlorine (field	,	0 ppm	Deterg	jents:		) mg/L	
Time Collect	ted: 0930			otal Copper (field		0 ppm	_			_	
			р	H (field):	7.6	4 units	Tempe	erature:	71	°F	

# Outfall ID: 05-241 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 18
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 741,565.48 Easting: 2,348,256.07



DSCN6696.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 05-241 US1. Pipe info from MS4 map.



Inspection Date: 9/9/2	009 Inspector: JCW	Flow Description: Submerg	ged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	: Potential	Submerged	in Water: Fully	
Notes:			inches:	
		Submerged in S		
Physical Indicators (Outfai	and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	Corrosion Peeling Pai	int Spalling/Cracking/C	Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	Flow Line  Other:		
Pipe Benthic Growth	☐ Brown ☐ Orange ☐	Green Other:		
Abnormal Vegetation	☐ Inhibited ☐ Excessive			_Submerged.jpg
Poor Pool Quality	Odors Colors	Oil Sheen Suds F	loatables	
	Excessive Algae	Other:		
Physical Indicators (In Flo	v, if outfall is flowing)			
Odor:	☐ Sewage ☐ S	Sulfide Rancid/Sour	Petroleum Ot	her:
Floatables:	Sewage S	Suds Petroleum	Other:	
Color:	☐ Clear ☐ I	Brown Green	Orange Re	
Turbidity:			Gray Ot	her:
Sampling Results				
Sample Location: None				

# Outfall ID: 05-241 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up RequiredField Follow-up Required

Damaged

Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 741,751.40 Easting: 2,348,569.77



DSCN6697.JPG

### Outfall Notes:

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



Inspection I	Date: 9/9/2	2009 Inspe	ector: JCW	Flow Des	scription:	Submer	ged, indetermir	nate Pi	revious Rainfall (hrs	): 72+
Illicit Discha	arge Potentia	I: Potential			Su	ıbmerged	I in Water: Par	tially	Marie Control	
Notes: Abn	ormal deterge	nt analysis res	sult (bubbles	)			inches: 13			
					Subm	erged in	Sediment: No			
Physical Ind	licators (Outfa	ll and Surroun	ding Area)				inches: 0			1
Outfall Dan	nage	Corrosio	n 🗌 Pee	ling Paint 🗌 S	Spalling/C	cracking/C	Chipping		18 188	
Deposits/S	tains	Oily	Paint	☐ Flow Lin	ne 🗌 Ot	her:				
Pipe Benth	ic Growth	Brown	Orang	e 🗌 Green	□ Ot	her:				09 09 2009 10 10
Abnormal '	Vegetation	Inhibited	Exces	sive					DSCN6698.	IPG
Poor Pool	Quality	Odors	☐ Colors	Oil Shee	en 🗌 Su	ıds 🗌 l	Floatables			
		Excessiv	e Algae	Other:						
Physical Ind	<u>licators (In Flo</u>	w, if outfall is t	lowing)							
Odor:			Sewage	e Sulfide	Ran	cid/Sour	Petroleum	n Other:		
Floatables:			Sewage	e Suds	Petr	oleum	Other:			
Color:			Clear	Brown	☐ Gre	en	Orange	Red	Blue	Yellow
Turbidity:							Gray	Other:		
Sampling Re	esults									
Sample Loca	ation: Pool		To	tal Chlorine (field	d): (	) ppm	Phenol:		0 mg/L	
Sample ID:	09090	9-60		ee Chlorine (field	,	) ppm	Detergents	s:	0 mg/L	
Time Collect	ted: 1011			tal Copper (field)		) ppm	T		70 °E	
			рН	(field):	8.	1 units	Temperati	ıre:	76 °F	

# Outfall ID: 05-264

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):
Material: CMP
Shape: Circular
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 743,906.93 Easting: 2,346,956.65



DSCN6680.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 05-264 US1. Pipe info from MS4 map.

### **Location Map**



Inspection	Date: 9/9/2	2009 Insp	ector: JCW	Flow Des	scription:	Submerg	ged, indetermina	ite	Previous Rainfall (	hrs): 72+	
Illicit Discharge Potential: Unlikely Submerged in Water: Fully											
Notes:							inches:				
	Submerged in Sediment:										
Physical Ind	licators (Outfal	l and Surroun	<u>ding Area)</u>				inches:		Photo Not	Available	
Outfall Dar	mage	Corrosio	on 🗌 Peelir	ng Paint 🔲 :	Spalling/Cr	racking/C	hipping		Submerged	Outfall	
Deposits/S	stains	Oily	Paint	☐ Flow Lir	ne 🗌 Oth	ner:					
Pipe Benth	ic Growth	Brown	Orange	Green	Oth	ner:					
Abnormal	Vegetation	Inhibited	Excessiv	ve					_Submer	ged.jpg	
Poor Pool	Quality	Odors Excessi	Colors	Oil Shee	en 🗌 Sud	ds 🗌 F	loatables				
Physical Ind	licators (In Flo	w, if outfall is	flowing)								
Odor:			Sewage	Sulfide	Rand	cid/Sour	Petroleum	Oth	her:		
Floatables:			Sewage	Suds	☐ Petro	oleum	Other:				
Color:			Clear	Brown	Gree	en	Orange	Re	d Blue	Yellow	
Turbidity:							Gray	Oth	her:		
Sampling Re	esults										
Sample Loca	ation: None										

### Outfall ID: 05-264 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 743,910.36 Easting: 2,347,045.86

# 09.09.2009 06.02

DSCN6681.JPG

### Outfall Notes:

Upstream manhole (inlet) located approx 89 ft E of outfall 05-264. Intermediate area consists of street right-of-way, with a marina to the south.

### **Location Map**



Inspection Date: 9/9/2	009 Inspector	: JCW	Flow Desc	cription:	Submer	ged, indeter	rminate	Previou	us Rainfall (hrs):	72+
Illicit Discharge Potential	: Unlikely			Su	bmerged	in Water:	Partially	13.4		
Notes:						inches:	25			
				Subm	erged in S	Sediment:				
Physical Indicators (Outfall	and Surrounding	Area)				inches:	0	A.		
Outfall Damage	Corrosion	Peelin	g Paint 🗌 Sp	palling/C	racking/C	Chipping				
Deposits/Stains	Oily	Paint	☐ Flow Line	Ot	her:					1
Pipe Benthic Growth	Brown	Orange	Green	Ot	her:					0.08.2009 08:02
Abnormal Vegetation	Inhibited	Excessiv	ve						DSCN6682.JP	G
Poor Pool Quality	Odors	Colors	Oil Sheen	n 🗌 Su	ds 🗌 F	loatables				
	Excessive Al	gae	Other:							
Physical Indicators (In Flow	<u>v, if outfall is flowi</u>	<u>ng)</u>								
Odor:		Sewage	Sulfide	Ran	cid/Sour	Petrol	eum 🗌 Otl	ner:		
Floatables:		Sewage	Suds	Petr	oleum	Other:	:			
Color:		Clear	Brown	Gree	en	Orang	je 🗌 Re	d	Blue	Yellow
Turbidity:						Gray	Otl	ner:		
Sampling Results										
Sample Location: Pool		Total	Chlorine (field)	: 0	) ppm	Pheno	l:	0	mg/L	
Sample ID: 090909	9-51	Free	Chlorine (field):	: 0	) ppm	Deterg	ents:	0	mg/L	
Time Collected: 0905		Total pH (f	Copper (field): ield):		ppm units	Tempe	erature:	71	°F	

# Outfall ID: 06-15 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: 739,395.99 Easting: 2,346,644.49



DSCN6804.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-15 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/10/2	2009 Inspector: JCW	Flow Description:	Submerged, indeterminat	te Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	l: Unlikely	Si	ubmerged in Water: Fully	
Notes:			inches:	
		Subn	nerged in Sediment:	
Physical Indicators (Outfal	ll and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	Corrosion Peeli	ing Paint	Cracking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green O	ther:	
Abnormal Vegetation	☐ Inhibited ☐ Excessi	ive		_Submerged.jpg
Poor Pool Quality	Odors Colors	Oil Sheen S	uds	
	Excessive Algae	Other:		
Physical Indicators (In Flor	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Rar	ncid/Sour	Other:
Floatables:	☐ Sewage	Suds Det	roleum   Other:	
Color:	☐ Clear	☐ Brown ☐ Gre	en Orange	Red Blue Yellow
Turbidity:			☐ Gray	Other:
Sampling Results				
Sample Location: None				

### Outfall ID: 06-15 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

	Office Follow-up Required
П	Field Follow-up Required

☐ Damaged☐ Grafitti

Significant Erosion

**GPS Coordinates:** 

Northing: 739,207.13 Easting: 2,346,653.80

# 08.10.2009 14:47

DSCN6808.JPG

### Outfall Notes:

Upstream manhole located approx 189 ft S of outfall 06-15. Intermediate area consists of paved road adjacent to wastewater treatment plant and industrial facilities.

### **Location Map**



Inspection I	Date: 9/10/2	009 Insp	ector: JCW	Flow Des	scription:	Submer	ged, indetern	ninate	Previou	us Rainfall (h	rs): 72+
Illicit Discha	arge Potential	: Unlikely			Su	bmerged	in Water: P	artially		A	
Notes:							inches: 1	9	190	17	
					Subm	erged in S	Sediment: N	50			
Physical Indicators (Outfall and Surrounding Area) inches: 0											
Outfall Dan	nage	Corrosi	on 🗌 Peelir	ng Paint 🗌 S	Spalling/C	racking/C	Chipping	i.	THE		
Deposits/S	tains	Oily	Paint	Flow Lin	e 🗌 Otl	her:			1/4	1	
Pipe Benth	ic Growth	Brown	Orange	Green	Otl	her:					09 10 2009 14:47
Abnormal V	Vegetation	Inhibite	d Excessiv	ve						DSCN680	9.JPG
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Su	ds 🗌 F	Floatables				
		Excess	ive Algae	Other:							
Physical Ind	icators (In Flov	v, if outfall is	flowing)								
Odor:			Sewage	Sulfide	☐ Ran	cid/Sour	Petrole	um 🗌 Othe	er:		
Floatables:			Sewage	Suds	Petro	oleum	Other:				
Color:			☐ Clear	Brown	Gree	∍n	Orange	Red		Blue	Yellow
Turbidity:							Gray	Othe	er:		
Sampling Re	esults										
Sample Loca	ation: Pool		Tota	I Chlorine (field	d): C	) ppm	Phenol:		0	mg/L	
Sample ID:	09091	0-03		Chlorine (field	′	) ppm	Deterge	nts:	0	mg/L	
Time Collect	ted: 1448			l Copper (field) field):		ppm units	Tempera	ature:	81	°F	

## Outfall ID: 06-216

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 39
Height (in):
Width (in):

Material: CIP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,876.11 Easting: 2,348,629.23



DSCN6784.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-216 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/10/2	2009 Inspector: JCW Flow Description: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	I: Unlikely Submerged in Water: Fully	
Notes:	inches:	
	Submerged in Sediment:	
Physical Indicators (Outfal	Il and Surrounding Area) inches:	Photo Not Available
Outfall Damage	☐ Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint Flow Line Other:	
Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Abnormal Vegetation	☐ Inhibited ☐ Excessive	_Submerged.jpg
Poor Pool Quality	Odors Oil Sheen Suds Floatables	
	Excessive Algae Other:	
Physical Indicators (In Flor	w, if outfall is flowing)	
Odor:	Sewage Sulfide Rancid/Sour Petroleum Ott	ner:
Floatables:	Sewage Suds Petroleum Other:	
Color:	Clear Brown Green Orange Re	d Blue Yellow
Turbidity:	Gray Oth	ner:
Sampling Results		
Sample Location: None		

### Outfall ID: 06-216 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

	Office Follow-up Required
$\Box$	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,841.67 Easting: 2,348,566.29

# 79 To 2009 12 da

DSCN6787.JPG

### Outfall Notes:

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

### **Location Map**



Inspection Date: 9/10/2009 Inspector:	JCW Flow Description: Subme	erged, indeterminate P	revious Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerge	ed in Water: Fully	
Notes: River fly swarm inside manhole.		inches: 100	
	Submerged in	n Sediment: No	
Physical Indicators (Outfall and Surrounding Are	<u>ea)</u>	inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/Cracking	/Chipping	
Deposits/Stains ☐ Oily ☐ P	aint		
Pipe Benthic Growth Brown C	range Green Other:		±0.10.2000 12.80
Abnormal Vegetation  Inhibited  E	xcessive		DSCN6788.JPG
Poor Pool Quality Odors C	olors	Floatables	
Excessive Algae	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Se	wage Sulfide Rancid/Sou	r Petroleum Other	:
Floatables: Se	wage Suds Petroleum	Other:	
Color:	ear 🗌 Brown 🔲 Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Other	:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090910-01	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 1240	Total Copper (field): 0 ppm		
	pH (field): 6.96 units	Temperature:	79 °F

# Outfall ID: 06-253

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 34
Width (in): 53
Material: RCP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,861.30 Easting: 2,348,629.89



DSCN6785.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-253 US1. Pipe info from MS4 map.





Inspection Date: 9/10/2	2009 Inspector: JCW	Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	l: Unlikely	Su	bmerged in Water: Fully	
Notes:			inches:	
		Subm	erged in Sediment:	
Physical Indicators (Outfai	ll and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Spalling/C	racking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	☐ Flow Line ☐ Ot	her:	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green Ot	her:	
Abnormal Vegetation	☐ Inhibited ☐ Excessi	ve		_Submerged.jpg
Poor Pool Quality	Odors Colors	Oil Sheen Su	ds Floatables	
	Excessive Algae	Other:		
Physical Indicators (In Flo	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Ran	cid/Sour  Petroleum	Other:
Floatables:	☐ Sewage	Suds Petr	oleum	
Color:	☐ Clear	☐ Brown ☐ Gree	en Orange	Red Blue Yellow
Turbidity:			☐ Gray	Other:
Sampling Results				
Sample Location: None				

### Outfall ID: 06-253 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,717.00 Easting: 2,348,406.06



DSCN6790.JPG

### Outfall Notes:

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

### **Location Map**



Inspection	Date: 9/10/	<b>2009</b> Inspe	ector: JCW	Flow Desc	cription:	Submer	ged, slight flo	w l	Previous Rainfall (	hrs): 72+
Illicit Disch	arge Potentia	al: Unlikely			Su	bmerged	in Water: Fu	ılly	1 Alexander	A
Notes: Rive	er fly swarm ir	nside manhole.					inches: 38	3		
					Subm	erged in	Sediment: No	o 🚪	1.7	
Physical Inc	dicators (Outfa	ll and Surroun	ding Area)				inches: 0	1		
Outfall Dai	mage	Corrosio	n 🗌 Peelir	ng Paint 🗌 S <sub>l</sub>	palling/C	racking/C	Chipping			
Deposits/S	Stains	Oily	Paint	☐ Flow Line	e 🗌 Ot	her:		5		
Pipe Benth	nic Growth	Brown	Orange	Green	Ot	her:				£0 10-2000 12:55
Abnormal	Vegetation	Inhibited	Excessive	ve .					DSCN67	91.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 F	Floatables			
		Excessiv	e Algae	Other:						
Physical Inc	dicators (In Flo	w, if outfall is t	flowing)							
Odor:	None		Sewage	Sulfide	Ran	cid/Sour	Petroleu	ım 🗌 Othe	r:	
Floatables:	None		Sewage	Suds	Petr	oleum	Other:			
Color:	None		Clear	Brown	Gree	en	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Othe	r:	
Sampling R	<u>esults</u>									
Sample Loc	ation: Pool		Tota	I Chlorine (field)	): C	) ppm	Phenol:		0 mg/L	
Sample ID:	0909	10-26	Free	Chlorine (field)	: 0	ppm	Deterger	nts:	0 mg/L	
Time Collec	ted: 1255			Copper (field):		ppm	_		<b>50</b> 05	
			pH (	field):	6.92	2 units	Tempera	iture:	79 °F	

# Outfall ID: 06-560 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,394.74 Easting: 2,346,637.66



DSCN6803.JPG

### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-560 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/10/2	2009 Inspector: JCW	Flow Description:	Submerged, indeterminat	te Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	l: Suspect	Sı	ubmerged in Water: Fully	
Notes:			inches:	
		Subn	nerged in Sediment:	
Physical Indicators (Outfa	ll and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	Corrosion Peeli	ng Paint	Cracking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	☐ Flow Line ☐ O	ther:	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green O	ther:	
Abnormal Vegetation	☐ Inhibited ☐ Excessi	ive		_Submerged.jpg
Poor Pool Quality	Odors Colors	Oil Sheen Si	uds	
	Excessive Algae	Other:		
Physical Indicators (In Flo	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Rar	ncid/Sour Petroleum	Other:
Floatables:	☐ Sewage	Suds Det	roleum Other:	
Color:	☐ Clear	☐ Brown ☐ Gre	en Orange	Red Blue Yellow
Turbidity:			Gray	Other:
Sampling Results				
Sample Location: None				

### Outfall ID: 06-560 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required
Damaged

Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,264.29 Easting: 2,346,639.35

# C9. 10-2009 14:44

DSCN6805.JPG

### Outfall Notes:

Upstream manhole located approx 130 ft S of outfall 06-560. Intermediate area consists of paved road adjacent to wastewater treatment plant and industrial facilities.

### **Location Map**



Inspection Date: 9/10/2009 Insp	pector: JCW Flow Desc	ription: Submer	ged, indeterminate	Previous Rainfall (hi	rs): 72+		
Illicit Discharge Potential: Suspect Submerged in Water: Fully							
Notes: Faint sewage/sulfide odor. Thick (8 inches) layer of inches: 58							
floatables in manhole.		Submerged in					
Physical Indicators (Outfall and Surrou	nding Area)	inches: 0					
Outfall Damage							
Deposits/Stains Oily	Paint Flow Line	Other:					
Pipe Benthic Growth Brown	Orange Green	Other:			100 TO 2000 TA 26		
Abnormal Vegetation  Inhibite	ed Excessive			DSCN6806	5.JPG		
Poor Pool Quality ✓ Odors ☐ Colors ☐ Oil Sheen ☐ Suds ✓ Floatables							
Excessive Algae Other:							
Physical Indicators (In Flow, if outfall is flowing)							
Odor:	Sewage Sulfide	☐ Rancid/Sour	Petroleum	Other:			
Floatables:	Sewage Suds	Petroleum	Other:				
Color:	☐ Clear ☐ Brown	Green	Orange	Red Blue	Yellow		
Turbidity:			Gray	Other:			
Sampling Results							
Sample Location: Pool	Total Chlorine (field)	: 0 ppm	Phenol:	0 mg/L			
Sample ID: 090910-24	Free Chlorine (field):		Detergents:	0 mg/L			
Time Collected: 1442	Total Copper (field):	0 ppm					
Timo Comociod.	pH (field):	7.24 units	Temperature:	82 °F			

## Outfall ID: 06-729

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in): 18

Height (in):

Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,513.63 Easting: 2,347,025.46



DSCN6817.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-729 US1. Pipe info from MS4 map.

# **Location Map**



Inspection Date: 9/10/2	2009 Inspector: JCW	Flow Descrip	otion: Submerç	ged, indeterminate	е	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	in Water: Fully		
Notes:				inches:		
			Submerged in S			
Physical Indicators (Outfai	ll and Surrounding Area)			inches:		Photo Not Available
Outfall Damage	Corrosion Peeli	ing Paint 🗌 Spal	lling/Cracking/C	hipping		Submerged Outfall
Deposits/Stains	Oily Paint	Flow Line	Other:			
Pipe Benthic Growth	☐ Brown ☐ Orange	Green [	Other:			
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				_Submerged.jpg
Poor Pool Quality	Odors Colors Excessive Algae	Oil Sheen [ Other:	Suds F	Floatables		
Physical Indicators (In Flo	w, if outfall is flowing)					
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ner:
Floatables:	☐ Sewage	Suds	Petroleum	Other:		
Color:	☐ Clear	Brown	Green	Orange	Re	d Blue Yellow
Turbidity:				☐ Gray	Oth	ner:
Sampling Results						
Sample Location: None						

## Outfall ID: 06-729 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
☐ Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,047.10 Easting: 2,347,237.99

# OB: TO: 2089 15:28

DSCN6818.JPG

#### Outfall Notes:

Upstream manhole located approx 522 ft SSE of outfall 06-729. Intermediate manholes located inside wastewater treatment plant. Intermediate area consists of treatment plant and roads.

## **Location Map**



Inspection	Date: 9/10/2	009 Insp	ector: JCW	Flow Des	scription: Subm	erged, slight flow	Pre	evious Rainfall (hr	's): 72+
-	arge Potential			1.011.20		ed in Water: Fully	-		5). 121
	large Fotential	. Offlikely			Odbinerg	inches: 13	1	2	1
Notes:					Submorgad				
					Submerged	in Sediment: No inches: 0			
Physical Inc	<u>dicators (Outfal</u>	l and Surrour	<u>iding Area)</u>			iliches. 0			
Outfall Da	mage	Corrosi	on 🗌 Peelir	ng Paint 🗌 🥄	Spalling/Cracking	g/Chipping			E.A.
Deposits/S	Stains	Oily	☐ Paint	☐ Flow Lin	ne Other:			FILE	
Pipe Bentl	hic Growth	Brown	Orange	Green	Other:		134	N. Telephone	09.10, 2009 15:29
Abnormal	Vegetation	Inhibite	d 🗌 Excessiv	ve				DSCN6819	JPG
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds 📗	Floatables			
		Excessi	ve Algae	Other:					
Physical Inc	dicators (In Flor	v, if outfall is	flowing)						
Odor:	None		Sewage	Sulfide	Rancid/So	ur 🗌 Petroleum	Other:		
Floatables:	None		Sewage	Suds	Petroleum	Other:			
Color:	None		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:	None					Gray	Other:		
Sampling R	esults								
Sample Loc	ation: Pool		Tota	I Chlorine (field	d): 0 ppm	Phenol:		0 mg/L	
Sample ID:	09091	0-10	Free	Chlorine (field	i): 0 ppm	Detergents	:	0 mg/L	
Time Collec		- <del>-</del>	Tota	l Copper (field)	): 0 ppm				
Time Collec	neu. 1020		pH (1	field):	7.2 units	Temperatu	re:	75 °F	

## Outfall ID: 06-810

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 738,711.60 Easting: 2,349,421.33



DSCN6798.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-810 US1. Pipe info from MS4 map.

# Location Map



Inspection Date: 9/10/2	2009 Inspector: JCW	Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	I: Potential	Su	bmerged in Water: Fully	
Notes:			inches:	
		Subm	erged in Sediment:	
Physical Indicators (Outfal	ll and Surrounding Area)		inches:	Photo Not Available
Outfall Damage	☐ Corrosion ☐ Peeli	ng Paint 🗌 Spalling/C	racking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint	☐ Flow Line ☐ Ot	her:	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green Ot	her:	
Abnormal Vegetation	☐ Inhibited ☐ Excessi	ve		_Submerged.jpg
Poor Pool Quality	Odors Colors	☐ Oil Sheen ☐ Su	ids Floatables	
	Excessive Algae	Other:		
Physical Indicators (In Flor	w, if outfall is flowing)			
Odor:	☐ Sewage	Sulfide Ran	cid/Sour Petroleum	Other:
Floatables:	☐ Sewage	Suds Petr	oleum Other:	
Color:	☐ Clear	☐ Brown ☐ Gree		Red Blue Yellow
Turbidity:			Gray	Other:
Sampling Results				
Sample Location: None				

## Outfall ID: 06-810 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 738,655.09 Easting: 2,349,369.49



DSCN6800.JPG

#### Outfall Notes:

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

## **Location Map**



Inspection Date: 9/10/2009 Insp	ector: JCW FI	ow Description:	Submerged, indeterm	ninate Previo	us Rainfall (hrs):	72+
Illicit Discharge Potential: Potentia	Į	Su	bmerged in Water: Pa	artially	1000	1000
Notes: Abnormal detergent analysis re	esult (bubbles)		inches: 6			8
		Subme	erged in Sediment: N	0		إدهار
Physical Indicators (Outfall and Surrous	nding Area)		inches: 0			
Outfall Damage Corrosi	on	t Spalling/C	racking/Chipping			4
Deposits/Stains Oily	Paint F	low Line  Oth	her:			
Pipe Benthic Growth Brown	Orange O	Green 🗌 Oth	her:	`	The state of	09.10.2009 14:08
Abnormal Vegetation  Inhibite	d Excessive				DSCN6801.JF	'G
Poor Pool Quality Odors	Colors C	Oil Sheen 🔲 Su	ds			
Excess	ive Algae 🔲 C	Other:				
Physical Indicators (In Flow, if outfall is	flowing)					
Odor:	Sewage Su	ulfide 🗌 Rand	cid/Sour	um Other:		
Floatables:	Sewage Su	uds 🗌 Petro	oleum Other:			
Color:	☐ Clear ☐ Bi	rown 🗌 Gree	en Orange	Red	Blue	Yellow
Turbidity:			☐ Gray	Other:		
Sampling Results						
Sample Location: Pool	Total Chlori	ne (field): 0	ppm Phenol:	C	) mg/L	
Sample ID: 090910-65	Free Chlorin	, ,	) ppm Deterger	nts: C	) mg/L	
Time Collected: 1405	Total Coppe pH (field):	,	) ppm 2 units Tempera	ature: 82	2 ℉	

# Outfall ID: 06-1028

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 12
Height (in):
Width (in):
Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 740,003.61 Easting: 2,347,926.15



DSCN6793.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-1028 US1. Pipe info from MS4 map.

## **Location Map**



Inspection Da	ite: 9/10/2	009 Inspe	ector: JCW	Flow Des	cription: Subm	erged, indetermina	ate	Previous Rainfall (hrs): 72+		
Illicit Discharg	ge Potential	: Unlikely			Submerg	ed in Water: Fully				
Notes:						inches:				
					Submerged					
Physical Indica	ators (Outfall	and Surroun	<u>ding Area)</u>			inches:		Photo Not Available		
Outfall Dama	ige	Corrosio	n 🗌 Peelin	ng Paint 🗌 S	Spalling/Cracking	g/Chipping		Submerged Outfall		
Deposits/Stai	ins	Oily	Paint	☐ Flow Lin	e Other:					
Pipe Benthic	Growth	Brown	Orange	Green	Other:					
Abnormal Ve	getation	Inhibited	Excessiv	/e				_Submerged.jpg		
Poor Pool Qu	uality	Odors	Colors	Oil Shee	en 🗌 Suds 🗌	Floatables				
		Excessiv	/e Algae	Other:						
Physical Indica	ators (In Flow	v, if outfall is i	flowing)							
Odor:			Sewage	Sulfide	Rancid/So	ur Petroleum	Otl	her:		
Floatables:			Sewage	Suds	Petroleum	Other:				
Color:			Clear	Brown	Green	Orange	Re			
Turbidity:						Gray	Otl	her:		
Sampling Resu	<u>ults</u>									
Sample Location	on: None									

## Outfall ID: 06-1028 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
☐ Field Follow-up Required
Damaged

Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,894.26 Easting: 2,347,979.27

# delle ados 1a:18

DSCN6795.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 122 ft SSE of outfall 06-1028. Intermediate area consists of open area and paved parking lot adjacent to wastewater treatment plant.

## **Location Map**



Inspection I	Date: 9/10/2	<b>2009</b> Insp	ector: JCW	/ Flow Des	scription:	Submer	ged, indete	erminate	Previo	us Rainfall (hr	rs): 72+
Illicit Discha	arge Potentia	l: Unlikely			Sı	ubmerged	in Water:	Fully			
Notes: Slig	ht sulfide odo	·.					inches:	16			
					Subm	erged in	Sediment:	-		個化工具	
Physical Ind	icators (Outfa	ll and Surroun	<u>ding Area)</u>				inches:	3			mes and
Outfall Dan	nage	Corrosio	on 🗌 Pee	eling Paint 🗌 S	Spalling/C	Cracking/C	Chipping				Tare
Deposits/S	tains	Oily	☐ Paint	☐ Flow Lin	e 🗌 O	her:				A A	
Pipe Benth	ic Growth	Brown	Orang	e Green	O	her:					09 10 2009 13 79
Abnormal V	Vegetation	Inhibited	d 🗌 Exces	sive						DSCN6796	5.JPG
Poor Pool	Quality	✓ Odors	☐ Colors	Oil Shee	en 🗌 Su	uds 🗸 F	Floatables				
		Excessi	ve Algae	Other:							
Physical Ind	icators (In Flo	w, if outfall is	flowing)								
Odor:			Sewag	e 🗌 Sulfide	Ran	cid/Sour	Petro	leum 🗌 O	ther:		
Floatables:			Sewag	e 🗌 Suds	Petr	oleum	Other	r:			
Color:			Clear	Brown	Gre	en	Orang	ge 🗌 Re	ed	Blue	Yellow
Turbidity:							Gray	O <sub>1</sub>	ther:		
Sampling Re	esults										
Sample Loca			То	tal Chlorine (field	d):	) ppm	Pheno	ol:	(	0 mg/L	
Sample ID:	09091	0-72		ee Chlorine (field	,	) ppm	Deterg	gents:		0 mg/L	
Time Collect			То	tal Copper (field)	):	) ppm					
11110 0011001	.00.		p⊦	I (field):	7.7	2 units	Temp	erature:	80	0 °F	

# Outfall ID: 06-1132

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,049.91 Easting: 2,336,592.95



DSCN6456.JPG



## **Location Map**



Inspection Date: 9/3/2	2009 Inspector: JCW	Flow De	escription: None		Previ	ous Rainfall (hrs)	: 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	in Water: No			J. 384)
Notes:				inches: 0			
			Submerged in				
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 0			
Outfall Damage	Corrosion Pee	ling Paint	Spalling/Cracking/C	Chipping			
Deposits/Stains	☐ Oily ☐ Paint	☐ Flow Li	ne 🗌 Other:		A STATE	12-	
Pipe Benthic Growth	☐ Brown ☐ Orang	e 🗌 Green	Other:		Page 1	The Lates	09.03.2009 14:08
Abnormal Vegetation	☐ Inhibited ☐ Excess	sive				DSCN6457.J	PG
Poor Pool Quality	Odors Colors Excessive Algae	Oil She	en 🗌 Suds 🔲 I	Floatables			
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewage	e Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	e Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 06-1136

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):
Material: RCP
Shape: Circular
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,052.43 Easting: 2,336,644.92



DSCN6459.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 06-1136 US1.

## Location Map



Inspection Date: 9/3/2	2009 Inspector: .	JCW Flow De	escription: Submer	ged, slight flow	Prev	vious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	I in Water: Partia	ally		Marie
Notes:				inches: 11			
			Submerged in	Sediment: Partia	ally		
Physical Indicators (Outfa	ll and Surrounding Are	<u>a)</u>		inches: 1			
Outfall Damage	Corrosion	Peeling Paint	Spalling/Cracking/0	Chipping	A		<b>*31</b>
Deposits/Stains	Oily Pa	aint 🔽 Flow Li	ne Dther:			-	
Pipe Benthic Growth	☐ Brown ☐ Or	ange 🗸 Green	Other:		100		09.03.2009 14:16
Abnormal Vegetation	☐ Inhibited ☐ Ex	cessive				DSCN6460.J	PG
Poor Pool Quality	Odors Co	olors Oil She	een Suds	Floatables			
Physical Indicators (In Flo		Guier.					
Odor: Faint		wage 🗸 Sulfide	☐ Rancid/Sour	Petroleum	Other:		
		_	Petroleum	Other:	Other.		
Floatables: None		<u> </u>					
Color: None	Cle	ar Brown	Green	☐ Orange ☐ Gray	Red Other:	Blue	Yellow
Turbidity: Cloudy				☐ Gray	Other.		
Sampling Results							
Sample Location: None							

## Outfall ID: 06-1136 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 736,043.61 Easting: 2,336,661.91



DSCN6462.JPG

#### Outfall Notes:

Upstream manhole located approx 19 ft ESE of outfall 06-1136. Intermediate area consists of rip-rap embankment.

## **Location Map**



Inspection	Date: 9/3/2	2009 Insp	ector: JCW	Flow Desc	cription:	Submer	ged, slight flow	Pi	revious Rainfall	(hrs): 72+	+
Illicit Disch	arge Potential	: Unlikely			Su	omerged	in Water: Part	ially		-	1
Notes:							inches: 10		1		
					Subme	erged in	Sediment: No				145
Physical Inc	licators (Outfal	l and Surroun	<u>ding Area)</u>				inches: 0	1			
Outfall Dar	mage	Corrosio	n 🗌 Peelir	ng Paint 🗌 S	palling/C	acking/C	Chipping				
Deposits/S	Stains	Oily	Paint	☐ Flow Line	e 🗌 Oth	ner:					200
Pipe Benth	nic Growth	Brown	Orange	Green	Oth	ner:			-	00.03.20	08 14:22
Abnormal	Vegetation	Inhibited	I Excessiv	ve					DSCN64	163.JPG	
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 F	loatables				
		Excessiv	ve Algae	Other:							
Physical Inc	<u>licators (In Flo</u> v	w, if outfall is	flowing)								
Odor:	None		Sewage	Sulfide	Rand	id/Sour	Petroleum	Other:			
Floatables:	None		Sewage	Suds	☐ Petro	leum	Other:				
Color:	None		Clear	Brown	Gree	n	Orange	Red	Blue	☐ Ye	llow
Turbidity:	None						Gray	Other:			
Sampling Re	esults										
Sample Loc			Tota	I Chlorine (field)	): 0	ppm	Phenol:		0 mg/L		
Sample ID:	09090	3-20	Free	Chlorine (field)	: 0	ppm	Detergents	:	0 mg/L		
Time Collect				l Copper (field):		ppm					
			pH (	field):	8.12	units	Temperatu	re:	71 °F		

## Outfall ID: 06-1477

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 3
Top Width (ft): 35
Bot. Width (ft): 15
Material: Rip-Rap

Shape: Trapezoid

Office Follow-up Required
Field Follow-up Required
Damaged
Grafitti
Significant Erosion

GPS Coordinates:
Northing: 737,303.76

Northing: 737,303.76 Easting: 2,336,989.19



DSCN6469.JPG

Outfall Notes: Rip-rap channel into stormwater pond.

## **Location Map**



Inspection Date: 9/3/20	009 Inspector: JCW	Flow De	scription: None		Previ	ious Rainfall (h	nrs): 72+
Illicit Discharge Potential:	Unlikely		Submerged	in Water: No	1		世帯の
Notes:				inches: 0			
			Submerged in			1.5	
Physical Indicators (Outfall	and Surrounding Area)			inches: 0	20		
Outfall Damage	Corrosion Pee	ling Paint	Spalling/Cracking/C	Chipping		A MAN	
Deposits/Stains	Oily Paint	Flow Lin	ne 🗌 Other:		No.	石、沿	
Pipe Benthic Growth	☐ Brown ☐ Orang	e 🗌 Green	Other:			1	(a) 57 200 154
Abnormal Vegetation	☐ Inhibited ☐ Exces	sive				DSCN647	0.JPG
Poor Pool Quality	Odors Colors Excessive Algae	☐ Oil She ☐ Other:	en 🗌 Suds 🔲 I	Floatables			
Physical Indicators (In Flow	v, if outfall is flowing)						
Odor:	☐ Sewage	e Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	e Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 06-1694

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 21
Height (in):
Width (in):
Material:

Shape: Circular

•

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,419.20 Easting: 2,346,803.83



DSCN6811.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 06-1694 US1. Pipe info from MS4 map.

## **Location Map**



Inspection Date: 9/10/2	2009 Inspector: JCW Flow Description: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	I: Unlikely Submerged in Water: Fully	
Notes:	inches:	
	Submerged in Sediment:	
Physical Indicators (Outfal	Il and Surrounding Area) inches:	Photo Not Available
Outfall Damage	☐ Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping	Submerged Outfall
Deposits/Stains	Oily Paint Flow Line Other:	
Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Abnormal Vegetation	☐ Inhibited ☐ Excessive	_Submerged.jpg
Poor Pool Quality	Odors Oil Sheen Suds Floatables	
	Excessive Algae Other:	
Physical Indicators (In Flor	w, if outfall is flowing)	
Odor:	Sewage Sulfide Rancid/Sour Petroleum Ott	ner:
Floatables:	Sewage Suds Petroleum Other:	
Color:	Clear Brown Green Orange Re	d Blue Yellow
Turbidity:	Gray Oth	ner:
Sampling Results		
Sample Location: None		

## Outfall ID: 06-1694 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 739,323.84 Easting: 2,346,856.08



DSCN6813.JPG

#### Outfall Notes:

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

## **Location Map**



Inspection I	Date: 9/10/	<b>2009</b> Insp	ector: JCW	Flow Desc	cription:	Submer	ged, indeter	rminate	Previou	ıs Rainfall (hı	rs): 72+
Illicit Discha	arge Potentia	al: Unlikely			Su	ıbmerged	in Water:	Fully	135	1 200	
Notes:							inches:	36		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					Subm	erged in	Sediment:			1	
Physical Ind	licators (Outfa	all and Surroun	ding Area)				inches:	0	J. J. J. J.	1	
Outfall Dar	mage	Corrosio	on 🗌 Peeli	ng Paint 🗌 S	palling/C	racking/C	Chipping			1	
Deposits/S	tains	Oily	Paint	Flow Line	e 🗌 Ot	her:			-11		
Pipe Benth	ic Growth	Brown	Orange	Green	Ot	her:					09.70 2022 75:00
Abnormal '	Vegetation	Inhibited	d 🗌 Excessi	ve						DSCN6814	.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Sı	ıds 🗌 F	loatables				
		Excessiv	ve Algae	Other:							
Physical Ind	licators (In Flo	ow, if outfall is	flowing)								
Odor:			Sewage	Sulfide	☐ Ran	cid/Sour	Petrol	eum 🗌 Ot	her:		
Floatables:			Sewage	Suds	☐ Petr	oleum	Other:	• •			
Color:			Clear	Brown	Gre	en	Orang	je 🗌 Re	ed	Blue	Yellow
Turbidity:							Gray	Ot	her:		
Sampling Re	esults										
Sample Loca			Tota	al Chlorine (field)	): (	) ppm	Pheno	l:	0	mg/L	
Sample ID:	0909	10-25	Free	Chlorine (field)		) ppm	Deterg	ents:		mg/L	
Time Collect	ted: 1503			al Copper (field):		) ppm					
			pH (	field):	7.5	7 units	Tempe	erature:	79	°F	

# Outfall ID: 06-1746

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 54
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

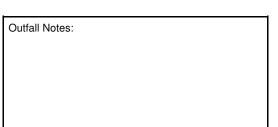
☐ Significant Erosion

#### GPS Coordinates:

Northing: 738,767.61 Easting: 2,339,329.23



DSCN6472.JPG



## **Location Map**



Inspection Date: 9/3/2	009 Inspector:	JCW Flow I	Description: None		Previo	ous Rainfall (hrs)	: 72+
Illicit Discharge Potential	: Unlikely		Submerged	I in Water: No	5- 13/1		2 11/1/11
Notes: Wet, no flow.				inches: 0			10000
			Submerged in	Sediment: No			****
Physical Indicators (Outfall	and Surrounding Ar	<u>rea)</u>		inches: 0	817		-
Outfall Damage	Corrosion	Peeling Paint	Spalling/Cracking/0	Chipping			
Deposits/Stains	Oily F	Paint	Line  Other:				
Pipe Benthic Growth	☐ Brown ☐ C	Orange 🗌 Gree	n Other:			P District	D8 08 2009 15:32
Abnormal Vegetation	☐ Inhibited ☐ E	Excessive				DSCN6473.JI	PG
Poor Pool Quality	Odors C	Colors Oil SI		Floatables			
Physical Indicators (In Flow	w, if outfall is flowing)	)					
Odor:		ewage 🗌 Sulfide	e Rancid/Sour	Petroleum	Other:		
Floatables:		ewage	Petroleum	Other:			
Color:	CI	lear Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 08-270

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,280.47 Easting: 2,355,763.46



DSCN6655.JPG

Outfall Notes:

Outfall fully submerged. Outfall screened upstream at 08-270 US1.

## **Location Map**



Inspection Date: 9/8/2	009 Insp	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ate Pr	evious Rainfall (hrs):	72+
Illicit Discharge Potential	: Unlikely			Submerged	l in Water: Fully			3
Notes:					inches: 37			and the state of t
				Submerged in				
Physical Indicators (Outfall	and Surroun	<u>ding Area)</u>			inches:			
Outfall Damage	Corrosio	on 🗌 Peelir	ng Paint 🔲 🤅	Spalling/Cracking/C	Chipping	15.6		The sa
Deposits/Stains	Oily	Paint	Flow Lir	ne Other:		- 20		
Pipe Benthic Growth	Brown	Orange	Green	Other:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 01 2000 14 48
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6656.JP	G
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessi	ve Algae	Other:					
Physical Indicators (In Flow	v, if outfall is	flowing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

## Outfall ID: 08-270 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 736,292.28 Easting: 2,355,796.29

# 09.08.2009 14:48

DSCN6657.JPG

#### Outfall Notes:

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

## **Location Map**



Inspection Date: 9/8/2009 Inspector:	JCW Flow Description: Submerged, indetermina	te Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: Fully	
Notes:	inches: 30	
	Submerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Are	a) inches: 0	
Outfall Damage	Peeling Paint	
Deposits/Stains ☐ Oily ☐ P	aint  Flow Line  Other:	
Pipe Benthic Growth Brown C	range Green Other:	PR-UB-2008 14:48
Abnormal Vegetation	ccessive	DSCN6658.JPG
Poor Pool Quality Odors C	olors Oil Sheen Suds Floatables	
Excessive Algae	Other:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Se	wage Sulfide Rancid/Sour Petroleum	Other:
Floatables: Se	wage Suds Petroleum Other:	
Color:	ear Brown Green Orange	Red Blue Yellow
Turbidity:	☐ Gray	Other:
Sampling Results		
Sample Location: Pool	Total Chlorine (field): 0 ppm Phenol:	0 mg/L
Sample ID: 090908-28	Free Chlorine (field): 0 ppm Detergents:	0 mg/L
Time Collected: 1500	Total Copper (field): 0 ppm	77.05
	pH (field): 8.26 units Temperatur	e: 77 °F

# Outfall ID: 09-32

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 12
Width (in): 19
Material: RCP
Shape: Elliptical
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 737,498.11 Easting: 2,351,270.17



DSCN6782.JPG

#### Outfall Notes:

Outfall not physically located - behind fence. GPS coordinates approximate. Outfall screened upstream at 09-32 US1. Pipe info from MS4 map.

## Location Map



Inspection Date: 9/10	/2009 Inspector: J	CW Flow De	escription:			Previous Rainfall (hrs): 72+		
Illicit Discharge Potenti	Illicit Discharge Potential: Submerged in Water:							
Notes:				inches: 0				
			Submerged in					
Physical Indicators (Outfa	all and Surrounding Area	<u>u)</u>		inches: 0		Photo Not Available		
Outfall Damage	Corrosion	Peeling Paint	Spalling/Cracking/C	Chipping		Submerged Outfall		
Deposits/Stains	Oily Pa	int	ne 🗌 Other:					
Pipe Benthic Growth	☐ Brown ☐ Ora	ange 🗌 Green	Other:					
Abnormal Vegetation	☐ Inhibited ☐ Exc	cessive				_Submerged.jpg		
Poor Pool Quality	Odors Co	lors	en 🗌 Suds 🔲 F	Floatables				
	Excessive Algae	Other:						
Physical Indicators (In Flo	ow, if outfall is flowing)							
Odor:	☐ Sev	vage Sulfide	☐ Rancid/Sour	Petroleum	Oth	er:		
Floatables:	☐ Sev	age 🗌 Suds	Petroleum	Other:				
Color:	Clea	ar 🗌 Brown	Green	Orange	Rec	Blue Yellow		
Turbidity:				☐ Gray	Oth	er:		
Sampling Results								
Sample Location: None	<b>:</b>							
·								

#### Outfall ID: 09-32 US1 **Location Map** NR 216 Classification: Major Outfall - Alternate Location Structure: Manhole March 342 08.10.2009 11:44 DSCN6783.JPG Office Follow-up Required ✓ Field Follow-up Required Outfall Notes: Damaged Upstream manhole located approx 69 ft S of outfall Grafitti 09-32. Inaccessable - paved over. No other ☐ Significant Erosion manhole outside building. **GPS Coordinates:** Northing: 737,429.63 Easting: 2,351,263.20 Inspection Date: 9/10/2009 Inspector: JCW Flow Description: Previous Rainfall (hrs): 72+ Submerged in Water: Illicit Discharge Potential: inches: 0 Notes: Submerged in Sediment: inches: 0 Photo Not Available Physical Indicators (Outfall and Surrounding Area) **Outfall Damage** ☐ Peeling Paint ☐ Spalling/Cracking/Chipping Corrosion Deposits/Stains Oily Paint Flow Line Other: **Pipe Benthic Growth** Brown Orange Green Other: **Abnormal Vegetation** ☐ Inhibited ☐ Excessive **Poor Pool Quality** Odors Colors Oil Sheen Suds Floatables Other: Excessive Algae Physical Indicators (In Flow, if outfall is flowing) Odor: Sewage Sulfide Rancid/Sour Petroleum Other: Floatables: Sewage Suds Petroleum Other: Color: Clear Brown Green Orange Red Blue Yellow Other: Gray **Turbidity:** Sampling Results Sample Location: None

# Outfall ID: 09-84

NR 216 Classification: Major Outfall

Structure: Closed Pipe Diameter (in): 24 Height (in): Width (in):

Material: VCP

Circular Shape:

Barrels: Single

Office Follow-up Required Field Follow-up Required

Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

737,461.78 Northing: Easting: 2,351,916.75



DSCN6770.JPG

#### Outfall Notes:

Outfall fully submerged under bridge and not physically located. GPS coordinates approximate.

Outfall screened upstream at 09-84 US1. Pipe info from MS4 map.

# **Location Map**



Inspection D	ate: 9/10/2	009 Inspe	ector: JCW	Flow Des	cription: Subme	rged, indetermina	te	Previous Rainfall (hrs): 72+		
Illicit Discharge Potential: Potential Submerged in Water: Fully										
Notes:						inches:				
					Submerged in					
Physical India	cators (Outfall	and Surroun	<u>ding Area)</u>			inches:		Photo Not Available		
Outfall Dam	age	Corrosio	n 🗌 Peelin	ng Paint 🗌 S	Spalling/Cracking/	Chipping		Submerged Outfall		
Deposits/St	ains	Oily	Paint	☐ Flow Lin	e 🗌 Other:					
Pipe Benthi	c Growth	Brown	Orange	Green	Other:					
Abnormal V	egetation	Inhibited	Excessiv	ve .				_Submerged.jpg		
Poor Pool G	Quality	Odors	Colors	Oil Shee	en 🗌 Suds 📗	Floatables				
		Excessiv	/e Algae	Other:						
Physical India	cators (In Flov	v, if outfall is i	flowing)							
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	her:		
Floatables:			Sewage	Suds	Petroleum	Other:				
Color:			Clear	Brown	Green	Orange	Re			
Turbidity:						Gray	Oth	her:		
Sampling Res	sults									
Sample Loca	tion: None									

## Outfall ID: 09-84 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required
Damaged

Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 737,384.24 Easting: 2,351,914.51

# 09.10 2009 10:78

DSCN6771.JPG

#### Outfall Notes:

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

## **Location Map**



Inspection I	Date: 9/10/2	<b>2009</b> Inspe	ector: JCW	Flow Descr	ription: Subm	erged, indetermin	ate Pre	vious Rainfall (hrs)	): 72+
Illicit Discha	arge Potentia	l: Potential			Submerge	ed in Water: Full	y		
Notes: Abn	ormal deterge	ent analysis res	sult (bubbles)			inches: 16			
					Submerged i	n Sediment: No			All San
Physical Ind	licators (Outfa	ll and Surround	ding Area)			inches: 0			
Outfall Dan	nage	Corrosio	n 🗌 Peeli	ng Paint 🗌 Sp	alling/Cracking	g/Chipping		-	
Deposits/S	tains	Oily	☐ Paint	☐ Flow Line	Other:			A LOS IN	
Pipe Benth	ic Growth	Brown	Orange	Green	Other:		7		09(10.2009-10-16
Abnormal '	Vegetation	Inhibited	Excess	ive				DSCN6772.J	PG
Poor Pool	Quality	Odors	☐ Colors	Oil Sheen	Suds	Floatables			
		Excessive	re Algae	Other:					
Physical Ind	licators (In Flo	w, if outfall is f	lowing)						
Odor:			Sewage	Sulfide [	Rancid/Sou	ır 🗌 Petroleum	Other:		
Floatables:			Sewage	Suds [	Petroleum	Other:			
Color:			Clear	Brown [	Green	Orange	Red	Blue	Yellow
Turbidity:						☐ Gray	Other:		
Sampling Re	esults								
Sample Loca	ation: Pool		Tota	al Chlorine (field):	0 ppm	Phenol:		0 mg/L	
Sample ID:	09091	0-21		e Chlorine (field):	0 ppm	Detergents	s:	0 mg/L	
Time Collect	ted: 1016			al Copper (field):	0 ppm	<b>-</b> .		70.05	
			рН	(field):	8.03 units	Temperatu	ire:	76 °F	

# Outfall ID: 09-101a

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in):
Width (in):
Material:
Shape:
Barrels:

✓ Office Follow-up Required

✓ Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 737,393.43 Easting: 2,350,733.37



DSCN6774.JPG

#### Outfall Notes:

Outfall not physically located - behind fence. May consist of three outfalls within one concrete box culvert. Outfall screened upstream at 09-101a US1.

## **Location Map**



Inspection I	Date: 9/10/20	009 Insp	ector: JCW	Flow Des	scription:			Previous Rainfall (hrs): 72+		
Illicit Discha	arge Potential:	Unlikely			Submerged					
Notes:						inches:				
Submerged in Sediment:										
Physical Ind	icators (Outfall	and Surroun	<u>ding Area)</u>			inches:		Photo Not Available		
Outfall Dan	nage	Corrosio	n Peelin	ng Paint 🔲 :	Spalling/Cracking/C	Chipping		Submerged Outfall		
Deposits/S	tains	Oily	Paint	☐ Flow Lin	ne  Other:					
Pipe Benth	ic Growth	Brown	Orange	Green	Other:					
Abnormal \	/egetation	Inhibited	Excessiv	/e				_Submerged.jpg		
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables				
		Excessiv	ve Algae	Algae Other:						
Physical Ind	icators (In Flow	ı, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	her:		
Floatables:			Sewage	Suds	Petroleum	Other:				
Color:			Clear	Brown	Green	Orange	Re	ed Blue Yellow		
Turbidity:						Gray	Oth	her:		
Sampling Re	Sampling Results									
Sample Location: None										

## Outfall ID: 09-101a US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

☐ Office Follow-up Required☐ Field Follow-up Required☐
<ul><li>☐ Damaged</li><li>☐ Grafitti</li><li>☐ Significant Erosion</li></ul>
GPS Coordinates:

Northing: 737,112.43 Easting: 2,350,659.13



DSCN6776.JPG

#### Outfall Notes:

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

## **Location Map**



Inspection Date: 9/10/2009 Insp	ector: JCW Flo	w Description: Subme	erged, indeterminate	Previous Rainfall (hrs)	: 72+
Illicit Discharge Potential: Unlikely		Submerge	d in Water: Fully	1/1	01 110
Notes:			inches: 22		
		Submerged in	Sediment: No		1
Physical Indicators (Outfall and Surrour	nding Area)		inches: 0	1111	A ROLL
Outfall Damage Corrosi	on Peeling Paint	Spalling/Cracking	Chipping	C. Call	
Deposits/Stains Oily	☐ Paint ☐ Flo	ow Line   Other:			
Pipe Benthic Growth Brown	Orange Gr	een		Profession of the second	09.10.2009-10:54
Abnormal Vegetation  Inhibited	d Excessive			DSCN6777.JF	PG
Poor Pool Quality Odors	Colors Oil	Sheen Suds	Floatables		
Excessi	ve Algae	her:			
Physical Indicators (In Flow, if outfall is	flowing)				
Odor:	Sewage Sul	fide Rancid/Sou	Petroleum O	Other:	
Floatables:	Sewage Suc	ds Petroleum	Other:		
Color:	☐ Clear ☐ Bro	wn 🗌 Green	Orange R	ted Blue	Yellow
Turbidity:			Gray O	Other:	
Sampling Results					
Sample Location: Pool	Total Chlorine	e (field): 0 ppm	Phenol:	0 mg/L	
Sample ID: 090910-67	Free Chlorine	· / / / / / / / / / / / / / / / / / / /	Detergents:	0 mg/L	
Time Collected: 1055	Total Copper		-	-	
Time Collected. 1000	pH (field):	8.19 units	Temperature:	74 °F	

# Outfall ID: 09-101b

NR 216 Classification: Major Outfall

Structure: Closed Pipe Diameter (in): Height (in): Width (in): Material: Shape: Barrels: ✓ Office Follow-up Required

✓ Field Follow-up Required

Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

737,393.24 Northing: Easting: 2,350,740.83



DSCN6774.JPG

Outfall Notes:

Outfall not physically located - behind fence. May consist of three outfalls within one concrete box culvert. Outfall screened upstream at 09-101b US1.

## **Location Map**



Inspection Date:	9/10/2009 Inspector: JCW	Flow Description:		Previous Rainfall (hrs): 72+					
Illicit Discharge Po	tential: Unlikely	Submerged i							
Notes:			inches:						
Submerged in Sediment:									
Physical Indicators	(Outfall and Surrounding Area)		inches:	Photo Not Available					
Outfall Damage	Corrosion Peeling F	Paint Spalling/Cracking/Ch	hipping	Submerged Outfall					
Deposits/Stains	Oily Paint	Flow Line Other:							
Pipe Benthic Grov	vth Brown Orange [	Green Other:							
Abnormal Vegeta	ion Inhibited Excessive			_Submerged.jpg					
Poor Pool Quality	Odors Colors	Oil Sheen Suds Fl							
	Excessive Algae	Other:							
Physical Indicators	(In Flow, if outfall is flowing)								
Odor:	Sewage	Sulfide Rancid/Sour	Petroleum Oth	ner:					
Floatables:	Sewage	Suds Petroleum	Other:						
Color:	Clear	Brown Green	Orange Re	d Blue Yellow					
Turbidity:			Gray Oth	ner:					
Sampling Results									
Sample Location:	None								

## Outfall ID: 09-101b US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

	Office Follow-up Required
Г	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 736,753.91 Easting: 2,350,622.50

# 08.10.2009 11:17

DSCN6779.JPG

## Outfall Notes:

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

## **Location Map**



Inspection Date: 9/10/2009 Inspector:	JCW Flow Description: Submerged, slight flow	Previous Rainfall (hrs): 72+							
Illicit Discharge Potential: Unlikely	Submerged in Water: Fu	lly							
Notes:	inches: 28								
	Submerged in Sediment: No								
Physical Indicators (Outfall and Surrounding Area) inches: 0									
Outfall Damage Corrosion	Peeling Paint Spalling/Cracking/Chipping								
Deposits/Stains ☐ Oily ☐ F	Paint Flow Line Other:	4.6							
Pipe Benthic Growth Brown C	Orange Green Other:	09 10 2009 11:17							
Abnormal Vegetation	xcessive	DSCN6780.JPG							
Poor Pool Quality Odors C	Colors Oil Sheen Suds Floatables								
☐ Excessive Alga	e Other:								
Physical Indicators (In Flow, if outfall is flowing)	).								
Odor: None Se	ewage   Sulfide   Rancid/Sour   Petroleur	m  Other:							
Floatables: None Se	ewage Suds Petroleum Other:								
Color: None C	lear Brown Green Orange	☐ Red ☐ Blue ☐ Yellow							
Turbidity: None	☐ Gray	Other:							
Sampling Results									
Sample Location: Flow	Total Chlorine (field): 0 ppm Phenol:	0 mg/L							
Sample ID: 090910-05	Free Chlorine (field): 0 ppm Detergen	s: 0 mg/L							
Time Collected: 1118	Total Copper (field): 0 ppm	70.95							
	pH (field): 8.21 units Temperat	ure: 78 °F							

# Outfall ID: 09-101c

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in):
Width (in):
Material:
Shape:
Barrels:

✓ Office Follow-up Required

✓ Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 737,393.04 Easting: 2,350,747.64



DSCN6774.JPG

#### Outfall Notes:

Outfall not physically located - behind fence. May consist of three outfalls within one concrete box culvert. Outfall screened upstream at 09-101c US1.

## **Location Map**



Inspection Date: 9/10/2009	Inspector: JCW	Flow Des	scription:			Previous Rainfall (hrs): 72+		
Illicit Discharge Potential: F	Potential		Submerged					
Notes:				inches:				
			Submerged in					
Physical Indicators (Outfall and	d Surrounding Area)			inches:		Photo Not Available		
Outfall Damage	Corrosion Peelin	g Paint 🗌 🥄	Spalling/Cracking/C	Chipping		Submerged Outfall		
Deposits/Stains	Oily Paint	☐ Flow Lin	e Other:					
Pipe Benthic Growth	Brown Orange	Green	Other:					
Abnormal Vegetation	Inhibited Excessiv	e				_Submerged.jpg		
Poor Pool Quality	Odors Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables				
	Excessive Algae	Other:						
Physical Indicators (In Flow, if	outfall is flowing)							
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ner:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:				
Color:	☐ Clear	Brown	Green	Orange	Red	d Blue Yellow		
Turbidity:				Gray	Oth	ner:		
Sampling Results								
Sample Location: None								

## Outfall ID: 09-101C US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

Significant Erosion

**GPS Coordinates:** 

Northing: 736,803.81 Easting: 2,350,634.45

# 09.11.2009.10:55

DSCN6890.JPG

## Outfall Notes:

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

## **Location Map**



Inspection Date: 9/11/2009 Inspecto	: JCW Flow Description	: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Potential	S	Submerged in Water: Fully	
Notes:		inches: 0	
	Subi	merged in Sediment: No	
Physical Indicators (Outfall and Surrounding	<u>Area)</u>	inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/	Cracking/Chipping	
Deposits/Stains Oily	Paint Flow Line C	Other:	
Pipe Benthic Growth Brown	Orange Green C	Other:	09 11 2009 10:55
Abnormal Vegetation Inhibited	Excessive		DSCN6891.JPG
Poor Pool Quality Odors	Colors Oil Sheen S	Suds 🗸 Floatables	
Excessive A	gae Other:		
Physical Indicators (In Flow, if outfall is flow	<u>ng)</u>		
Odor:	Sewage Sulfide Ra	ncid/Sour  Petroleum  Ot	ther:
Floatables:	Sewage Suds Pe	troleum  Other:	
Color:	Clear Brown Gr	een Orange Re	ed Blue Yellow
Turbidity:		Gray Of	ther:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090911-71	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1054	Total Copper (field):	0 ppm	7.4 00
	pH (field): 8.	13 units Temperature:	74 °F

# Outfall ID: 11-64

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 11
Width (in): 18
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,597.32 Easting: 2,358,638.57



DSCN6651.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 11-64 US1. Pipe info from MS4 map.

## **Location Map**



Inspection	Date: 9/8/2	009 Insp	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ate	Previous Rainfall (hr	s): 72+	
Illicit Discha	arge Potential	: Unlikely			Submerged	in Water: Fully				
Notes:						inches:				
					Submerged in					
Physical Ind	<u>licators (Outfall</u>	and Surrour	nding Area)	inches:				Photo Not Available		
Outfall Dar	mage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/C	Chipping		Submerged Outfall		
Deposits/S	stains	Oily	Paint	☐ Flow Lin	e Other:					
Pipe Benth	ic Growth	Brown	Orange	Green	Other:					
Abnormal	Vegetation	Inhibited	d Excessiv	/e				_Submerge	d.jpg	
Poor Pool	Quality	Odors Excessi	☐ Colors ve Algae	Oil Shee	en 🗌 Suds 🔲 F	Floatables				
Physical Ind	licators (In Flov	v, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ier:		
Floatables:			Sewage	Suds	Petroleum	Other:				
Color:			Clear	Brown	Green	Orange	Red	d Blue	Yellow	
Turbidity:						Gray	Oth	ier:		
Sampling Re	<u>esults</u>									
Sample Loca	ation: None									

## Outfall ID: 11-64 US1

#### NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

#### GPS Coordinates:

Northing: 739,608.72 Easting: 2,358,553.46



DSCN6652.JPG

#### Outfall Notes:

Upstream manhole located approx 86 ft W of outfall 11-64. Intermediate area consists of paved parking area near beach and boat launch.

## **Location Map**



Inspection Date: 9/8/2009 Inspector:	JCW Flow Description: Submerge	ed, indeterminate Pr	evious Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in	n Water: Fully	
Notes: Slight sulfide odor.		inches: 12	
	Submerged in S	ediment: Partially	
Physical Indicators (Outfall and Surrounding Are	<u>ea)</u>	inches: 5	
Outfall Damage	Peeling Paint Spalling/Cracking/Ch	ipping	
Deposits/Stains Oily P	aint		
Pipe Benthic Growth Brown C	range 🗌 Green 🗌 Other:		09 08 2009 14 27
Abnormal Vegetation	cessive		DSCN6653.JPG
Poor Pool Quality Odors C	olors	oatables	
Excessive Algae	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Se	wage Sulfide Rancid/Sour	Petroleum Other:	
Floatables: Se	wage Suds Petroleum	Other:	
Color:	ear 🗌 Brown 🗌 Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Other:	
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090908-11	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 1230	Total Copper (field): 0 ppm		
	pH (field): 7.61 units	Temperature:	77 °F

# Outfall ID: 11-173

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 741,479.86 Easting: 2,357,671.36



DSCN6628.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 11-173 US1. Pipe info from MS4 map.

## **Location Map**



Inspection	Date: 9/8/2	2009 Insp	ector: JCW	Flow Des	scription: Sub	merged, indetermina	ate	Previous Rainfall (hrs): 72+
Illicit Disch	arge Potential	: Potential			Subme	ged in Water: Fully	,	
Notes:						inches:		
					Submerge	d in Sediment:		
Physical Inc	licators (Outfal	l and Surroun	<u>ding Area)</u>			inches:		Photo Not Available
Outfall Dar	nage	Corrosio	n 🗌 Peelir	ng Paint 🔲 🤄	g Paint Spalling/Cracking/Chipping			Submerged Outfall
Deposits/S	itains	Oily	Paint	☐ Flow Lin	ne   Other:			
Pipe Benth	ic Growth	Brown	Orange	Green	Other:			
Abnormal	Vegetation	Inhibited	I Excessiv	ve				_Submerged.jpg
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds	Floatables		
		Excessiv	ve Algae	Other:				
Physical Inc	<u>licators (In Flo</u>	w, if outfall is	flowing)					
Odor:			Sewage	Sulfide	Rancid/S	our	Oth	ner:
Floatables:			Sewage	Suds	Petroleur	n Other:		
Color:			Clear	Brown	Green	Orange	Re	d Blue Yellow
Turbidity:						☐ Gray	Oth	ner:
Sampling Re	esults							
Sample Loc								

## Outfall ID: 11-173 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 741,468.24 Easting: 2,357,624.73 09.08.2009 13:11

DSCN6629.JPG

#### Outfall Notes:

Upstream manhole located approx 48 ft WSW of outfall 11-173. Intermediate area consists of open space in park.

## **Location Map**



Inspection Date: 9/8/2009 Inspector: JC	W Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Potential	Su	ubmerged in Water: Fully	
Notes: Abnormal detergent analysis result (bubble	es)	inches: 39	
	Subm	nerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Area)		inches: 0	
Outfall Damage	eeling Paint 🗌 Spalling/C	Cracking/Chipping	
Deposits/Stains Oily Pain	t Flow Line O	ther:	
Pipe Benthic Growth Brown Orar	nge 🗹 Green 🗌 O	ther:	63.6a.2003 1301
Abnormal Vegetation	essive		DSCN6630.JPG
Poor Pool Quality Odors Colo	ors 🗌 Oil Sheen 🗌 Su	uds Floatables	
Excessive Algae	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Sewa	age 🗌 Sulfide 🔲 Ran	cid/Sour	Other:
Floatables: Sewa	age 🗌 Suds 📗 Peti	roleum	
Color: Clear	Brown Gre	en 🗌 Orange 🔲 F	Red Blue Yellow
Turbidity:		Gray C	Other:
Sampling Results			
	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090908-22	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1315		0 ppm	
F	oH (field): 8.	4 units Temperature:	79 ℉

## Outfall ID: 11-244

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 27
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 741,057.69 Easting: 2,358,384.19



DSCN6644.JPG

Outfall Notes:

Outfall fully submerged. Outfall screened upstream at 11-244 US1.

## **Location Map**



Inspection Date: 9/8/20	009 Inspe	ctor: JCW	Flow Des	scription: Submer	ged, indetermina	ate Pre	vious Rainfall (hrs)	: 72+
Illicit Discharge Potential:	Unlikely			Submerged	l in Water: Fully	2	<b>以</b> 未犯。"	43.71
Notes: Pipe separation					inches: 27			A X
				Submerged in			7	Marie Contraction
Physical Indicators (Outfall	and Surround	<u>ling Area)</u>			inches:			
Outfall Damage	Corrosion	n 🗌 Peelir	ng Paint 🔲 🤅	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lin	ne   Other:		1/1		The state of the s
Pipe Benthic Growth	Brown	Orange	Green	Other:				09.08.2009
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6645.JI	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessiv	e Algae	Other:					
Physical Indicators (In Flow	, if outfall is fl	lowing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

## Outfall ID: 11-244 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

	Office Follow-up Required
Г	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 740,728.01 Easting: 2,358,455.29



DSCN6648.JPG

#### Outfall Notes:

Upstream manhole located approx 338 ft SSE of outfall 11-244. Intermediate area consists of open space in park.

## **Location Map**



Inspection Date: 9/8/2009	Inspector: JCW Flow	v Description: Submer	ged, indeterminate	Previous Rainfall (hrs):	72+
Illicit Discharge Potential: Unlil	cely	Submerged	in Water: Partially		1
Notes:			inches: 22		
		Submerged in	Sediment: No		
Physical Indicators (Outfall and Sur	rounding Area)		inches: 0		
Outfall Damage Cor	rosion Peeling Paint	Spalling/Cracking/0	Chipping		10
Deposits/Stains Oily	Paint  Flo	w Line   Other:			
Pipe Benthic Growth Bro	wn 🗌 Orange 🔲 Gre	een			9 05 2009 74:05
Abnormal Vegetation	bited Excessive			DSCN6649.JPC	3
Poor Pool Quality Od	ors Colors Oil	Sheen Suds	Floatables		
Exc	essive Algae	ner:			
Physical Indicators (In Flow, if outfa	all is flowing)				
Odor:	Sewage Sulf	ide Rancid/Sour	Petroleum Oth	er:	
Floatables:	Sewage Sud	s Petroleum	Other:		
Color:	Clear Brow	wn Green	Orange Rec	Blue	Yellow
Turbidity:			Gray Oth	er:	
Sampling Results					
Sample Location: Pool	Total Chlorine	(field): 0 ppm	Phenol:	0 mg/L	
Sample ID: 090908-05	Free Chlorine	` ,	Detergents:	0 mg/L	
Time Collected: 1410	Total Copper (		Tomporatura	77 OF	
	pH (field):	8.21 units	Temperature:	77 °F	

## Outfall ID: 11-376

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: CIP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

#### GPS Coordinates:

Northing: 743,691.94 Easting: 2,357,489.84



DSCN6620.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 11-376 US1. Pipe info from MS4 map.

## **Location Map**



Illicit Discharge Potential: Suspect  Notes:  Submerged in Water: Fully inches:  Submerged in Sediment:  Physical Indicators (Outfall and Surrounding Area)  Deposits/Stains  Oily Paint   Flow Line   Other:  Pipe Benthic Growth   Brown   Orange   Green   Other:  Abnormal Vegetation   Inhibited   Excessive Algae   Other:  Physical Indicators (In Flow, if outfall is flowing)  Odor:   Sewage   Sulfide   Rancid/Sour   Petroleum   Other:  Floatables:   Green   Other:  Physical Indicators (In Flow, if outfall is flowing)  Color:   Sewage   Suds   Petroleum   Other:  Color:   Green   Green   Orange   Red   Blue   Yellow  Turbidity:   Sampling Results  Sampling Results  Sampling Results  Sample Location: None	Inspection Date: 9/8/	2009 Inspector: JCW	Flow Description	: Submerged, indetermina	ate	Previous Rainfall (hrs): 72+
Submerged in Sediment: inches:  Physical Indicators (Outfall and Surrounding Area)  Outfall Damage	Illicit Discharge Potentia	al: Suspect	9	Submerged in Water: Fully		
Physical Indicators (Outfall and Surrounding Area)  Outfall Damage	Notes:			inches:		
Outfall Damage			Sub	ŭ		
Deposits/Stains	Physical Indicators (Outfa	ll and Surrounding Area)		inches:		<b>Photo Not Available</b>
Pipe Benthic Growth Brown Orange Green Other:  Abnormal Vegetation Inhibited ExcessiveSubmerged.jpg  Poor Pool Quality Odors Colors Oil Sheen Suds Floatables	Outfall Damage	Corrosion Peeli	ing Paint 🗌 Spalling,	Cracking/Chipping		Submerged Outfall
Abnormal Vegetation	Deposits/Stains	Oily Paint	☐ Flow Line ☐ 0	Other:		
Poor Pool Quality Odors Colors Oil Sheen Suds Floatables   Physical Indicators (In Flow, if outfall is flowing)   Odor: Sewage Sulfide Rancid/Sour Petroleum Other:   Floatables: Sewage Suds Petroleum Other:   Color: Clear Brown Green Orange Red Blue Yellow   Turbidity: Gray Other:	Pipe Benthic Growth	☐ Brown ☐ Orange	e Green 0	Other:		
Excessive Algae Other:  Physical Indicators (In Flow, if outfall is flowing)  Odor: Sewage Sulfide Rancid/Sour Petroleum Other:  Floatables: Sewage Suds Petroleum Other:  Color: Green Gray Other:  Sampling Results	<b>Abnormal Vegetation</b>	☐ Inhibited ☐ Excess	ive			_Submerged.jpg
Odor: Sewage Sulfide Rancid/Sour Petroleum Other:  Floatables: Sewage Suds Petroleum Other:  Color: Green Gray Other:  Sampling Results	Poor Pool Quality			Suds Floatables		
Floatables: Sewage Suds Petroleum Other:  Color: Clear Brown Green Orange Red Blue Yellow  Turbidity: Gray Other:	Physical Indicators (In Flo	w, if outfall is flowing)				
Color: Clear Brown Green Orange Red Blue Yellow Turbidity: Gray Other:	Odor:	☐ Sewage	Sulfide Ra	ncid/Sour Petroleum	Oth	er:
Turbidity: Gray Other:	Floatables:	☐ Sewage	Suds Pe	troleum Other:		
Sampling Results	Color:	☐ Clear	Brown Gr	een Orange	Red	d Blue Yellow
	Turbidity:			☐ Gray	Oth	er:
Sample Location: None	Sampling Results					
	Sample Location: None					

## Outfall ID: 11-376 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 743,686.63 Easting: 2,357,408.24



DSCN6621.JPG

#### Outfall Notes:

Upstream manhole located approx 82 ft W of outfall 11-376. Intermediate area consists of open space in park.

## **Location Map**



Inspection	Date: 9/8/2	009 Insp	ector: Jo	CW	Flow Des	cription:	Submer	ged, indete	erminat	e Pre	eviou	s Rainfall (hr	s): 72+
Illicit Disch	arge Potential	: Suspect				Su	bmerged	in Water:	Fully			77	THE Y
	normal deterge		sult (bubb	les).	Significant			inches:	81	-			1/1/
floa	ting debris in m	nanhole.				Subm	erged in	Sediment:		* 5			
Physical Inc	dicators (Outfall	and Surrour	nding Area	)				inches:	0	1	11		
Outfall Da	mage	Corrosio	on 🗌 F	Peelin	g Paint 🗌 S	Spalling/C	racking/0	Chipping		2			
Deposits/S	Stains	Oily	☐ Pai	nt	☐ Flow Line	e 🗌 Ot	her:						1
Pipe Bentl	nic Growth	Brown	Ora	ange	Green	Ot	her:						
Abnormal	Vegetation	Inhibited	d 🗌 Exc	essiv	ve .					Allen		DSCN6622	JPG
Poor Pool	Quality	Odors	Col	ors	Oil Shee	en 🗌 Su	ıds 🗸 l	loatables					
	Excessi				Other:								
Physical Inc	dicators (In Flov	v, if outfall is	flowing)										
Odor:			Sew	age	Sulfide	Ran	cid/Sour	Petro	oleum	Other:			
Floatables:			Sew	age	Suds	Petr	oleum	Othe	r:				
Color:			Clea	ar	Brown	Gre	en	Oran	ge	Red		Blue	Yellow
Turbidity:								☐ Gray		Other:			
Sampling R	esults												
Sample Loc				Total	Chlorine (field	d): (	) ppm	Pheno	ol:		0	mg/L	
Sample ID:	09090	R-04			Chlorine (field	,	) ppm		gents:			mg/L	
Time Collec				Total	Copper (field)	: (	) ppm						
Time Collec	1200			pH (fi	ield):	7.82	2 units	Temp	erature	:	76	°F	

## Outfall ID: 11-400

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

	Office Follow-up Required
$\Box$	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

#### **GPS Coordinates:**

Northing: 740,792.67 Easting: 2,357,741.93



DSCN6632.JPG

#### Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 11-400 US1.

## **Location Map**



Inspection Date: 9/8/2	2009 Inspector: JCW	Flow Description	on: Submerged,	, indeterminate	e Previ	ous Rainfall (hrs	): 72+
Illicit Discharge Potential	I: Unlikely		Submerged in V	Water: Partial	ly		
Notes:			ir	nches: 16			
		Sı	ubmerged in Sedi				
Physical Indicators (Outfall	l and Surrounding Area)		ir	nches: 0			
Outfall Damage	☐ Corrosion ☐ Peeli	ng Paint 🗌 Spallir	ng/Cracking/Chip	ping			
Deposits/Stains	Oily Paint	Flow Line	Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	<b>✓</b> Green	Other:				69.0a.2009 13:24
Abnormal Vegetation	☐ Inhibited ☐ Excess	ve				DSCN6633	IPG
Poor Pool Quality	Odors Colors Excessive Algae	Oil Sheen Other:	Suds Float	tables			
Physical Indicators (In Flow	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 11-400 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 740,771.74 Easting: 2,357,711.95

# 0B.08.3(0E.1877)

DSCN6635.JPG

#### Outfall Notes:

Upstream manhole located approx 37 ft SW of outfall 11-400. Intermediate area consists of open space in park.

## **Location Map**



Inspection Date: 9/8/2009 Inspector:	JCW Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+			
Illicit Discharge Potential: Unlikely Submerged in Water: Partially						
Notes: Slight green color in water.		inches: 22				
	Subm	nerged in Sediment: No inches: 0				
Physical Indicators (Outfall and Surrounding Ar						
Outfall Damage						
Deposits/Stains Oily F	aint Flow Line Of	ther:				
Pipe Benthic Growth Brown C	Orange 🗹 Green 🗌 Ot	ther:	09 08 2009 13 27			
Abnormal Vegetation	xcessive		DSCN6636.JPG			
Poor Pool Quality Odors	Colors Oil Sheen St	uds				
Excessive Alga	e Other:					
Physical Indicators (In Flow, if outfall is flowing,						
Odor: S	ewage 🗌 Sulfide 🔲 Ran	cid/Sour Petroleum O	ther:			
Floatables: So	ewage Suds Petr	roleum Other:				
Color:	ear Brown Gre	en 🗌 Orange 🔲 Re	ed Blue Yellow			
Turbidity:		Gray O	ther:			
Sampling Results						
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L			
Sample ID: 090908-10	` '	0 ppm Detergents:	0 mg/L			
Time Collected: 1330	, ,	0 ppm				
	pH (field): 8.48	8 units Temperature:	78 °F			

## Outfall ID: 11-465

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 743,142.29 Easting: 2,357,582.15



DSCN6624.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 11-465 US1. Pipe info from MS4 map.

## **Location Map**



Inspection	Date: 9/8/2	009 Insp	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ate	Previous Rainfall (hr	s): 72+	
Illicit Discha	arge Potential	: Suspect			Submerged	in Water: Fully				
Notes:						inches:				
					Submerged in					
Physical Indicators (Outfall and Surrounding Area)				inches:				Photo Not Available		
Outfall Dar	mage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/C	Chipping		Submerged (	Outfall	
Deposits/S	stains	Oily	☐ Paint	☐ Flow Lin	e Other:					
Pipe Benth	ic Growth	Brown	Orange	Green	Other:					
Abnormal	Vegetation	Inhibited	d Excessiv	/e				_Submerge	d.jpg	
Poor Pool	Quality	Odors Excessi	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables				
Physical Ind	licators (In Flov	v, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ier:		
Floatables:			Sewage	Suds	Petroleum	Other:				
Color:			Clear	Brown	Green	Orange	Rec	d Blue	Yellow	
Turbidity:						Gray	Oth	ier:		
Sampling Re	esults									
Sample Location: None										

## Outfall ID: 11-465 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
☐ Field Follow-up Required

□ Damaged□ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 743,141.58 Easting: 2,357,545.97



DSCN6625.JPG

#### Outfall Notes:

Upstream manhole located approx 36 ft W of outfall 11-465. Intermediate area consists of open space in park.

## **Location Map**



Inspection Date: 9/8/2009 Inspector: J	ICW Flow Description:	Submerged, indeterminate	Previous Rainfall (hrs): 72+						
Illicit Discharge Potential: Suspect Submerged in Water: Fully									
Notes: Significant floatables in manhole. Slight I	brown color to water.	inches: 59							
	Subm	nerged in Sediment: No	The state of the s						
Physical Indicators (Outfall and Surrounding Area	<u>a)</u>	inches: 0							
Outfall Damage	Peeling Paint	Cracking/Chipping	Mark Mark College						
Deposits/Stains Oily Pa	int  Flow Line  Ot	ther:	N. C.						
Pipe Benthic Growth Brown Or	ange Green Ot	ther:	02-95,2008 12-54						
Abnormal Vegetation	cessive		DSCN6626.JPG						
Poor Pool Quality Odors 🗸 Co	olors	uds 🗸 Floatables							
Excessive Algae	Other:								
Physical Indicators (In Flow, if outfall is flowing)									
Odor:	wage 🗌 Sulfide 🔲 Ran	ncid/Sour	ner:						
Floatables: Sev	vage   Suds   Petr	roleum   Other:							
Color:	ar Brown Gre	en Orange Re	d Blue Yellow						
Turbidity:		Gray Oth	ner:						
Sampling Results									
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L						
Sample ID: 090908-08	,	0 ppm Detergents:	0 mg/L						
Time Collected: 1300		0 ppm							
1000	pH (field): 8.	1 units Temperature:	77 °F						

# Outfall ID: 11-479 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 36
Width (in): 58

Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 740,010.87 Easting: 2,357,897.37



DSCN6638.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 11-479 US1.



Inspection Date: 9/8/2	2009 Inspe	ector: JCW	Flow De	scription: Submer	ged, indetermina	ate Prev	vious Rainfall (hrs)	: 72+	
Illicit Discharge Potential	: Unlikely			Submerged	in Water: Parti	ally			
Notes:					inches: 21				
				Submerged in	Sediment: No				
Physical Indicators (Outfall and Surrounding Area) inches: 0									
Outfall Damage	✓ Corrosio	n 🗌 Peelir	ng Paint 🔲	Spalling/Cracking/C	Chipping			4 3	
Deposits/Stains	Oily	☐ Paint	<b>✓</b> Flow Lir	ne Dther:					
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		12	• 1	(0.08 2000 18:42	
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6639.J	PG	
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables				
	Excessiv	e Algae	Other:						
Physical Indicators (In Flow	w, if outfall is f	<u>flowing)</u>							
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:			
Floatables:		Sewage	Suds	Petroleum	Other:				
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow	
Turbidity:					Gray	Other:			
Sampling Results									
Sample Location: None									

## Outfall ID: 11-479 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 739,964.32 Easting: 2,357,894.08



DSCN6641.JPG

#### Outfall Notes:

Upstream manhole located approx 47 ft S of outfall 11-479. Intermediate area consists of open space in park near zoo.

## **Location Map**



Inspection	Date: 9/8/2	2009 Insp	ector: JCW	Flow Desc	cription:	Submer	ged, indetermin	ate Pr	evious Rainfall	(hrs): 72+
Illicit Discha	arge Potentia	I: Unlikely			Su	bmerged	in Water: Part	ally		
Notes:							inches: 22			
					Subme	erged in	Sediment: No			
Physical Ind	licators (Outfal	l and Surroun	ding Area)				inches: 0	1		
Outfall Dar	nage	Corrosio	n 🗌 Peeli	ng Paint 🗌 S	palling/C	racking/C	Chipping	- 1	1	
Deposits/S	tains	Oily	☐ Paint	<b>✓</b> Flow Line	e 🗌 Oth	ner:		1	19	
Pipe Benth	ic Growth	Brown	Orange	Green	Oth	ner:		38.2		09 06-2009 13:45
Abnormal '	Vegetation	Inhibited	I 🗌 Excessi	ve				200274	DSCN66	642.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 F	Floatables			
		Excessiv	ve Algae	Other:						
Physical Ind	licators (In Flo	w, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rand	cid/Sour	Petroleum	Other:		
Floatables:			Sewage	Suds	Petro	oleum	Other:			
Color:			☐ Clear	Brown	Gree	en	Orange	Red	Blue	Yellow
Turbidity:							Gray	Other:		
Sampling Re	esults									
Sample Loca			Tota	al Chlorine (field)	): 0	ppm	Phenol:		0 mg/L	
Sample ID:	09090	8-25		Chlorine (field)	,	ppm	Detergents	:	0 mg/L	
Time Collect		- <del>-</del>	Tota	al Copper (field):		ppm				
	.55. 1500		pH (	field):	8.86	units	Temperatu	re:	78 °F	

## Outfall ID: 12-576

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 44
Width (in): 72
Material: CMP
Shape: Elliptical
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 746,524.74 Easting: 2,345,811.21



DSCN6673.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 12-576 US1. Pipe info from MS4 map.

## **Location Map**



Inspection	Date: 9/9/2	.009 Insp	ector: JCW	Flow Des	scription: Submer	rged, indetermina	ite	Previous Rainfall (hrs): 72+		
Illicit Discharge Potential: Suspect Submerged in Water: Fully										
Notes:						inches:				
Submerged in Sediment:										
Physical Ind	<u>licators (Outfal</u>	l and Surroun	<u>ding Area)</u>			inches:		Photo Not Available		
Outfall Dar	nage	Corrosio	n 🗌 Peelir	g Paint Spalling/Cracking/Chipping				Submerged Outfall		
Deposits/S	itains	Oily	Paint	☐ Flow Lin	e 🗌 Other:					
Pipe Benth	ic Growth	Brown	Orange	Green	Other:					
Abnormal	Vegetation	Inhibited	I Excessiv	/e				_Submerged.jpg		
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🗌	Floatables				
		Excessiv	ve Algae	Other:						
Physical Inc	<u>licators (In Flo</u>	w, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ner:		
Floatables:			Sewage	Suds	Petroleum	Other:				
Color:			Clear	Brown	Green	Orange	Re	d Blue Yellow		
Turbidity:						Gray	Oth	ner:		
Sampling Re	esults									
Sample Loc										

## Outfall ID: 12-576 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 746,545.48 Easting: 2,345,849.38



DSCN6674.JPG

#### Outfall Notes:

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

## **Location Map**



Inspection	Date: 9/9/	2009 Inspe	ector: JCW	Flow Desc	cription:	Submer	ged, indetermi	nate F	revious Rainfall (l	nrs): 72+
Illicit Disch	narge Potentia	al: Suspect			Su	bmerged	in Water: Ful	ly		
	normal deterge atables (bottles	ent analysis res	sult (bubbles	). Significant	0.1		inches: 68	7	1 / 1	
1100	atables (bottles	s) iii iiiaiiioic.			Subm	erged in S	Sediment: No		1000	The state of the s
Physical In	<u>dicators (Outfa</u>	all and Surroun	<u>ding Area)</u>				inches: 0			
Outfall Da	mage	Corrosic	on 🗌 Pee	ling Paint 🗌 S	palling/C	racking/C	Chipping			
Deposits/	Stains	Oily	Paint	Flow Line	e 🗌 Ot	her:		1		
Pipe Bent	hic Growth	Brown	Orang	e 🗌 Green	Ot	her:				9 06 2009 08:20
Abnormal	Vegetation	Inhibited	I Exces	sive					DSCN667	75.JPG
Poor Pool	l Quality	Odors	☐ Colors	Oil Sheer	n 🗌 Su	ds 🗌 F	loatables			
		Excessiv	ve Algae	Other:						
Physical In	dicators (In Flo	ow, if outfall is i	flowing)							
Odor:			Sewag	e Sulfide	Ran	cid/Sour	Petroleur	n 🗌 Other	:	
Floatables	:		Sewag	e 🗌 Suds	Petr	oleum	Other:			
Color:			Clear	Brown	Gree	en	Orange	Red	Blue	Yellow
Turbidity:							Gray	Other	:	
Sampling F	<u>Results</u>									
Sample Loc	cation: Pool		To	tal Chlorine (field)	): (	) ppm	Phenol:		0 mg/L	
Sample ID:	0909	09-12	Fre	ee Chlorine (field)	): (	) ppm	Detergent	s:	0 mg/L	
Time Collec	cted: 0820			tal Copper (field):		) ppm	_		_	
			рŀ	(field):	8.46	units	Temperat	ure:	69 °F	

## Outfall ID: 12-925

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 48
Height (in):
Width (in):
Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 750,399.18 Easting: 2,344,895.89



DSCN6304.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 12-925 US1.

# Location Map



Inspection Date: 9/2/20	009 Insp	ector: JCW	Flow Des	scription: Subme	rged, slight flow	Prev	vious Rainfall (hrs)	: 72+
Illicit Discharge Potential:	Unlikely			Submerge	d in Water: Parti	ially	1	600
Notes: Faint sulfide odor.					inches: 4			
				Submerged in	Sediment: No			
Physical Indicators (Outfall	and Surroun	<u>ding Area)</u>			inches: 0			
Outfall Damage	☐ Corrosio	on 🗌 Peelir	ng Paint 🔲 🥄	Spalling/Cracking/	Chipping	7		
Deposits/Stains	Oily	Paint	Flow Lin	ne   Other:				9000
Pipe Benthic Growth	<b>✓</b> Brown	Orange	✓ Green	Other:				09.01.2009 17:41
Abnormal Vegetation	Inhibited	Excessive	ve				DSCN6305.JF	PG
Poor Pool Quality	<b>✓</b> Odors	Colors	Oil Shee	en 🗌 Suds 🗌	Floatables			
	Excessi	ve Algae	Other:					
Physical Indicators (In Flow	v, if outfall 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: None								

## Outfall ID: 12-925 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 750,411.45 Easting: 2,345,137.49 08.01.2089\_17:58

DSCN6307.JPG

#### Outfall Notes:

Upstream manhole located approx 241 ft ENE of outfall 12-925. Intermediate area consists of open space and streets.

## **Location Map**



Inspection	Date: 9/2/2	009 Insp	ector: JCW	Flow Des	scription:	Moderate	)	Pre	vious Rainfall (	hrs): 72+
Illicit Disch	arge Potential	: Unlikely			Sub	merged i	in Water: No		X	
Notes:							inches: 0			
					Subme	rged in S	Sediment: No	16		4
Physical Indicators (Outfall and Surrounding Area) inches: 0										
Outfall Dar	nage	Corrosi	on Peeli	ng Paint 🗌 🤄	Spalling/Cra	acking/Cl	hipping			
Deposits/S	Stains	Oily	Paint	☐ Flow Lin	ne 🗌 Oth	er:				
Pipe Benth	nic Growth	Brown	Orange	Green	Oth	er:		- 60		09.01.2009 17:58
Abnormal	Vegetation	Inhibite	d 🗌 Excess	ive				-	DSCN63	08.JPG
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Sud	ls 🗌 Fl	loatables			
		Excessi	ve Algae	Other:						
Physical Inc	licators (In Flow	v, if outfall is	flowing)							
Odor:	None		Sewage	Sulfide	Ranci	id/Sour	Petroleum	Other:		
Floatables:	None		Sewage	Suds	Petro	leum	Other:			
Color:	None		Clear	Brown	Green	n	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Other:		
Sampling Re	esults									
Sample Loc			Tota	al Chlorine (field	d): 0	ppm	Phenol:		0 mg/L	
Sample ID:	090902	2-01	Free	e Chlorine (field	d): 0	ppm	Detergents	s:	0 mg/L	
Time Collect	ted: 1000			al Copper (field)	,	ppm	_			
			рН	(field):	8.18	units	Temperatu	ire:	69 °F	

## Outfall ID: 12-1328

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 753,040.78 Easting: 2,343,995.41



DSCN6300.JPG

Outfall Notes:

Size and shape not verified - half filled with sediment. Pipe info from MS4 map.



Inspection Date: 9/2/2	2009 Inspector: JCW	Flow De	scription: None		Prev	rious Rainfall (hı	rs): 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	I in Water: No			
Notes: Significant sedime	ent in pipe.			inches: 0			
			Submerged in	Sediment: Parti	ally		24
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 11			
Outfall Damage	Corrosion Peeli	ng Paint 🗌	Spalling/Cracking/C	Chipping	T		
Deposits/Stains	Oily Paint	☐ Flow Lir	ne Dther:		\$ 16		
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:				d 0 55005 37 51
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6301	.JPG
Poor Pool Quality	Odors Colors	Oil She	en 🗌 Suds 🔲 F	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	Sewage	Sulfide	☐ Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 12-1781

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 30
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 753,105.13 Easting: 2,347,588.82



DSCN6288.JPG

Outfall Notes:	_
Inlet to stormwater pond.	

## **Location Map**



Inspection Date: 9/2/2009	Inspector: JCW	Flow Desc	ription: None		Pre	evious Rainfall (hrs	): 72+
Illicit Discharge Potential: Unli	kely		Submerged	in Water: No	100		
Notes: Wet, no flow.				inches: 0			1
			Submerged in S	Sediment: Parti	ally		
Physical Indicators (Outfall and Su	rrounding Area)			inches: 1			
Outfall Damage Co	rrosion	ng Paint 🗌 Sp	oalling/Cracking/C	Chipping	1		
Deposits/Stains Oil	y 🗌 Paint	☐ Flow Line	Other:				
Pipe Benthic Growth ✓ Bro	own 🗌 Orange	Green	Other:			1	09.01.3009 18:14
Abnormal Vegetation Inh	ibited	ve				DSCN6289.J	IPG
	ors Colors	Oil Sheen	Suds 🗌 F	Floatables			
□ Ex	cessive Algae	Other:					
Physical Indicators (In Flow, if outf	all is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 12-1793

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

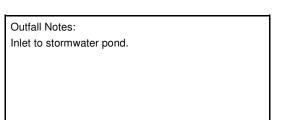
☐ Significant Erosion

GPS Coordinates:

Northing: 753,251.90 Easting: 2,347,929.36



DSCN6294.JPG



## **Location Map**



Inspection Date: 9/2/2	2009 Inspec	tor: JCW	Flow De	scription: None		Previ	ious Rainfall (hrs	s): 72+
Illicit Discharge Potentia	l: Unlikely			Submerged	in Water: No			1
Notes:					inches: 0			The state of the s
				Submerged in			25	1
Physical Indicators (Outfai	ll and Surroundir	ng Area)			inches: 0			SO COM
Outfall Damage	Corrosion	Peelin	ng Paint 🔲	Spalling/Cracking/C	Chipping	1		* 4
Deposits/Stains	Oily	Paint	Flow Lir	ne   Other:				177
Pipe Benthic Growth	Brown	Orange	Green	Other:				00-01-2000-16-37
Abnormal Vegetation	Inhibited	Excessiv	/e				DSCN6295.	JPG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	loatables			
	Excessive	Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flo	<u>wing)</u>						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

# Outfall ID: 12-1795

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

	Office Follow-up Required
$\Box$	Field Follow-up Required

□ Damaged□ Grafitti

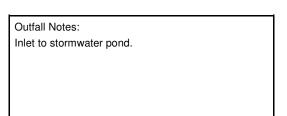
☐ Significant Erosion

GPS Coordinates:

Northing: 753,275.65 Easting: 2,348,037.10



DSCN6291.JPG



## **Location Map**



Inspection Date: 9/2/2	2009 Inspector: JCW	Flow Des	scription: None		Previ	ious Rainfall (hrs	): 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	in Water: No	5 M		
Notes:				inches: 0			
			Submerged in		55/10		
Physical Indicators (Outfal	l and Surrounding Area)			inches: 0			11
Outfall Damage	☐ Corrosion ☐ Peeli	ng Paint 🗌 🤄	Spalling/Cracking/C	Chipping	1		
Deposits/Stains	Oily Paint	☐ Flow Lin	e Other:				Fact Hill
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:				09.01.2009 18:28
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6292.	IPG
Poor Pool Quality	Odors Colors Excessive Algae	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
Physical Indicators (In Flor	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 13-101

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 36
Width (in): 58
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,526.37 Easting: 2,348,150.87



DSCN6488.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 13-101 US1. Pipe info from MS4 map.

## **Location Map**



Illicit Discharge Potential: Unlil Notes:  Physical Indicators (Outfall and Sur Outfall Damage Co Deposits/Stains Oily Pipe Benthic Growth Bro	rounding Area) rosion Peeling Paint	Submerged in Sed in Spalling/Cracking/Chip	nches: iment: nches:	Photo Not Available
Physical Indicators (Outfall and Sur  Outfall Damage	rosion Peeling Paint	Submerged in Sed in Spalling/Cracking/Chip	iment: nches:	
Outfall Damage Co	rosion Peeling Paint	il Spalling/Cracking/Chip	nches:	
Outfall Damage Co	rosion Peeling Paint	Spalling/Cracking/Chip		
Deposits/Stains Oil			ping	
• = •	Paint Flow		p9	Submerged Outfall
Pipe Benthic Growth Bro		Line  Other:		
	wn 🗌 Orange 🔲 Gree	n Other:		
Abnormal Vegetation	bited Excessive			_Submerged.jpg
Poor Pool Quality Od	ors Colors Oil Si essive Algae Othe		tables	
Physical Indicators (In Flow, if outfa	all is flowing)			
Odor:	Sewage Sulfide	e Rancid/Sour	Petroleum  Oth	ner:
Floatables:	Sewage Suds	Petroleum	Other:	
Color:	Clear Brown	Green	Orange Red	d Blue Yellow
Turbidity:			Gray Oth	ner:
Sampling Results				
Sample Location: None				

# Outfall ID: 13-101 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 734,545.94 Easting: 2,348,112.53



DSCN6489.JPG

#### Outfall Notes:

Upstream manhole located approx 43 ft NW of outfall 13-101. Intermediate area consists of open space in park.

# Location Map



Inspection Date: 9/4/2009 Inspec	ector: JCW	Flow Descrip	otion: Submer	ged, slight flow	Previous Rai	nfall (hrs): 72+
Illicit Discharge Potential: Unlikely			Submerged	in Water: Fully	75.00	
Notes:				inches: 45		1
			Submerged in			
Physical Indicators (Outfall and Surround	<u>ding Area)</u>			inches: 0	100	
Outfall Damage Corrosio	on Peeling	Paint   Spal	lling/Cracking/C	Chipping		
Deposits/Stains Oily	Paint	☐ Flow Line [	Other:		1	7.3/
Pipe Benthic Growth Brown	Orange	Green [	Other:			03 07,2009 08 33
Abnormal Vegetation  Inhibited	Excessive	•			DS	CN6490.JPG
Poor Pool Quality Odors	Colors	Oil Sheen	Suds F	Floatables		
Excessiv	ve Algae	Other:				
Physical Indicators (In Flow, if outfall is it	flowing)					
Odor: None	Sewage [	Sulfide	Rancid/Sour	Petroleum	Other:	
Floatables: None	Sewage [	Suds	Petroleum	Other:		
Color: None	Clear [	Brown	Green	Orange	Red B	lue Yellow
Turbidity: None				Gray	Other:	
Sampling Results						
Sample Location: Pool	Total C	Chlorine (field):	0 ppm	Phenol:	0 mg/L	
Sample ID: 090904-08		Chlorine (field):	0 ppm	Detergents:	0 mg/L	
Time Collected: 0835	Total C	Copper (field):	0 ppm			
2011001001	pH (fiel	eld):	8.24 units	Temperature:	67 °F	

# Outfall ID: 13-68 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 18
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

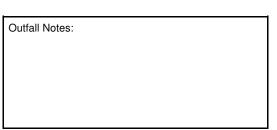
☐ Significant Erosion

**GPS Coordinates:** 

Northing: 729,783.56 Easting: 2,338,577.38



DSCN6412.JPG



## **Location Map**



Inspection Date: 9/3/2	2009 Inspector: JCW	Flow Descri	iption: None		Previou	ıs Rainfall (hrs):	: 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	in Water: No	3	2	
Notes: Wet, but no flow le	eaving pipe.			inches: 0		601	77
			Submerged in S	Sediment: Partia	ally	*	
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 1	TATION		125
Outfall Damage	Corrosion Peeli	ng Paint 🔲 Spa	alling/Cracking/C	hipping			
Deposits/Stains	Oily Daint	☐ Flow Line	Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:		1		Section to the
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6413.JF	PG
Poor Pool Quality	Odors Colors	Oil Sheen	Suds F	loatables			
	Excessive Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 13-337

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 40
Width (in): 65
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,427.74 Easting: 2,348,206.50



DSCN6492.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-337 US1. Pipe info from MS4 map.

## **Location Map**



Inspection Date: 9/4/2	<b>2009</b> Insp	ector: JCW	Flow Des	scription: Submer	ged, slight flow	Prev	ious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	ıl: Unlikely			Submerged	l in Water: Parti	ally		
Notes:					inches: 21			
				Submerged in	Sediment: No			
Physical Indicators (Outfa	ll and Surroun	<u>ding Area)</u>			inches: 0		7	
Outfall Damage	<b>✓</b> Corrosio	on 🗌 Peelir	ng Paint 🔲 :	Spalling/Cracking/0	Chipping		THE RES	4
Deposits/Stains	Oily	Paint	✓ Flow Lin	ne 🗌 Other:				
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:				09.04.2009 08:40
<b>Abnormal Vegetation</b>	Inhibited	Excessive	ve				DSCN6493.J	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲	Floatables			
	Excessi	ve Algae	Other:					
Physical Indicators (In Flo	w, if outfall 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: None								

## Outfall ID: 13-337 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 734,411.63 Easting: 2,348,194.63

# DO DE 2006 08:45

DSCN6496.JPG

#### Outfall Notes:

Upstream manhole located approx 20 ft SW of outfall 13-337. Intermediate area consists of open space in park.

## **Location Map**



Inspection Date: 9/4/2009 Inspector:	JCW Flow Description: Subme	erged, slight flow P	revious Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerge	ed in Water: Partially	
Notes:		inches: 28	
	Submerged in	n Sediment: No	
Physical Indicators (Outfall and Surrounding Ar	<u>ea)</u>	inches: 0	No.
Outfall Damage	Peeling Paint Spalling/Cracking	/Chipping	The state of the s
Deposits/Stains Oily F	aint Flow Line Other:		T.M.
Pipe Benthic Growth Brown	Orange Green Other:		09 04 2009 08 41
Abnormal Vegetation	xcessive		DSCN6497.JPG
Poor Pool Quality Odors 0	colors Oil Sheen Suds	Floatables	
Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing			
Odor: None S	ewage 🗌 Sulfide 🔲 Rancid/Sou	r Petroleum Other	:
Floatables: None	ewage Suds Petroleum	Other:	
Color: None C	ear 🗌 Brown 🗌 Green	Orange Red	Blue Yellow
Turbidity: None		Gray Other	:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090904-04	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 0845	Total Copper (field): 0 ppm	Tamananahuma	00 oF
	pH (field): 8.01 units	Temperature:	66 °F

#### Outfall ID: 13-471

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 48
Width (in): 76
Material: RCP

Shape: Elliptical

Barrels: Single

☐ Office Follow-up Required✓ Field Follow-up Required

DamagedGrafitti

Significant Erosion

### GPS Coordinates:

Northing: 736,093.24 Easting: 2,343,802.68



DSCN6502.JPG

#### Outfall Notes:

First upstream manhole buried under concrete sidewalk. Second upstream manhole buried under concrete street. Sample collected from pool by outfall. City may want to attempt to locate and access buried manholes.

## **Location Map**



Inspection	Date: 9/4/2	2009 Inspe	ector: JCW	Flow Desc	cription:	Submer	ged, slight flov	v P	revious Rainfall (h	nrs): 72+
Illicit Disch	arge Potentia	I: Unlikely			Su	bmerged	I in Water: Pa	rtially 🎆		CONTRACTOR OF
Notes:							inches: 38			
					Subm	erged in	Sediment: No		187	
Physical Inc	dicators (Outfal	l and Surroun	<u>ding Area)</u>				inches: 0		1	
Outfall Dar	mage	Corrosio	n 🗌 Peelir	ng Paint 🗌 S	palling/C	racking/C	Chipping	25-		
Deposits/S	Stains	Oily	Paint	Flow Line	e 🗌 Ot	her:				
Pipe Benth	nic Growth	Brown	Orange	✓ Green	Ot	her:		40	A. C.	09.04.2009 06:22
Abnormal	Vegetation	Inhibited	Excessi	ve					DSCN650	3.JPG
Poor Pool	Quality	Odors	☐ Colors	Oil Sheer	n 🗌 Su	ds 🗌 l	Floatables			
		Excessiv	/e Algae	Other:						
Physical Inc	dicators (In Flo	w, if outfall is t	flowing)							
Odor:	None		Sewage	Sulfide	Ran	cid/Sour	Petroleur	m Other	:	
Floatables:	None		Sewage	Suds	Petr	oleum	Other:			
Color:	None		Clear	Brown	Gree	en	Orange	Red	Blue	Yellow
Turbidity:	Slight Cloudin	ess					Gray	Other	:	
Sampling Re	<u>esults</u>									
Sample Loc	ation: Pool		Tota	l Chlorine (field)	): (	) ppm	Phenol:		0 mg/L	
Sample ID:	09090	4-05		Chlorine (field)		) ppm	Detergen	ts:	0 mg/L	
Time Collec	ted: 1000			l Copper (field):		) ppm	T		00 °E	
			pH (	field):	8.38	3 units	Temperat	ure:	66 °F	

## Outfall ID: 13-875

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 36
Width (in): 58
Material: CMP
Shape: Elliptical
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 733,409.72 Easting: 2,340,928.89



DSCN6475.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-875 US1.

## **Location Map**



Inspection Date: 9/3	/ <b>2009</b> Insp	ector: JCW	Flow Des	cription: Subme	rged, slight flow	Pre	vious Rainfall (hrs)	: 72+
Illicit Discharge Potenti	al: Unlikely			Submerged	d in Water: Parti	ally		
Notes:					inches: 14			AVANCE:
				Submerged in	Sediment: Parti	ally		THE WAY
Physical Indicators (Outfa	all and Surroun	ding Area)			inches: 4			
Outfall Damage	✓ Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/0	Chipping			THE !
Deposits/Stains	Oily	☐ Paint	☐ Flow Line	e Dther:			1/4/	
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:				08 08 2009/03-59
Abnormal Vegetation	Inhibited	d Excessiv	ve				DSCN6477.JI	PG
Poor Pool Quality	Odors	Colors	Oil Shee	n 🗌 Suds 🗌	Floatables			
	Excessi	ve Algae	Other:					
Physical Indicators (In Flo	ow, if outfall 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: Slight Cloudi	ness				Gray	Other:		
Sampling Results								
Sample Location: None	<b>)</b>							
,								

## Outfall ID: 13-875 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 733,401.23 Easting: 2,340,928.16

# 08 03.2009 18.01

DSCN6479.JPG

Outfall Notes:

Upstream manhole located approx 10 ft S of outfall 13-875. Intermediate area consists of open space.

## **Location Map**



Inspection Date: 9/3/2009 Inspector:	JCW Flow Description:	Submerged, slight flow	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Su	ubmerged in Water: Partially	1.5
Notes:		inches: 25	te
	Subm	nerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Ar	<u>rea)</u>	inches: 0	
Outfall Damage	Peeling Paint Spalling/C	Cracking/Chipping	
Deposits/Stains Oily F	Paint	ther:	
Pipe Benthic Growth Brown	Orange Green O	ther:	19 03 2009 16 01
Abnormal Vegetation	Excessive		DSCN6480.JPG
Poor Pool Quality Odors 0	Colors Oil Sheen St	uds	
Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing	<u>)</u>		
Odor: None S	ewage 🗌 Sulfide 🔲 Rar	ncid/Sour	ther:
Floatables: None	ewage   Suds   Pet	roleum   Other:	
Color: None C	lear 🗌 Brown 🗌 Gre	en Orange Re	ed Blue Yellow
Turbidity: Slight Cloudiness		Gray Ot	ther:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090903-24	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1600		0 ppm	
	pH (field): 8.	2 units Temperature:	73 °F

# Outfall ID: 13-948

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):
Material: RCP

Shape: Circular

Barrels: Single

· ·

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,212.86 Easting: 2,336,063.55



DSCN6442.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-948 US1.



Inspection Date: 9/3/2	2009 Insp	ector: JCW	Flow Des	scription: Subme	rged, significant t	flow Previo	ous Rainfall (hrs):	72+
Illicit Discharge Potentia	I: Unlikely			Submerged	d in Water: Parti	ally		2000
Notes:					inches: 2			1000
				Submerged in	Sediment: No			
Physical Indicators (Outfal	ll and Surroun	<u>ding Area)</u>			inches: 0			
Outfall Damage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/0	Chipping	1		
Deposits/Stains	Oily	Paint	☐ Flow Lin	ie 🗌 Other:				
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		7		eretory a s
Abnormal Vegetation	Inhibited	Excessive	ve				DSCN6443.JF	'G
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🗌	Floatables			
	Excessiv	ve Algae	Other:					
Physical Indicators (In Flor	w, if outfall 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: None								

#### Outfall ID: 13-948 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged ☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 734,148.96 Easting: 2,336,049.06



DSCN6445.JPG

#### Outfall Notes:

Upstream manhole located approx 66 ft SSW of outfall 13-948. Intermediate area consists of street, sidewalk and rip-rap embankment.

#### **Location Map**



#### Inspection Date: 9/3/2009 Inspector: JCW Flow Description: Substantial Previous Rainfall (hrs): Submerged in Water: No Illicit Discharge Potential: Unlikely inches: 0 Notes: Submerged in Sediment: No inches: 0 Physical Indicators (Outfall and Surrounding Area) **Outfall Damage** Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping Deposits/Stains Oily Paint Flow Line Other: **Pipe Benthic Growth** Brown Orange Green Other: DSCN6446.JPG **Abnormal Vegetation** ☐ Inhibited ☐ Excessive **Poor Pool Quality** Odors Colors Oil Sheen Suds Floatables Excessive Algae Other: Physical Indicators (In Flow, if outfall 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 Other: Gray Turbidity: None Sampling Results Sample Location: Total Chlorine (field): Phenol: 0 mg/L Flow 0 ppm Free Chlorine (field): 0 ppm Detergents: 0 mg/L Sample ID: 090903-37L Total Copper (field): 0 ppm Time Collected: 1315 pH (field): 7.65 units Temperature: 73 °F

## Outfall ID: 13-1098

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 729,215.85 Easting: 2,338,595.93



DSCN6425.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-1098 US1.

## **Location Map**



Inspection Date: 9/3/2	2009 Inspector:	JCW	Flow Desc	cription: Submer	ged, indetermina	ate Previo	ous Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Unlikely			Submerged	in Water: Parti	ally		
Notes:					inches: 23			*
				Submerged in S	Sediment: Parti	ally		
Physical Indicators (Outfai	ll and Surrounding A	<u>rea)</u>			inches: 18			
Outfall Damage	Corrosion [	Peeling P	Paint 🗌 S <sub>l</sub>	palling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint [	Flow Line	e Other:				
Pipe Benthic Growth	Brown	Orange [	Green	Other:			No.	09. 13.2009 10: 17
Abnormal Vegetation	Inhibited	Excessive					DSCN6427.JI	PG
Poor Pool Quality		Colors	Oil Sheer	n 🗌 Suds 🔲 F	loatables			
	Excessive Alg	ae [	Other:					
Physical Indicators (In Flo	w, if outfall is flowing	<u>1)</u>						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear _	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

## Outfall ID: 13-1098 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 729,112.87 Easting: 2,338,595.52



DSCN6852.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 103 ft S of outfall 13-1098. Intermediate area consists of driveway to industrial facility.

## **Location Map**



Inspection Date: 9/3/2009 Inspector:	JCW Flow Description: Subm	erged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerg	ed in Water: Partially	
Notes:		inches: 13	
	Submerged	in Sediment: No	
Physical Indicators (Outfall and Surrounding Are	<u>ea)</u>	inches: 0	
Outfall Damage	Peeling Paint Spalling/Cracking	g/Chipping	
Deposits/Stains ☐ Oily ☐ P	aint  Flow Line  Other:		
Pipe Benthic Growth Brown C	range Green Other:		d) 11 2230 (d) 164)
Abnormal Vegetation  Inhibited  E	xcessive		DSCN6853.JPG
Poor Pool Quality Odors O	olors	Floatables	
Excessive Algae	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Se	ewage Sulfide Rancid/Son	ur Petroleum Othe	er:
Floatables: Se	ewage Suds Petroleum	Other:	
Color:	ear 🗌 Brown 🗌 Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Othe	er:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090903-35	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 1052	Total Copper (field): 0 ppm	Tanananahana	70.05
	pH (field): 7.09 units	Temperature:	70 °F

## Outfall ID: 13-1174

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 36
Width (in): 58
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up Required
Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 729,197.52 Easting: 2,338,526.73



DSCN6419.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-1174 US1. Pipe info from MS4 map.

## **Location Map**



Inspection Date: 9/3/2	009 Inspec	tor: JCW	Flow Des	scription: Submer	ged, indetermina	ate Prev	ious Rainfall (hrs):	72+
Illicit Discharge Potential	: Unlikely			Submerged	in Water: Part	ially	To Park	
Notes:				Submorgad in	Sediment: Part	ially		The state of the s
Physical Indicators (Outfall	l and Surroundi	ng Area)		Submerged in	inches: 7	lally		1
Outfall Damage	Corrosion	Peelin	ng Paint 🔲 S	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lin	ne Other:				
Pipe Benthic Growth	Brown	Orange	Green	Other:		45	\A	00, 05, 2010 10-75
Abnormal Vegetation	Inhibited	Excessiv	/e			60% A 11	DSCN6420.JF	PG
Poor Pool Quality	☐ Odors ☐ Excessive	Colors Algae	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
Physical Indicators (In Flow	v, if outfall is flo	owing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

## Outfall ID: 13-1174 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

	Office Follow-up Required
Г	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 729,091.08 Easting: 2,338,493.30

# 00.11.2009

DSCN6849.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 112 ft SSW of outfall 13-1174. Intermediate area consists of driveway to industrial facility.

## **Location Map**



Inspection I	Date: 9/3/2	009 Insp	ector: .	JCW	Flow Des	cription:	Submer	ged, indete	erminat	e Pre	vious	Rainfall (hrs):	72+
Illicit Discha	arge Potential	: Unlikely				Su	bmerged	I in Water:	Partia	lly		1 /	11/1/30
Notes:								inches:	25			1 //	111111111111111111111111111111111111111
						Subm	erged in	Sediment:				1	S. I
Physical Indicators (Outfall and Surrounding Area)								inches:	0			0	The same of
Outfall Dan	nage	Corrosio	n 🗌	Peelin	g Paint 🗌 S	palling/C	racking/C	Chipping		*			
Deposits/S	tains	Oily	☐ Pa	aint	☐ Flow Line	e 🗌 Ot	her:			D		1 1/1/1	-81
Pipe Benth	ic Growth	Brown	Or	range	Green	Ot	her:				_	13	09 11 2009 09 78
Abnormal '	Vegetation	Inhibited	d 🗌 Ex	cessive	Э							DSCN6850.JP	G
Poor Pool	Quality	Odors	□ Cc	olors	Oil Shee	n 🗌 Su	ds 🗌 F	Floatables					
		Excessiv	ve Algae		Other:								
Physical Ind	licators (In Flov	v, if outfall is	flowing)										
Odor:			Sev	wage	Sulfide	Ran	cid/Sour	Petro	leum	Other:			
Floatables:			Sev	wage	Suds	Petr	oleum	Othe	r:				
Color:			Cle	ear	Brown	Gree	en	Oran	ge	Red		Blue	Yellow
Turbidity:								Gray		Other:			
Sampling Re	esults												
Sample Loca	ation: Pool			Total	Chlorine (field	): (	) ppm	Pheno	ol:		0 r	mg/L	
Sample ID:	090903	3-40		Free (	Chlorine (field)	): (	) ppm	Deter	gents:		0 r	mg/L	
Time Collect	ted: 1026				Copper (field)		) ppm	_				_	
				pH (fi	eld):	8.04	units	Temp	erature	):	69 '	°F	

## Outfall ID: 13-1219

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 48
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,288.31 Easting: 2,342,397.02



DSCN6507.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-1219 US1.

# 13-1219 18-1219 US1

**Location Map** 

Inspection Date: 9/4/200	9 Inspector: JCV	V Flow De	scription: Submer	ged, no flow	Prev	ious Rainfall (hrs)	: 72+
Illicit Discharge Potential:	Unlikely		Submerged	I in Water: Parti	ally		
Notes:				inches: 7			
			Submerged in				
Physical Indicators (Outfall ar	nd Surrounding Area)			inches: 0		16	
Outfall Damage	Corrosion Pe	eling Paint	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily Paint	Flow Lir	ne 🗌 Other:				
Pipe Benthic Growth	Brown Orang	ge 🗸 Green	Other:		-	n de la	08.04.2008 10.42
Abnormal Vegetation	Inhibited Exces	ssive				DSCN6508.JI	PG
Poor Pool Quality	Odors Color	oil She	en 🗌 Suds 🔲 I	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flow, i	if outfall is flowing)						
Odor:	☐ Sewag	e Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewag	e Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 13-1219 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,185.50 Easting: 2,342,303.65

# Op : 04 : 2009: 10 : 53

DSCN6510.JPG

#### Outfall Notes:

Upstream manhole located approx 139 ft SW of outfall 13-1219. Intermediate area consists of paved commercial parking lot.

## **Location Map**



Inspection	Date: 9/4/2	2009 Inspe	ector: JCW	Flow Des	cription:	Submer	ged, slight flow	Pre	vious Rainfall (hrs):	72+
Illicit Disch	arge Potentia	I: Unlikely			Su	bmerged	in Water: No			Pile.
Notes:							inches: 0			
					Subm	erged in	Sediment: No		45%	-
Physical Inc	dicators (Outfa				inches: 0		# No.	185		
Outfall Dai	mage	Corrosio	n 🗌 Peeli	ng Paint 🗌 S	palling/C	racking/C	Chipping	16		
Deposits/S	Stains	Oily	Paint	☐ Flow Line	e 🗌 Ot	her:				
Pipe Benth	nic Growth	Brown	Orange	Green	Ot	her:				9 04 2009 10 53
Abnormal	Vegetation	Inhibited	I Excess	ive					DSCN6511.JP	G
Poor Pool	Quality	Odors	Colors	Oil Shee	n 🗌 Su	ds 🗌 F	Floatables			
		Excessiv	ve Algae	Other:						
Physical Inc	dicators (In Flo	w, if outfall is i	flowing)							
Odor:	None		Sewage	Sulfide	Ran	cid/Sour	Petroleum	Other:		
Floatables:	None		Sewage	Suds	Petr	oleum	Other:			
Color:	None		Clear	Brown	Gree	∍n	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Other:		
Sampling R	<u>esults</u>									
Sample Loc	ation: Pool		Tota	al Chlorine (field	): (	) ppm	Phenol:		0 mg/L	
Sample ID:	09090	14-27		e Chlorine (field)		) ppm	Detergents	:	0 mg/L	
Time Collec	ted: 1055			al Copper (field):		) ppm	_			
			pH (	(field):	8.26	3 units	Temperatu	re:	67 °F	

## Outfall ID: 13-1242

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 734,471.85 Easting: 2,348,158.34



DSCN6488.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 13-1242 US1. Pipe info from MS4 map.

## **Location Map**



Inspection	Date: 9/4/2	009 Insp	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ate	Previous Rainfall (hr	s): 72+
Illicit Discha	arge Potential	: Unlikely			Submerged	in Water: Fully			
Notes:						inches:			
					Submerged in	Sediment: inches:			
Physical Ind	<u>licators (Outfall</u>	and Surrour	ding Area)				Photo Not Available		
Outfall Damage			on 🗌 Peelir	ng Paint 🗌 S		Submerged Outfall			
Deposits/S	stains	Oily	☐ Paint	☐ Flow Lin	e Other:				
Pipe Benth	ic Growth	Brown	Orange	Green	Other:				
Abnormal	Vegetation	Inhibited	d Excessiv	/e				_Submerge	d.jpg
Poor Pool	Quality	Odors Excessi	☐ Colors ve Algae	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
Physical Ind	licators (In Flov	v, if outfall is	flowing)						
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ier:	
Floatables:			Sewage	Suds	Petroleum	Other:			
Color:			Clear	Brown	Green	Orange	Rec	d Blue	Yellow
Turbidity:						Gray	Oth	ier:	
Sampling Re	esults								
Sample Loca	ation: None								

## Outfall ID: 13-1242 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required
Damaged
Grafitti
Significant Erosion
GPS Coordinates:

Northing: 734,381.37 Easting: 2,348,028.77

# 09.04.2009 08:49

DSCN6499.JPG

#### Outfall Notes:

Upstream manhole located approx 158 ft SW of outfall 13-1242. Intermediate area consists of open space in park and street right-of-way.

## **Location Map**



Inspection	Date: 9/4/2	2009 Insp	ector: JCW	Flow Desc	cription:	Submer	ged, indetermina	ate Pre	vious Rainfall (h	rs): 72+
Illicit Discha	arge Potentia	I: Unlikely			Sul	omerged	in Water: Fully	1	600	
Notes:							inches: 60		14	
					Subme	erged in S	Sediment: No			
Physical Ind	licators (Outfai	l and Surroun	ding Area)				inches: 0			
Outfall Dar	nage	Corrosio	on 🗌 Peeli	eling Paint Spalling/Cracking/Chipping						
Deposits/S	tains	Oily	Paint	Flow Line	e 🗌 Oth	ner:				
Pipe Benth	ic Growth	Brown	Orange	Green	Oth	ner:			1	09-04.2009 08:49
Abnormal '	Vegetation	Inhibited	Excess	ive					DSCN650	0.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 F	loatables			
		Excessiv	ve Algae	Other:						
Physical Ind	licators (In Flo	w, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rand	id/Sour	Petroleum	Other:		
Floatables:			Sewage	Suds	Petro	oleum	Other:			
Color:			Clear	Brown	Gree	n	Orange	Red	Blue	Yellow
Turbidity:							Gray	Other:		
Sampling Re	esults									
Sample Loca	ation: Pool		Tota	al Chlorine (field)	): 0	ppm	Phenol:		0 mg/L	
Sample ID:	09090	4-12	Free	e Chlorine (field)	: 0	ppm	Detergents		0 mg/L	
Time Collect	ted: 0850			al Copper (field):		ppm	T		07.05	
			рн (	(field):	7.54	units	Temperatur	e:	67 °F	

## Outfall ID: 13-1283

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 40
Width (in): 65
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up Required

Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 729,206.57 Easting: 2,338,516.81



DSCN6416.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-1283 US1. Pipe info from MS4 map.

## **Location Map**



Inspection Date: 9/3/2	2009 Inspe	ector: JCW	Flow De:	scription: Subme	rged, indetermin	ate Previous	Rainfall (hrs):	72+
Illicit Discharge Potentia	l: Unlikely			Submerged	d in Water: Part	ially	1 Her	
Notes:					inches: 33		A MAL	
				Submerged in	Sediment: Part	ially	181	
Physical Indicators (Outfai	ll and Surround	<u>ding Area)</u>			inches: 17		/ II/	
Outfall Damage	Corrosio	n 🗌 Peelir	ng Paint 🔲 🤅	Spalling/Cracking/	Chipping		- V	N X Z S
Deposits/Stains	Oily	☐ Paint	☐ Flow Lin	ne   Other:				V O
Pipe Benthic Growth	Brown	Orange	Green	Other:		1		A 10 12 70 04
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6417.JPC	3
Poor Pool Quality	Odors	☐ Colors	Oil Shee	en 🗌 Suds 📗	Floatables			
	Excessiv	e Algae	Other:					
Physical Indicators (In Flo	w, if outfall is f	lowing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

## Outfall ID: 13-1283 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure:	Inlet

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 729,173.10 Easting: 2,338,491.28

# 09.03.200P t0:21

DSCN6422.JPG

#### Outfall Notes:

Upstream manhole(inlet) located approx 112 ft SSW of outfall 13-1283. Intermediate area consists of street right-of-way.

## **Location Map**



Inspection	Date: 9/3/2	2009 Insp	ector: JCW	Flow Des	cription:	Submer	ged, indetermina	ate Pre	evious Rainfall (hrs)	): 72+
Illicit Discha	arge Potentia	l: Unlikely			Sul	omerged	I in Water: Parti	ally	10000	
Notes:							inches: 21	-		
					Subme	erged in	Sediment: No			
Physical Ind	licators (Outfal	l and Surrour	nding Area)				inches: 0			135
Outfall Dar	nage	Corrosi	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cr	acking/0	Chipping	41		
Deposits/S	tains	Oily	Paint	Flow Line	e 🗌 Oth	ner:				
Pipe Benth	ic Growth	Brown	Orange	Green	Oth	ner:				69.03.2009.10:21
Abnormal '	Vegetation	Inhibite	d Excessiv	/e					DSCN6423.J	PG
Poor Pool	Quality	Odors	Colors	Oil Shee	n 🗌 Sud	ds 🔲 I	Floatables			
		Excessi	ve Algae	Other:						
Physical Ind	licators (In Flo	w, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rand	id/Sour	Petroleum	Other:		
Floatables:			Sewage	Suds	☐ Petro	leum	Other:			
Color:			☐ Clear	Brown	Gree	n	Orange	Red	Blue	Yellow
Turbidity:							Gray	Other:		
Sampling Re	esults									
Sample Loca	ation: Pool		Tota	Chlorine (field	l): 0	ppm	Phenol:		0 mg/L	
Sample ID:	09090	3-32		Chlorine (field		ppm	Detergents	:	0 mg/L	
Time Collect	ted: 1019			Copper (field)		ppm	T		00.05	
			pH (1	field):	7.32	units	Temperatur	e:	69 °F	

## Outfall ID: 13-1554

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

✓ Damaged

☐ Grafitti
☐ Significant Erosion

GPS Coordinates:

Northing: 732,696.42 Easting: 2,341,596.52



DSCN6513.JPG

Outfall Notes:
Apron separated from pipe.

## **Location Map**



Inspection Date: 9/4/2	2009 Inspector: JCW	Flow De	scription: None		Prev	ious Rainfall (hrs	): 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	I in Water: No	- A		
Notes:				inches: 0			17/18
			Submerged in			PAGE 1	
Physical Indicators (Outfal	ll and Surrounding Area)			inches: 0			
Outfall Damage	Corrosion Peeli	ng Paint	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily Paint	<b>✓</b> Flow Lir	ne 🗌 Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:				09.04.2009 11:09
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6514.	IPG
Poor Pool Quality	Odors Colors Excessive Algae	Oil She	en 🗌 Suds 🔲 I	Floatables			
Physical Indicators (In Flor	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 13-2332

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 33
Width (in): 60
Material: RCP
Shape: Elliptical
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 732,482.27 Easting: 2,334,774.61



DSCN6436.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-2332 US1.

# **Location Map**



Inspection Date: 9/3/2	2009 Inspe	ector: JCW	Flow De	scription: Submer	ged, slight flow	Pre	vious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Unlikely			Submerged	I in Water: Parti	ally		1323
Notes:					inches: 15		No.	
				Submerged in	Sediment: Parti	ally		
Physical Indicators (Outfai	ll and Surroun	<u>ding Area)</u>			inches: 8	-		
Outfall Damage	Corrosio	n 🗌 Peelir	ng Paint 🗌	Spalling/Cracking/C	Chipping			1 10
Deposits/Stains	Oily	Paint	☐ Flow Lir	ne 🗌 Other:		. 4		A NOW!
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		96		09.03.2009 12:47
Abnormal Vegetation	Inhibited	Excessiv	/e				DSCN6437.J	PG
Poor Pool Quality	Odors	Colors	Oil She	en 🗌 Suds 🔲 I	Floatables			
	Excessive	e Algae	Other:					
Physical Indicators (In Flo	w, if outfall is t	flowing)						
Odor: Faint		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: None								

## Outfall ID: 13-2332 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

Office Follow-up Required
Field Follow-up Required

□ Damaged□ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 732,452.74 Easting: 2,334,771.01



DSCN6439.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 30 ft S of outfall 13-2332. Intermediate area consists of open space.

## **Location Map**



Inspection I	Date: 9/3/2	009 Inspe	ector: JCW	Flow Desc	cription:	Submer	ged, slight flow	Pre	evious Rainfall (h	rs): 72+
Illicit Discha	arge Potential	: Unlikely			Sul	omerged	in Water: Part	ially		
Notes:							inches: 9		570	
					Subme	erged in	Sediment: No			
Physical Ind	licators (Outfal	and Surroun	<u>ding Area)</u>				inches: 0			
Outfall Dan	nage	Corrosio	n 🗌 Peelir	ng Paint 🗌 S	palling/Ci	acking/C	Chipping			
Deposits/S	tains	Oily	Paint	☐ Flow Line	e 🗌 Oth	er:				1
Pipe Benth	ic Growth	Brown	Orange	Green	Oth	er:				99 63 2009 12 51
Abnormal '	Vegetation	Inhibited	I Excessiv	ve					DSCN6440	0.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 F	Floatables			
		Excessiv	ve Algae	Other:						
Physical Ind	<u>licators (In Flov</u>	v, if outfall is i	flowing)							
Odor:	None		Sewage	Sulfide	☐ Rand	id/Sour	Petroleum	Other:		
Floatables:	None		Sewage	Suds	Petro	leum	Other:			
Color:	None		Clear	Brown	Gree	n	Orange	Red	Blue	Yellow
Turbidity:	None						☐ Gray	Other:		
Sampling Re	esults									
Sample Loca	ation: Pool		Tota	I Chlorine (field)	): 0	ppm	Phenol:		0 mg/L	
Sample ID:	09090	3-25	Free	Chlorine (field)	: 0	ppm	Detergents	:	0 mg/L	
Time Collect	ted: 1250			Copper (field):		ppm	_		E	
			pH (1	field):	8.04	units	Temperatu	re:	71 °F	

## Outfall ID: 13-2613

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):
Material: RCP
Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 726,504.67 Easting: 2,338,670.70



DSCN6429.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-2613 US1.

## **Location Map**



Inspection Date: 9/3/2009 Inspector: JCW	Flow Description: Submer	ged, slight flow P	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged	in Water: Partially	
Notes: Thick layer of grass clippings in pipe and pool.		inches: 6	
	Submerged in	Sediment: No	The Williams
Physical Indicators (Outfall and Surrounding Area)		inches: 0	
Outfall Damage Corrosion Peelin	g Paint Spalling/Cracking/0	Chipping	
Deposits/Stains Oily Paint	Flow Line Other:		720.1
Pipe Benthic Growth Brown Orange	✓ Green		09.03.2000
Abnormal Vegetation	⁄e	_	DSCN6430.JPG
Poor Pool Quality Odors Colors	☐ Oil Sheen ☐ Suds 🗸	Floatables	
✓ Excessive Algae	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: None Sewage	☐ Sulfide ☐ Rancid/Sour	Petroleum Other	:
Floatables: None Sewage	Suds Detroleum	✓ Other: grass clipping	S
Color: None Clear	Brown Green	Orange Red	☐ Blue ☐ Yellow
Turbidity: None		Gray Other	:
Sampling Results			
	Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090903-28 Free	Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 1110	Copper (field): 0 ppm		22.45
pH (f	ield): 7.77 units	Temperature:	69 °F

## Outfall ID: 13-2613 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 726,380.35 Easting: 2,338,666.19



DSCN6855.JPG

#### Outfall Notes:

Upstream manhole located approx 124 ft S of outfall 13-2613. Intermediate area consists of state highway right-of-way.

## **Location Map**



Inspection Date: 9/3/2009 Inspector:	JCW Flow Description: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: Partially	
Notes:	inches: 7	-
	Submerged in Sediment: No	The second secon
Physical Indicators (Outfall and Surrounding Are	<u>ea)</u> inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/Cracking/Chipping	
Deposits/Stains Oily P	aint ✓ Flow Line ☐ Other:	
Pipe Benthic Growth Brown C	range Green Other:	09.11.2009 09:19
Abnormal Vegetation Inhibited E	xcessive	DSCN6856.JPG
Poor Pool Quality Odors O	olors Oil Sheen Suds Floatables	
Excessive Algae	e Other:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Se	wage Sulfide Rancid/Sour Petroleum Oth	er:
Floatables: Se	wage Suds Petroleum Other:	
Color:	ear 🗌 Brown 🗌 Green 🦳 Orange 🔲 Rec	d Blue Yellow
Turbidity:	Gray Oth	er:
Sampling Results		
Sample Location: Pool	Total Chlorine (field): 0 ppm Phenol:	0 mg/L
Sample ID: 090903-09	Free Chlorine (field): 0 ppm Detergents:	0 mg/L
Time Collected: 1120	Total Copper (field): 0 ppm	70.05
	pH (field): 7.87 units Temperature:	70 °F

# Outfall ID: 13-2736

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 1.5
Top Width (ft): 5
Bot. Width (ft): 0
Material: Earthen

Shape: Parabolic

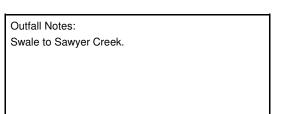
Office Follow-up Required
Field Follow-up Required
Damaged
☐ Grafitti
Significant Frosion

GPS Coordinates:

Northing: 735,786.87 Easting: 2,336,333.18



DSCN6466.JPG



### **Location Map**



Inspection Date: 9/3/2	009 Inspector:	JCW	Flow Desc	cription: None		Previo	ous Rainfall (hrs)	: 72+
Illicit Discharge Potential	: Unlikely			Submerged	in Water: No			- 51 PM
Notes:					inches: 0		6 4	
				Submerged in S			19 1 1 m	SEC.
Physical Indicators (Outfall	and Surrounding A	<u>rea)</u>			inches: 0			Yan .
Outfall Damage	Corrosion	Peeling F	Paint 🗌 S	palling/Cracking/C	hipping			
Deposits/Stains	Oily I	Paint [	Flow Line	e Other:		THO		
Pipe Benthic Growth	☐ Brown ☐ 0	Orange [	Green	Other:			0	69, 61, 2019, 73-61
Abnormal Vegetation	☐ Inhibited ☐ E	Excessive					DSCN6467.J	PG
Poor Pool Quality	Odors O	Colors [ ae [	Oil Sheer Other:	n 🗌 Suds 🔲 F	Floatables			
Physical Indicators (In Flow	v, if outfall is flowing	<u>)</u>						
Odor:	S	Sewage [	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	S	Sewage [	Suds	Petroleum	Other:			
Color:		Clear [	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					☐ Gray	Other:		
Sampling Results								
Sample Location: None								

## Outfall ID: 13-2822

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 6
Top Width (ft): 55
Bot. Width (ft): 25
Material: Grass

Shape: Trapezoid

- Office Follow-up RequiredField Follow-up Required
- DamagedGrafitti
- ☐ Significant Erosion

GPS Coordinates:

Northing: 727,837.42 Easting: 2,335,846.64



DSCN6409.JPG

### Outfall Notes:

Swale to stormwater pond. Channel dimensions estimated - attempt to verify from construction drawings.

### **Location Map**



Inspection Date: 9/3/2	009 Inspe	ctor: JCW	Flow De	scription: None		Previ	ous Rainfall (hrs	5): 72+
Illicit Discharge Potential	: Unlikely			Submerged	in Water: No			
Notes:					inches: 0			
				Submerged in				
Physical Indicators (Outfall	and Surround	<u>ling Area)</u>			inches: 0	WX	A COMPANY	
Outfall Damage	Corrosion	n 🗌 Peelir	ng Paint 🔲	Spalling/Cracking/C	Chipping	热		
Deposits/Stains	Oily	Paint	☐ Flow Lir	ne 🗌 Other:				XX
Pipe Benthic Growth	Brown	Orange	Green	Other:			100 代	
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6410.	JPG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
	Excessive	e Algae	Other:					
Physical Indicators (In Flow	v, if outfall is fl	<u>lowing)</u>						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

# Outfall ID: 13-2867

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 10
Top Width (ft): 40
Bot. Width (ft): 0
Material: Grass

Shape: Parabolic

- Office Follow-up RequiredField Follow-up Required
- DamagedGrafitti
- ☐ Significant Erosion

GPS Coordinates:

Northing: 726,427.22 Easting: 2,333,742.15



DSCN6402.JPG

### Outfall Notes:

Swale to stormwater pond. Channel dimensions estimated - attempt to verify from construction drawings.

### **Location Map**



Inspection Date: 9/3/2	2009 Inspector: JCV	V Flow De	escription: None		Previo	ous Rainfall (hrs	): 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	I in Water: No			<b>小人以</b>
Notes:				inches: 0		应大学	
			Submerged in		的机		
Physical Indicators (Outfal	ll and Surrounding Area)			inches: 0			
Outfall Damage	Corrosion Pe	eling Paint	Spalling/Cracking/C	Chipping			<b>放账</b> (人)
Deposits/Stains	Oily Daint	Flow Li	ne Dther:				
Pipe Benthic Growth	☐ Brown ☐ Orang	je 🗌 Green	Other:				
Abnormal Vegetation	☐ Inhibited ☐ Exces	sive				DSCN6403.J	PG
Poor Pool Quality	Odors Color	oil She	een 🗌 Suds 🔲 I	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flor	w, if outfall is flowing)						
Odor:	☐ Sewaç	e Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewag	e 🗌 Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 13-2872

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 12
Top Width (ft): 60
Bot. Width (ft): 0
Material: Grass

Shape: Parabolic

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 726,555.69 Easting: 2,334,312.73



DSCN6396.JPG

Outfall Notes:

Swale to stormwater pond. Channel dimensions estimated - attempt to verify from construction drawings.

### **Location Map**



Inspection Date: 9/3/2009 Inspector:	JCW Flow Description:	None	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Sul	omerged in Water: No	
Notes:		inches: 0	
	Subme	erged in Sediment: No	
Physical Indicators (Outfall and Surrounding A	<u>rea)</u>	inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/C	racking/Chipping	
Deposits/Stains Oily	Paint  Flow Line  Oth	ner:	
Pipe Benthic Growth Brown	Orange	ner:	and some feet
Abnormal Vegetation	Excessive		DSCN6397.JPG
Poor Pool Quality Odors	Colors Oil Sheen Su	ds Floatables	
Excessive Alg	e Other:		
Physical Indicators (In Flow, if outfall is flowing			
Odor:	• 1	cid/Sour Petroleum C	Other:
Floatables:	ewage Suds Petro	oleum Other:	
Color:	Clear Brown Gree		Red Blue Yellow
Turbidity:		☐ Gray ☐ C	Other:
Sampling Results			
Sample Location: None			

### Outfall ID: 13-2872 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure:	Closed Pipe
Diameter (i	n): 42
Height (in):	
Width (in):	
Material:	RCP
Shape:	Circular
Б	0' 1
Barrels:	Single
Office Foll	ow-up Required
Field Follo	w-up Required
Damaged	
Grafitti	
Significant	Erosion

726,403.37

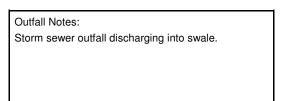
2,334,426.58

GPS Coordinates: Northing: 726,

Easting:



DSCN6399.JPG



# **Location Map**



Inspection Date: 9/3/2	2009 Inspector: Jo	W Flow Do	escription: None		Previo	ous Rainfall (hrs):	72+
Illicit Discharge Potentia	l: Unlikely		Submerged	in Water: No			
Notes:				inches: 0			
			Submerged in	Sediment: No		1	
Physical Indicators (Outfai	ll and Surrounding Area			inches: 0		2	Mary -
Outfall Damage	Corrosion F	eeling Paint 🗌	Spalling/Cracking/0	Chipping			
Deposits/Stains	Oily Dai	t 🔽 Flow L	ine   Other:			17.1	
Pipe Benthic Growth	☐ Brown ☐ Ora	nge 🗌 Green	Other:				8 08 2009 08:22
Abnormal Vegetation	☐ Inhibited ☐ Exc	essive				DSCN6400.JP	G
Poor Pool Quality	Odors Col	ors Oil She	een 🗌 Suds 🔲	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sew	age Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sew	ige 🗌 Suds	Petroleum	Other:			
Color:	☐ Clea	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

### Outfall ID: 13-2957

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 36
Width (in): 60
Material: RCP

Shape: Box

Office Follow-up Required

Single

Field Follow-up Required

DamagedGrafitti

Barrels:

☐ Significant Erosion

GPS Coordinates:

Northing: 734,524.41 Easting: 2,348,129.74



DSCN6482.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-2957 US1.

# Location Map



Inspection Date: 9/4/20	009 Inspe	ector: JCW	Flow De	scription: Submer	ged, slight flow	Prev	ious Rainfall (hrs	): 72+
Illicit Discharge Potential:	Unlikely			Submerged	in Water: No	6		
Notes:					inches: 16			
				Submerged in	Sediment: No	See See See		
Physical Indicators (Outfall a	and Surroun	<u>ding Area)</u>			inches: 0		The same of	
Outfall Damage	Corrosio	n 🗌 Peelir	ng Paint 🔲	Spalling/Cracking/C	Chipping			- '
Deposits/Stains	Oily	☐ Paint	✓ Flow Lir	ne Dther:		100		
Pipe Benthic Growth	<b>✓</b> Brown	Orange	Green	Other:		25		00.04.2000 00:00
Abnormal Vegetation	Inhibited	Excessiv	/e				DSCN6483.J	IPG
Poor Pool Quality	Odors Excessive	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
Physical Indicators (In Flow	, if outfall is t	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: None								

### Outfall ID: 13-2957 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
☐ Field Follow-up Required
☐ Damaged ☐ Grafitti
Grantii
Significant Erosion
GPS Coordinates:

Northing: 734,523.32 Easting: 2,348,072.92



DSCN6485.JPG

### Outfall Notes:

Upstream manhole located approx 57 ft W of outfall 13-2957. Intermediate area consists of open space in park.





Inspection	Date: 9/4/2	2009 Insp	ector: JCW	Flow Des	cription:	Submer	ged, slight flow	Pre	evious Rainfall (hr	rs): 72+
Illicit Disch	arge Potentia	I: Unlikely			Su	bmerged	l in Water: Fully			
Notes:							inches:	1		
					Subm	erged in	Sediment: No			1
Physical Inc	dicators (Outfa	ll and Surroun	ding Area)				inches: 0			
Outfall Da	mage	Corrosio	on 🗌 Peelii	ng Paint 🗌 S	Spalling/C	racking/C	Chipping			<b>5</b> . •
Deposits/S	Stains	Oily	☐ Paint	☐ Flow Lin	e 🗌 Ot	her:				
Pipe Bentl	nic Growth	Brown	Orange	Green	Ot	her:				09.04.2009 08:30
Abnormal	Vegetation	Inhibited	d 🗌 Excessi	ve					DSCN6486	S.JPG
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Su	ds 🗌 F	Floatables			
		Excessi	ve Algae	Other:						
Physical Inc	dicators (In Flo	w, if outfall is	flowing)							
Odor:	None		Sewage	Sulfide	Ran	cid/Sour	Petroleum	Other:		
Floatables:	None		Sewage	Suds	☐ Petr	oleum	Other:			
Color:	None		Clear	Brown	Gree	en	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Other:		
Sampling R	<u>esults</u>									
Sample Loc	ation: Pool		Tota	l Chlorine (field	d): C	) ppm	Phenol:		0 mg/L	
Sample ID:	09090	14-21	Free	Chlorine (field	): (	) ppm	Detergents	:	0 mg/L	
Time Collec	ted: 0820			l Copper (field)		) ppm	T		00.05	
			рН (	field):	8.1	units	Temperatu	re:	66 °F	

### Outfall ID: 13-3099

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 38
Width (in): 60
Material: RCP
Shape: Elliptical
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 735,366.53 Easting: 2,334,226.15



DSCN6448.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 13-3099 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/3/2	2009 Inspector: JCW	Flow Description:	Submerged, indetermina	te Previous Rainfall (hrs): 72+
Illicit Discharge Potentia	l: Potential	S	ubmerged in Water: Partic	ally
Notes: Sulfide odor, sligh	nt oil sheen in pool.		inches: 11	
		Subr	nerged in Sediment: No	
Physical Indicators (Outfa	ll and Surrounding Area)		inches: 0	
Outfall Damage	☐ Corrosion ☐ Pee	ling Paint   Spalling/0	Cracking/Chipping	
Deposits/Stains	Oily Paint	✓ Flow Line □ C	ther:	
Pipe Benthic Growth	☐ Brown ☐ Orange	e 🗹 Green 🗌 O	ther:	30 60 (200 to 11)
Abnormal Vegetation	☐ Inhibited ☐ Excess	sive		DSCN6451.JPG
Poor Pool Quality	✓ Odors ☐ Colors	✓ Oil Sheen ☐ S	uds Floatables	
	Excessive Algae	Other:		
Physical Indicators (In Flo	w, if outfall is flowing)			
Odor:	☐ Sewage	e 🗌 Sulfide 🔲 Rai	ncid/Sour	Other:
Floatables:	☐ Sewage	e 🗌 Suds 📗 Pet	roleum	
Color:	☐ Clear	☐ Brown ☐ Gre	en Orange	Red Blue Yellow
Turbidity:			☐ Gray	Other:
Sampling Results				
Sample Location: None				
·				

### Outfall ID: 13-3099 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 735,357.11 Easting: 2,334,173.31

# 09.03.2009 13:50

DSCN6453.JPG

### Outfall Notes:

Upstream manhole located approx 54 ft W of outfall 13-3099. Intermediate area consists of open space in park.

### **Location Map**



Inspection Date: 9/3/2009 Inspector:	JCW Flow Description: Su	ubmerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Potential	Subm	erged in Water: Partially	
Notes:		inches: 2	
	Submerg	ged in Sediment: No	
Physical Indicators (Outfall and Surrounding A	<u>ea)</u>	inches: 0	
Outfall Damage	Peeling Paint Spalling/Crac	cking/Chipping	
Deposits/Stains Oily	Paint	-	***
Pipe Benthic Growth Brown	Orange		ee 03 2009 13 50
Abnormal Vegetation	Excessive	_	DSCN6454.JPG
Poor Pool Quality Odors	Colors	Floatables	
Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing	1		
Odor:	ewage 🗌 Sulfide 🔲 Rancid	/Sour Petroleum Othe	r:
Floatables:	ewage	um Other:	
Color:	lear Brown Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Othe	r:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 p	pm Phenol:	0 mg/L
Sample ID: 090903-34L	Free Chlorine (field): 0 p	pm Detergents:	0 mg/L
Time Collected: 1347	Total Copper (field): 0 p	•	70.05
	pH (field): 7.43 u	nits Temperature:	73 °F

### Outfall ID: 13-3162

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 48
Width (in): 76
Material: RCP

Shape: Elliptical

Barrels: Single

- ✓ Office Follow-up Required
- ✓ Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 723,433.60 Easting: 2,338,932.88



DSCN6433.JPG

Outfall Notes:

Outfall partially submerged. Could not locate upstream manhole. Sample collected from pool.



Inspection Date: 9/3/2	009 Inspector:	JCW Flow Descrip	otion: Submer	ged, indeterminate	Previous Rainfall (hrs): 72+	
Illicit Discharge Potential	: Unlikely		Submerged	l in Water: Partially		Ì
Notes:				inches: 43	WAY A TO	
			Submerged in	Sediment: Partially		Ž.
Physical Indicators (Outfall	and Surrounding Are	<u>a)</u>		inches: 7		10
Outfall Damage	☐ Corrosion ☐	Peeling Paint	lling/Cracking/0	Chipping		0
Deposits/Stains	Oily Pa	aint	Other:			
Pipe Benthic Growth	☐ Brown ☐ O	range 🗌 Green	Other:		m/ Ne. 2009 12:08	
Abnormal Vegetation	☐ Inhibited ☐ Ex	ccessive		•	DSCN6434.JPG	
Poor Pool Quality	Odors Co	olors Oil Sheen	Suds I	Floatables		
	Excessive Algae	Other:				
Physical Indicators (In Flow	v, if outfall is flowing)					
Odor:	Se	wage Sulfide	] Rancid/Sour	Petroleum Oth	ner:	
Floatables:	Se	wage 🗌 Suds 🗀	Petroleum	Other:		
Color:	☐ Cle	ear Brown	Green	Orange Red	d Blue Yellow	
Turbidity:				Gray Oth	ner:	
Sampling Results						
Sample Location: Pool		Total Chlorine (field):	0 ppm	Phenol:	0 mg/L	
Sample ID: 090903	3-08L	Free Chlorine (field):	0 ppm	Detergents:	0 mg/L	
Time Collected: 1226		Total Copper (field):	0 ppm			
2333.00.		pH (field):	9.04 units	Temperature:	75 °F	

# Outfall ID: 13-3204

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 48
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 726,599.06 Easting: 2,333,364.46



DSCN6406.JPG

Outfall Notes: Outfall from Global Parkway storm sewer.

### **Location Map**



Inspection Date: 9/3/2	2009 Inspector: JCV	V Flow Des	cription: None		Previo	ous Rainfall (hrs):	72+
Illicit Discharge Potentia	l: Unlikely		Submerged	I in Water: No			23/A1/10
Notes:				inches: 0	3	11 319	
			Submerged in			Far 6	
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 0		The same	
Outfall Damage	Corrosion Pe	eling Paint 🗌 S	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily Paint	<b>✓</b> Flow Line	e Dther:				
Pipe Benthic Growth	☐ Brown ☐ Orang	je 🗌 Green	Other:			-	9.03.2009 08:58
Abnormal Vegetation	☐ Inhibited ☐ Exces	sive				DSCN6407.JP	G
Poor Pool Quality	Odors Color	oil Shee	n 🗌 Suds 🔲 I	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewaç	e Sulfide	☐ Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewag	e 🗌 Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

## Outfall ID: 14-188

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 42
Height (in):
Width (in):
Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 729,444.09 Easting: 2,353,729.97



DSCN6720.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 14-188 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/9/2009 Ins	spector: JCW	Flow De	scription: None		Previ	ious Rainfall (hrs)	: 72+
Illicit Discharge Potential: Unlikel	y		Submerged	I in Water: Parti	ally		7
Notes:				inches: 27			
			Submerged in	Sediment: No			
Physical Indicators (Outfall and Surro	unding Area)			inches: 0			
Outfall Damage Corro	sion	ng Paint 🗌	Spalling/Cracking/0	Chipping			
Deposits/Stains	☐ Paint	✓ Flow Lir	ne Dther:		16		
Pipe Benthic Growth Brown	Orange	✓ Green	Other:				00.00.2009 12:09
Abnormal Vegetation Inhibit	ed Excessiv	ve				DSCN6721.J	PG
Poor Pool Quality Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
<b>✓</b> Exces	sive Algae	Other:					
Physical Indicators (In Flow, if outfall	is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

### Outfall ID: 14-188 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 729,442.84 Easting: 2,353,705.40



DSCN6723.JPG

### Outfall Notes:

Upstream manhole located approx 25 ft W of outfall 14-188. Intermediate area consists of paved driveway to parking area.

### **Location Map**



Inspection Date: 9/9/2009 Inspector:	JCW Flow Description: 5	Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Sub	merged in Water: Partially	
Notes:		inches: 22	
	Subme	rged in Sediment: No	
Physical Indicators (Outfall and Surrounding Ar	<u>ea)</u>	inches: 0	
Outfall Damage Corrosion	Peeling Paint	acking/Chipping	
Deposits/Stains Oily F	aint	er:	
Pipe Benthic Growth Brown C	orange	er:	09 39 2009 12:13
Abnormal Vegetation  Inhibited  E	xcessive	_	DSCN6724.JPG
Poor Pool Quality Odors O	olors Oil Sheen Sud	s Floatables	
✓ Excessive Alga	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Se	ewage   Sulfide   Ranci	d/Sour Petroleum Othe	er:
Floatables: Se	ewage	leum	
Color:	ear 🗌 Brown 🗌 Greer	n Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Othe	er:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0	ppm Phenol:	0 mg/L
Sample ID: 090909-55	, ,	ppm Detergents:	0 mg/L
Time Collected: 1215	, ,	ppm Tamana watuwa	70.05
	pH (field): 8.68	units Temperature:	79 °F

# Outfall ID: 14-331

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):

Height (in): 31

Width (in): 50

Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 731,201.20 Easting: 2,353,781.76



DSCN6726.JPG

Outfall Notes:

Outfall almost fully submerged. Outfall screened upstream at 14-331 US1.



**Location Map** 

Inspection Date: 9/9/20	009 Inspector: JCW	Flow Description	n: Submerged, ir	ndeterminate	Previou	s Rainfall (hrs)	: 72+
Illicit Discharge Potential:	: Unlikely		Submerged in Wa	•			
Notes:			inc	hes: 30	The same of		
		Sub	merged in Sedim				
Physical Indicators (Outfall	and Surrounding Area)		inc	hes: 0			
Outfall Damage	Corrosion Peelin	ng Paint 🗌 Spalling	/Cracking/Chippir	ng			
Deposits/Stains	Oily Daint	☐ Flow Line ☐	Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:		42		09.09.2009 12:25
Abnormal Vegetation	☐ Inhibited ☐ Excessive	ve				DSCN6727.J	PG
Poor Pool Quality	Odors Colors	Oil Sheen	Suds 🗌 Floatal	bles			
	Excessive Algae	Other:					
Physical Indicators (In Flow	v, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide R	ancid/Sour 🗌 F	Petroleum	Other:		
Floatables:	☐ Sewage	Suds P	etroleum 🔲 0	Other:			
Color:	☐ Clear	☐ Brown ☐ G	reen 🗌 0	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 14-331 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 731,202.65 Easting: 2,353,752.32

# OS 71 2008 OB A2

DSCN6858.JPG

Outfall Notes:

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

### **Location Map**



Inspection Date: 9/9/2009 Inspector:	JCW Flow Description: Submerge	ed, indeterminate Pr	revious Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in	n Water: Partially	
Notes: Slight green color.		inches: 23	The state of the s
	Submerged in Se		
Physical Indicators (Outfall and Surrounding Ar	<u>ea)</u>	inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/Cracking/Ch	ipping	
Deposits/Stains ☐ Oily ☐ F	aint Flow Line Other:		
Pipe Benthic Growth Brown C	range Green Other:		09 11 2009 09 32
Abnormal Vegetation  Inhibited  E	xcessive		DSCN6859.JPG
Poor Pool Quality Odors C	olors Oil Sheen Suds Flo	oatables	
Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Se	ewage   Sulfide   Rancid/Sour	Petroleum Other:	
Floatables: Se	ewage 🗌 Suds 🔲 Petroleum	Other:	
Color:	ear 🗌 Brown 🗌 Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Other:	
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090909-53	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 1230	Total Copper (field): 0 ppm		
	pH (field): 8.96 units	Temperature:	80 °F

### Outfall ID: 14-400

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 36
Width (in): 58
Material: CMP
Shape: Elliptical

.

Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

Barrels:

☐ Significant Erosion

GPS Coordinates:

Northing: 732,768.38 Easting: 2,353,349.24



DSCN6729.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 14-400 US1.

# **Location Map**



Inspection Date: 9/9/2009 In	spector: JCW	Flow Description:	Submerged, indetermina	ate Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlike	у	Si	ubmerged in Water: Parti	ally
Notes:			inches: 14	
		Subn	nerged in Sediment: No	
Physical Indicators (Outfall and Surro	unding Area)		inches: 0	
Outfall Damage	sion	Paint Spalling/0	Cracking/Chipping	
Deposits/Stains Oily	☐ Paint	✓ Flow Line □ O	ther:	) III
Pipe Benthic Growth Brown	n 🗌 Orange [	✓ Green	ther:	00.00.2000 12.14
Abnormal Vegetation  Inhibi	ed Excessive			DSCN6730.JPG
Poor Pool Quality Odors	Colors [	Oil Sheen S	uds	
Exces	sive Algae [	Other:		
Physical Indicators (In Flow, if outfall	is flowing)			
Odor:	Sewage	Sulfide Rar	ncid/Sour Petroleum	Other:
Floatables:	Sewage	Suds Pet	roleum   Other:	
Color:	Clear	Brown Gre		Red Blue Yellow
Turbidity:			Gray	Other:
Sampling Results				
Sample Location: None				

### Outfall ID: 14-400 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 732,774.38 Easting: 2,353,311.53

# DO DO 200 TO 20

DSCN6732.JPG

### Outfall Notes:

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

### **Location Map**



Inspection D	Date: 9/9/2	2009 Inspe	ector: JCW	Flow Desc	cription:	Submer	ged, indetermi	nate Pr	evious	Rainfall (hrs):	72+
Illicit Discha	arge Potentia	l: Unlikely			Su	omerged	I in Water: Pa	rtially	PA		
Notes:							inches: 8				
					Subme	erged in	Sediment: No		1		
Physical Indi	icators (Outfal	l and Surround	ding Area)				inches: 0				dr.
Outfall Dam	nage	Corrosio	n Peelir	ng Paint 🗌 S	palling/C	acking/C	Chipping				6
Deposits/S	tains	Oily	☐ Paint	☐ Flow Line	e 🗌 Oth	ner:			1	at (3)	7
Pipe Benth	ic Growth	Brown	Orange	Green	Oth	ner:					9 09 2009 12 48
Abnormal \	egetation/	Inhibited	Excessiv	ve						DSCN6733.JP	G
Poor Pool (	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 l	Floatables				
		Excessiv	ve Algae	Other:							
Physical Indi	icators (In Flo	w, if outfall is t	flowing)								
Odor:			Sewage	Sulfide	Rand	id/Sour	Petroleur	n 🗌 Other:			
Floatables:			Sewage	Suds	Petro	leum	Other:				
Color:			Clear	Brown	Gree	n	Orange	Red	[	Blue	Yellow
Turbidity:							Gray	Other:			
Sampling Re	sults										
Sample Loca			Tota	I Chlorine (field)	): 0	ppm	Phenol:		0	mg/L	
Sample ID:	09090	9-58	Free	Chlorine (field)	: 0	ppm	Detergent	s:	0	mg/L	
Time Collect	ed: 1255			l Copper (field):		ppm	_			_	
			pH (	field):	8.88	units	Temperat	ure:	80	°F	

### Outfall ID: 14-595

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):

Height (in): 22

Width (in): 38

Material: RCP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 724,253.55 Easting: 2,351,497.72



DSCN6530.JPG

Outfall Notes:

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

### **Location Map**



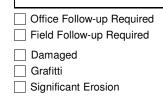
Inspection I	Date: 9/4	4/2009 Inspe	ector: JCW	Flow Desc	cription:	Submer	ged, indeterr	minate	Previo	us Rainfall (h	rs): 72+
Illicit Discha	arge Potent	ial: Potential			Su	bmerged	in Water: F	artially	0 /		
Notes:							inches: 7		A		
					Subm	erged in	Sediment: N		1		
Physical Ind	icators (Out	fall and Surroun	<u>ding Area)</u>				inches: 0				
Outfall Dan	nage	☐ Corrosio	n 🗌 Peelir	ng Paint 🗌 S	palling/C	racking/C	Chipping				
Deposits/S	tains	Oily	☐ Paint	☐ Flow Line	e 🗌 Otl	ner:		1	10		A COLUMN COLUMN
Pipe Benth	ic Growth	Brown	Orange	✓ Green	Otl	ner:					09.04.2009 13:12
Abnormal '	Vegetation	Inhibited	Excessi	ve						DSCN653	1.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 l	Floatables				
		Excessive Excessive	/e Algae	Other:							
Physical Ind	icators (In F	low, if outfall is t	flowing)								
Odor:			Sewage	Sulfide	Ran	cid/Sour	Petrole	um 🗌 Othe	er:		
Floatables:			Sewage	Suds	Petro	oleum	Other:				
Color:			Clear	Brown	Gree	en	Orange	Red		Blue	Yellow
Turbidity:							Gray	Othe	er:		
Sampling Re	esults										
Sample Loca		I	Tota	I Chlorine (field)	): C	ppm	Phenol:		C	) mg/L	
Sample ID:		904-03		Chlorine (field)		ppm	Deterge	nts:		) mg/L	
Time Collect			Tota	l Copper (field):	C	ppm					
30,1001	.00.	~	pH (	field):	7.57	units	Temper	ature:	71	°F	

### Outfall ID: 14-595 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole



GPS Coordinates:
Northing: 724,251.05
Easting: 2,350,848.34



DSCN6534.JPG

### Outfall Notes:

Upstream manhole located approx 649 ft W of outfall 14-595. Intermediate area consists of open space and fenced stormwater pond, with paved parking area to north.

### **Location Map**



Inspection Date: 9/4/2	2009 Inspector: JCW	Flow De	scription: None		Previ	ous Rainfall (hrs)	: 72+
Illicit Discharge Potential	I: Potential		Submerged	I in Water: No			
Notes: Wet, no flow. Sligh	nt oil sheen in pool in manh	ole.		inches: 0			
			Submerged in	Sediment: No inches: 0			
Physical Indicators (Outfall							
Outfall Damage	Corrosion Peel	ing Paint	Spalling/Cracking/0	Chipping		一、红地	
Deposits/Stains	Oily Paint	☐ Flow Lir	ne  Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:				09.04.2009 13:26
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6535.JF	PG
Poor Pool Quality	Odors Colors	✓ Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flow	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 14-635

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 722,630.34 Easting: 2,350,710.15



DSCN6527.JPG

Outfall Notes: 24 inch CMP discharges into west culvert.





Inspection Date: 9/4/20	009 Inspector: JC\	V Flow De	scription: None		Prev	ious Rainfall (hrs)	): 72+
Illicit Discharge Potential:	Unlikely		Submerged	I in Water: No	1 188		
Notes: Water standing in peeling.	pipe ribs - no flow. Black	lining of pipe		inches: 0	C. C. C.		A MILKE
Physical Indicators (Outfall	and Surrounding Area)		Submerged in	inches: 0			
Outfall Damage	☐ Corrosion ✓ Pe						
Deposits/Stains	Oily Paint	_	Spalling/Cracking/Cne	- 17 3			
Pipe Benthic Growth	☐ Brown ☐ Oran	ge 🗌 Green	Other:				09.04.2009 11:50
Abnormal Vegetation	☐ Inhibited ☐ Exces	ssive			W 101 . 101	DSCN6528.J	IPG
Poor Pool Quality	Odors Color Excessive Algae	s Oil She	en Suds I	Floatables			
Physical Indicators (In Flow		U Other.					
Odor:	Sewag	ge Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	Sewa	, _	Petroleum	Other:	Other.		
Color:	☐ Sewaç	☐ Brown	Green	Orange	Red	Blue	Yellow
Turbidity:	Clear	□ BIOWII	Green	Gray	Other:		reliow
Sampling Results							
Sample Location: None							

# Outfall ID: 14-644

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

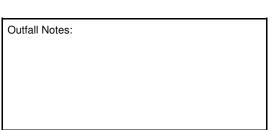
☐ Significant Erosion

GPS Coordinates:

Northing: 725,519.40 Easting: 2,352,093.27



DSCN6543.JPG



### **Location Map**



Inspection I	Date: 9/4/2	2009 Inspe	ector: JCW	Flow De	scription: None		Previo	us Rainfall (hrs):	72+
Illicit Discha	arge Potential	: Unlikely			Submerged	in Water: No	1880		
Notes:						inches: 0	100		
					Submerged in				
Physical Ind	icators (Outfall	l and Surroun	<u>ding Area)</u>			inches: 0			
Outfall Dan	nage	Corrosio	n 🗌 Peelin	ng Paint 🔲	Spalling/Cracking/C	Chipping			
Deposits/S	tains	Oily	Paint	Flow Lir	ne   Other:		2		
Pipe Benth	ic Growth	Brown	Orange	Green	Other:				09.04.2009 13:58
Abnormal \	/egetation	Inhibited	Excessiv	/e				DSCN6544.JF	PG
Poor Pool	Quality	Odors	Colors	Oil She	en 🗌 Suds 🔲 F	Floatables			
		Excessive	e Algae	Other:					
Physical Ind	icators (In Flov	w, if outfall is i	flowing)						
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:			Sewage	Suds	Petroleum	Other:			
Color:			Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:						Gray	Other:		
Sampling Re	esults								
Sample Loca									

# Outfall ID: 14-645

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 725,567.53 Easting: 2,352,164.72



DSCN6546.JPG



### **Location Map**



Inspection Date: 9/4/2	2009 Inspe	ector: JCW	Flow De	scription: None		Previ	ous Rainfall (hrs	): 72+
Illicit Discharge Potential	: Unlikely			Submerged	I in Water: No			
Notes: Wet, no flow.					inches: 0		AL TON	LA
				Submerged in			1 353	The state of the s
Physical Indicators (Outfall	l and Surround	<u>ding Area)</u>			inches: 0	-		
Outfall Damage	Corrosio	n 🗌 Peelir	ng Paint 🗸	Spalling/Cracking/0	Chipping			
Deposits/Stains	Oily	Paint	<b>✓</b> Flow Lir	ne 🗌 Other:		100		
Pipe Benthic Growth	Brown	Orange	Green	Other:				09.04.2009 14:04
Abnormal Vegetation	Inhibited	Excessive	ve				DSCN6547.	IPG
Poor Pool Quality	Odors	Colors	Oil She	en 🗌 Suds 🔲 I	Floatables			
	Excessiv	/e Algae	Other:					
Physical Indicators (In Flow	w, if outfall is t	flowing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

# Outfall ID: 14-659

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged ✓ Grafitti

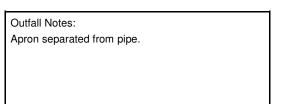
☐ Significant Erosion

GPS Coordinates:

Northing: 728,601.89 Easting: 2,352,109.94



DSCN6558.JPG



### **Location Map**



Inspection Date: 9/4/20	009 Inspector: JCW	Flow Desc	cription: None		Previo	ous Rainfall (hrs):	72+
Illicit Discharge Potential:	Unlikely		Submerged	in Water: No	700		1
Notes: Apron separating from	om pipe. Grafitti on bridge	э.		inches: 0			
			Submerged in S				
Physical Indicators (Outfall a	and Surrounding Area)			inches: 0			
Outfall Damage	Corrosion Peeli	ng Paint	palling/Cracking/C	Chipping			
Deposits/Stains	Oily Paint	☐ Flow Line	e Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:		100		09.04.2009 14:29
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6559.JF	PG
Poor Pool Quality	Odors Colors	Oil Sheer	n 🗌 Suds 🔲 F	loatables			
	Excessive Algae	Other:					
Physical Indicators (In Flow,	, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	☐ Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 14-660

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged ✓ Grafitti

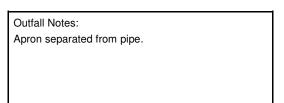
☐ Significant Erosion

GPS Coordinates:

Northing: 728,630.52 Easting: 2,352,112.54



DSCN6552.JPG



### **Location Map**



Inspection Date: 9/4/2	2009 Inspector:	JCW	Flow Desc	cription: N	lone		Pi	revious Rainfall (hrs	: 72+
Illicit Discharge Potentia	l: Unlikely			Subn	nerged ir	n Water: No			
Notes: Apron separating	from pipe. Grafitti or	n bridge.				inches: 0			
				Submer	ged in Se	ediment: No			
Physical Indicators (Outfai	<u>rea)</u>	inches: 0					N. Allen	19	
Outfall Damage	Corrosion	Peeling Pa	Paint Spalling/Cracking/Chipping						
Deposits/Stains	Oily F	Paint [	] Flow Line	e 🗌 Othe	er:				
Pipe Benthic Growth	Brown 0	Orange [	Green	Othe	er:			1.	09.04.2009 14:25
Abnormal Vegetation	☐ Inhibited ☐ E	Excessive						DSCN6553.J	PG
Poor Pool Quality	Odors 0	Colors	Oil Sheer	n 🗌 Suds	s 🗌 Flo	oatables			
	Excessive Alga	ie [	Other:						
Physical Indicators (In Flo	<u>w, if outfall is flowing</u>	)							
Odor:	S	ewage 🗌	Sulfide	Rancid	d/Sour	Petroleum	Other:		
Floatables:	S	ewage $\square$	Suds	Petrole	eum	Other:			
Color:	C	lear 🗌	Brown	Green		Orange	Red	Blue	Yellow
Turbidity:						Gray	Other:		
Sampling Results									
Sample Location: None									

# Outfall ID: 14-670

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 15
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required

▼ Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 722,559.04 Easting: 2,352,092.23



DSCN6520.JPG

Outfall Notes:

Remove sediment buildup from pipe discharge.

### **Location Map**



		'								
Inspection	Date: 9/4/2	.009 Insp	ector: JCW	Flow Des	cription: None			Previou	ıs Rainfall (h	rs): 72+
Illicit Disch	arge Potential	: Unlikely			Submerged	in Water:	No	STO A	4. 1	N/VIII
Notes: Sta	nding water ins	ide pipe due	to sediment at	end - no flow		inches:	0			D = 42
leav	ring pool.				Submerged in S	Sediment:	Partially	M.		VXV - IA
Physical Inc	licators (Outfali	and Surroun	ding Area)			inches:	4		17.5%	
Outfall Dar	Outfall Damage Corrosion Peeling Paint					Chipping				
Deposits/S	Stains	Oily	☐ Paint	☐ Flow Line	e Other:					
Pipe Benth	nic Growth	Brown	Orange	Green	Other:					The state of the s
Abnormal	Vegetation	Inhibited	Excessiv	/e					DSCN652	1.JPG
Poor Pool	Quality	Odors Excessi	Colors	Oil Shee Other:	n Suds F	Floatables				
Physical Inc	licators (In Flov	v, if outfall is	flowing)							
Odor:			Sewage	Sulfide	Rancid/Sour	Petro	leum 🗌 C	ther:		
Floatables:			Sewage	Suds	Petroleum	Other	:			
Color:			Clear	Brown	Green	Orang	ge 🗌 R	ed	Blue	Yellow
Turbidity:						Gray	□ C	ther:		
Sampling Re	<u>esults</u>									
Sample Loc	ation: None									

### 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

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 725,466.97 Easting: 2,351,935.17



DSCN6537.JPG

Outfall Notes:

30 inch CMP discharges into west culvert



1	D-1 0/	4/0000 lasa		Flam Daa	animations. Madenat	٠-	Dua	via.va Dairefall /hr	70
Inspectio	n Date: 9/4	<b>4/2009</b> Insp	ector: JCW	Flow Des	cription: Moderat	e	Pre	vious Rainfall (hr	S): 72+
Illicit Disc	charge Potent	ial: Potentia	I		Submerged	in Water: No			
Notes: S	ample 090904	11 collected fro	m pool (suds).	No detergent		inches: 0			
d	etected.				Submerged in	Sediment: No			
Physical I	Indicators (Out	fall and Surroui	nding Area)			inches: 0			
Outfall D	)amage	✓ Corrosi	on 🗌 Peelii	ng Paint 🗌 S	spalling/Cracking/C	Chipping	8457		
Deposits	s/Stains	Oily	Paint	✓ Flow Line	e Other:		1 lit		
Pipe Ber	nthic Growth	Brown	Orange	Green	Other:		A		09.04.2009 13:39
Abnorma	al Vegetation	Inhibite	d 🗌 Excessi	ve				DSCN6538	.JPG
Poor Po	ol Quality	Odors	Colors	Oil Shee	n 🗸 Suds 🗌 F	Floatables			
		Excess	ive Algae	Other:					
Physical I	Indicators (In F	low, if outfall is	flowing)						
Odor:	None		Sewage	Sulfide	☐ Rancid/Sour	Petroleum	Other:		
Floatable	s: None		Sewage	Suds	Petroleum	Other:			
Color:	None		☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity	: None					Gray	Other:		
Sampling	Results								
Sample L	ocation: Flow	V	Tota	l Chlorine (field	): 0 ppm	Phenol:		0 mg/L	
Sample II	D: 090	904-10	Free	Chlorine (field)	): 0 ppm	Detergents:		0 mg/L	
Time Coll			Tota	l Copper (field)	: 0 ppm				
Time Con	ecteu. 134	U	pH (	field):	8.32 units	Temperature	e:	78 °F	

# Outfall ID: 14-766

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 30
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 725,499.27 Easting: 2,352,884.74



DSCN6549.JPG



### **Location Map**



Inspection Date: 9/4/200	9 Inspector: JCV	V Flow Descript	otion: Submerge	ed, no flow	Previous	Rainfall (hrs):	72+
Illicit Discharge Potential:	Unlikely		Submerged in	n Water: Partial	ly		
Notes: Pool at end of pipe -	no flow leaving pool.			inches: 11	No. 1 day	1	
		5	Submerged in Se		ly		
Physical Indicators (Outfall ar	nd Surrounding Area)			inches: 9		A CONTRACTOR	
Outfall Damage	Corrosion Pe	eling Paint 🗌 Spall	lling/Cracking/Ch	nipping			
Deposits/Stains	Oily Paint	Flow Line	Other:			797-6	
Pipe Benthic Growth	Brown Orang	je 🗸 Green	Other:				A State of the
Abnormal Vegetation	☐ Inhibited ☐ Exces	sive				DSCN6550.JPC	G
Poor Pool Quality	Odors Colors		Suds Flo	oatables			
	Excessive Algae	Other:					
Physical Indicators (In Flow, In	if outfall is flowing)						
Odor:	☐ Sewag		Rancid/Sour	Petroleum	Other:		
Floatables:	Sewag	e Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 14-996

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 48
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 728,232.24 Easting: 2,351,419.68



DSCN6563.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 14-996 US1.

# Location Map



Inspection Date: 9/4/2009 Inspector: JC	W Flow Description: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: Partially	
Notes:	inches: 5	
	Submerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Area)	inches: 0	
Outfall Damage	eling Paint Spalling/Cracking/Chipping	
Deposits/Stains   □ Oily   □ Pair	Flow Line Other:	
Pipe Benthic Growth ✓ Brown ☐ Oral	ge Green Other:	00.03.2000 (33.32
Abnormal Vegetation	ssive	DSCN6564.JPG
Poor Pool Quality Odors Cold	rs Oil Sheen Suds Floatables	
Excessive Algae	Other:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Sewa	ge   Sulfide   Rancid/Sour   Petroleum	Other:
Floatables: Sewa	ge Suds Petroleum Other:	
Color: Clean	☐ Brown ☐ Green ☐ Orange ☐	Red Blue Yellow
Turbidity:	☐ Gray	Other:
Sampling Results		
Sample Location: None		

### Outfall ID: 14-996 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 728,315.61 Easting: 2,351,308.29



DSCN6566.JPG

### Outfall Notes:

Upstream manhole (inlet) located approx 139 ft NW of outfall 14-996. Intermediate area consists of open space and wooded shoreline.

### **Location Map**



Inspection Date: 9/4/2009 Inspector:	JCW Flow Description: Moderate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: No	
Notes:	inches: 0	
	Submerged in Sediment: No	
Physical Indicators (Outfall and Surrounding A	rea) inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/Cracking/Chipping	
Deposits/Stains Oily	Paint Flow Line Other:	
Pipe Benthic Growth Brown	Orange Green Other:	08.04.2008 14:47
Abnormal Vegetation	Excessive	DSCN6567.JPG
Poor Pool Quality Odors	Colors Oil Sheen Suds Floatables	
Excessive Alga	ee Other:	
Physical Indicators (In Flow, if outfall is flowing	<u>)</u>	
Odor: None S	sewage Sulfide Rancid/Sour Petroleum	Other:
Floatables: None	ewage Suds Petroleum Other:	
Color: None 🗆 C	Clear Brown Green Orange	Red Blue Yellow
Turbidity: None	☐ Gray	Other:
Sampling Results		
Sample Location: Flow	Total Chlorine (field): 0 ppm Phenol:	0 mg/L
Sample ID: 090904-01	Free Chlorine (field): 0 ppm Detergents:	0 mg/L
Time Collected: 1450	Total Copper (field): 0 ppm	00 °E
	pH (field): 7.63 units Temperature	e: 82 °F

### Outfall ID: 14-999

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 48
Height (in):
Width (in):
Material: RCP
Shape: Circular
Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 728,349.44 Easting: 2,351,673.15



DSCN6569.JPG

### Outfall Notes:

Outfall partially submerged. Grate on upstream manhole (14-999 US1) could not be removed - sample collected from pool. End pipe section separated.



Inspection Date: 9/4/2009 Inspec	ector: JCW Flow Descript	ion: Submerged, slight flow	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely		Submerged in Water: Partially	
Notes: End section of pipe separated.		inches: 1	
	S	Submerged in Sediment: No	The state of the s
Physical Indicators (Outfall and Surround	<u>ding Area)</u>	inches: 0	
Outfall Damage Corrosio	n Peeling Paint Spalli	ng/Cracking/Chipping	
Deposits/Stains Oily	☐ Paint ✓ Flow Line	Other:	
Pipe Benthic Growth ✓ Brown	Orange Green	Other:	on or coor 12 35
Abnormal Vegetation  Inhibited	Excessive		DSCN6570.JPG
Poor Pool Quality Odors	Colors Oil Sheen	Suds Floatables	
Excessiv	ve Algae		
Physical Indicators (In Flow, if outfall is fa	f <u>lowing)</u>		
Odor: None	Sewage Sulfide	Rancid/Sour Petroleum C	Other:
Floatables: None	Sewage Suds	Petroleum Other:	
Color: None	☐ Clear ☐ Brown ☐		Red Blue Yellow
Turbidity: None		☐ Gray ☐ C	Other:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090904-22	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 1515	Total Copper (field): pH (field):	0 ppm 7.82 units Temperature:	73 ℉
	ρι ι (ιιθια).	7.02 units remperature.	73 1

# Outfall ID: 14-999 US1 NR 216 Classification: Major Outfall - Alternate Location

Structure:	Inlet
Office Fol	low-up Required

✓ Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 728,637.25 Easting: 2,351,528.06



DSCN6573.JPG

### Outfall Notes:

Upstream manhole (inlet) located approx 322 ft NNW of outfall 14-999. Intermediate area consists of railroad right-of-way. Inlet grate could not be removed - screened from pool at outfall. City crews to open grate for future inspections.

### **Location Map**



Inspection Date: 9/4/2009 In:	spector: JCW	Flow De	scription: Trickle		Prev	ious Rainfall (hrs)	: 72+
Illicit Discharge Potential: Unlikel	y		Submerged	I in Water: No			1000
Notes: Inlet grate stuck - sample coll	ected from outfa	ıll pool.		inches: 0	-1		
			Submerged in				
Physical Indicators (Outfall and Surro	<u>unding Area)</u>			inches: 0	93		
Outfall Damage Corro	sion 🗌 Peeli	ng Paint	Spalling/Cracking/C	Chipping			
Deposits/Stains Oily	☐ Paint	☐ Flow Lir	ne 🗌 Other:				
Pipe Benthic Growth Brown	o Orange	Green	Other:				09.04.2009 15:10
Abnormal Vegetation  Inhibit	ed 🗌 Excessi	ve				DSCN6574.J	PG
Poor Pool Quality Odors	☐ Colors	Oil She	en 🗌 Suds 🔲 F	Floatables			
Exces	sive Algae	Other:					
Physical Indicators (In Flow, if outfall	<u>is flowing)</u>						
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: None							

## Outfall ID: 14-1007

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 29
Width (in): 45
Material: RCP

Shape: Elliptical

Barrels: Single

☐ Office Follow-up Required✓ Field Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 722,541.80 Easting: 2,352,100.69



DSCN6523.JPG

Outfall Notes:

Remove sediment buildup from pipe discharge.

### **Location Map**



Inspection Date: 9/4/2	2009 Inspector: JCW	Flow De	scription: None		Pre	evious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	in Water: No	Kelly		100
Notes: Garbage inside pi	pe.			inches: 0		1 Belleville	
			Submerged in	Sediment: Parti	ally	A STATE OF THE STA	
Physical Indicators (Outfal	I and Surrounding Area)			inches: 1	370	000	
Outfall Damage	Corrosion Peeli	ng Paint 🗌	Spalling/Cracking/C	Chipping		-	
Deposits/Stains	Oily Paint	☐ Flow Lir	ne   Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:				09.04.2002 (3.30
Abnormal Vegetation	☐ Inhibited ☐ Excess	ve				DSCN6525.J	PG
Poor Pool Quality	Odors Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flor	w, if outfall is flowing)						
Odor:	Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

### Outfall ID: 15-744

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 749,375.36 Easting: 2,354,297.21



DSCN6390.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-744 US1.

### **Location Map**



Inspection Date: 9/2/	2009 Inspec	ctor: JCW	Flow Des	scription: Submer	ged, slight flow	Prev	ious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Unlikely			Submerged	I in Water: Parti	ally		3
Notes:					inches: 12		Market >	4
				Submerged in	Sediment: Parti	ally	N I	
Physical Indicators (Outfa	ll and Surround	<u>ling Area)</u>			inches: 2	4		
Outfall Damage	Corrosion	n 🗌 Peelir	ng Paint 🗌 🥄	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lin	ne Dther:				
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		Office State of the State of th		09 01 2009 23 30
<b>Abnormal Vegetation</b>	Inhibited	Excessiv	/e				DSCN6391.JF	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessive	e Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flo	<u>owing)</u>						
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: None								

### Outfall ID: 15-744 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

- ✓ Office Follow-up Required
- ✓ Field Follow-up Required
- Damaged
- Grafitti
- ☐ Significant Erosion

GPS Coordinates:

Northing: 749,365.66 Easting: 2,354,249.96



DSCN6885.JPG

### Outfall Notes:

Upstream manhole (inlet) located approx 48 ft W of outfall 15-744. Intermediate area consists of road right-of-way. Verify correct upstream location (vault for 36" pipe).

### **Location Map**



Inspection Date: 9/2/2009 Inspector:	JCW Flow Description:	Submerged, slight flow	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Si	ubmerged in Water: Partially	
Notes:		inches: 13	
	Subn	nerged in Sediment: No	
Physical Indicators (Outfall and Surrounding A	<u>Area)</u>	inches: 0	
Outfall Damage	Peeling Paint Spalling/0	Cracking/Chipping	
Deposits/Stains Oily	Paint	ther:	
Pipe Benthic Growth Brown	Orange Green O	ther:	09-11-2009 10:28
Abnormal Vegetation Inhibited	Excessive		DSCN6886.JPG
Poor Pool Quality Odors	Colors Oil Sheen S	uds	
☐ Excessive Alç	ae Other:		
Physical Indicators (In Flow, if outfall is flowing	<u>g)</u>		
Odor: None	Sewage 🗌 Sulfide 🔲 Rar	ncid/Sour	her:
Floatables: None	Sewage   Suds   Pet	roleum	
Color: None	Clear Brown Gre	een 🗌 Orange 🗌 Re	ed Blue Yellow
Turbidity: None		Gray Ot	her:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090902-12	, ,	0 ppm Detergents:	0 mg/L
Time Collected: 1545		0 ppm	74 05
	pH (field): 8.	1 units Temperature:	71 °F

### Outfall ID: 15-787

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 31
Width (in): 50
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

### **GPS Coordinates:**

Northing: 750,138.74 Easting: 2,355,658.72



DSCN6608.JPG

### Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-787 US1. Pipe info from MS4 map.

### **Location Map**



Inspection Date: 9/8/2	2009 Inspector: JCW	Flow Descripti	ion: Submerg	ged, indetermina	ate Pre	evious Rainfall (hrs	3): 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	in Water: Parti	ally		The second
Notes:				inches: 27	- F	45.34	
		S	submerged in S				1
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 0			
Outfall Damage	✓ Corrosion  Peeli	ng Paint 🗌 Spalli	ng/Cracking/C	hipping			
Deposits/Stains	Oily Paint	Flow Line	Other:		* 1		
Pipe Benthic Growth	☐ Brown ☐ Orange	<b>✓</b> Green	Other:				09.08.2009 11:24
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6609.	JPG
Poor Pool Quality	Odors Colors Excessive Algae	Oil Sheen Other:	Suds F	loatables			
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

### Outfall ID: 15-787 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

☐ Office Follow-up Required☐ Field Follow-up Required
<ul><li>□ Damaged</li><li>□ Grafitti</li><li>□ Significant Erosion</li></ul>
GPS Coordinates:

Northing: 750,110.54 Easting: 2,355,519.17

DSCN6611.JPG

### Outfall Notes:

Upstream manhole located approx 142 ft W of outfall 15-787. Intermediate area consists of residential property.

### **Location Map**



Inspection Date: 9/8/2009 Inspector: JCW Flow	v Description: Submerged, no flow	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: Partially	Wint.
Notes:	inches: 1	
	Submerged in Sediment: No	<b>《基本》</b>
Physical Indicators (Outfall and Surrounding Area)	inches: 0	
Outfall Damage	Spalling/Cracking/Chipping	
Deposits/Stains   □ Oily   □ Paint   □ Flow	w Line   Other:	
Pipe Benthic Growth Brown Orange Gre	een Other:	09.08.2008 11:80
Abnormal Vegetation		DSCN6612.JPG
Poor Pool Quality	Sheen Suds Floatables	
Excessive Algae Oth	ner:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Sewage Sulfi	ide Rancid/Sour Petroleum Oth	er:
Floatables: Sewage Sud	s Petroleum Other:	
Color: Clear Brow	wn Green Orange Red	I ☐ Blue ☐ Yellow
Turbidity:	Gray Oth	er:
Sampling Results		
Sample Location: Pool Total Chlorine	(field): 0 ppm Phenol:	0 mg/L
Sample ID: 090908-09 Free Chlorine		0 mg/L
Total Copper (	(field): 0 ppm	
pH (field):	8.41 units Temperature:	75 °F

#### Outfall ID: 15-910

NR 216 Classification: Major Outfall

Structure:	Closed Pipe
Diameter (i	n):
Height (in):	44
Width (in):	72
Material:	CMP
Shape:	Elliptical
Barrels:	Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 748,349.47 Easting: 2,356,438.14



DSCN6616.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 15-910 US1. Pipe info from MS4 map.

#### **Location Map**



Inspection	Date: 9/8/2	009 Insp	ector: JCW	Flow Des	scription: Submer	ged, indetermina	ate	Previous Rainfall (hr	s): 72+
Illicit Discha	arge Potential	: Unlikely			Submerged	in Water: Fully			
Notes:						inches:			
					Submerged in				
Physical Ind	<u>licators (Outfall</u>	and Surrour	nding Area)			inches:		Photo Not A	vailable
Outfall Dar	mage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/C	Chipping		Submerged (	Dutfall
Deposits/S	stains	Oily	Paint	☐ Flow Lin	e Other:				
Pipe Benth	ic Growth	Brown	Orange	Green	Other:				
Abnormal	Vegetation	Inhibited	d Excessiv	/e				_Submerge	d.jpg
Poor Pool	Quality	Odors Excessi	☐ Colors ve Algae	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
Physical Ind	licators (In Flov	v, if outfall is	flowing)						
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Oth	ier:	
Floatables:			Sewage	Suds	Petroleum	Other:			
Color:			Clear	Brown	Green	Orange	Red	d Blue	Yellow
Turbidity:						Gray	Oth	ier:	
Sampling Re	<u>esults</u>								
Sample Loca	ation: None								

#### Outfall ID: 15-910 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 748,345.93 Easting: 2,356,300.65



DSCN6617.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 138 ft W of outfall 15-910. Intermediate area consists of residential property.

#### **Location Map**



Inspection I	Date: 9/8/2	<b>2009</b> Insp	ector: JCW	Flow Des	scription:	Submer	ged, indeter	minate I	Previou	us Rainfall (h	nrs):	72+
Illicit Discha	arge Potential	: Unlikely			Su	bmerged	in Water: F	ully	Post			-
Notes: Fas	t food containe	er in manhole	- not widespre	ad floatables.			inches: 5	58		24	•	200
					Subm	erged in	Sediment: N	500	4			
Physical Ind	licators (Outfal	and Surrour	nding Area)				inches: 0	)	M	7		
Outfall Dan	nage	Corrosi	on 🗌 Peeli	ng Paint 🗌 S	Spalling/C	racking/C	Chipping	100				- A
Deposits/S	tains	Oily	Paint	☐ Flow Lin	e 🗌 Ot	her:						The same
Pipe Benth	ic Growth	Brown	Orange	Green	Ot	her:					08	.08.2009 11:51
Abnormal V	Vegetation	Inhibite	d 🗌 Excessi	ve						DSCN661	8.JPG	;
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Su	ıds 🗌 I	loatables					
		Excess	ive Algae	Other:								
Physical Ind	licators (In Flo	v, if outfall is	flowing)									
Odor:			Sewage	Sulfide	☐ Ran	cid/Sour	Petrole	eum 🗌 Othe	r:			
Floatables:			Sewage	Suds	☐ Petr	oleum	Other:					
Color:			Clear	Brown	Gre	en	Orange	e Red		Blue		Yellow
Turbidity:							Gray	Othe	r:			
Sampling Re	esults											
Sample Loca	ation: Pool		Tota	l Chlorine (field	d): (	) ppm	Phenol:		0	mg/L		
Sample ID:	09090	8-03		Chlorine (field	,	) ppm	Deterge	ents:	0	mg/L		
Time Collect	ted: 1155			l Copper (field) field):		) ppm 3 units	Temper	ature:	74	· °F		

### Outfall ID: 15-940

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 60
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 749,381.95 Easting: 2,354,301.28



DSCN6387.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-940 US1.

# 15-744 US 15-744

**Location Map** 

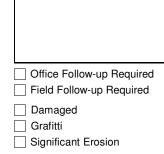
Inspection Date: 9/2/2	2009 Inspe	ector: JCW	Flow De	scription: Submer	ged, slight flow	Prev	rious Rainfall (hrs	): 72+
Illicit Discharge Potentia	l: Unlikely			Submerged	I in Water: Parti	ally		
Notes:					inches: 14			
				Submerged in				
Physical Indicators (Outfai	ll and Surround	<u>ding Area)</u>			inches: 0			
Outfall Damage	Corrosio	n 🗌 Peelir	ng Paint	Spalling/Cracking/0	Chipping	5		
Deposits/Stains	Oily	☐ Paint	☐ Flow Lir	ne Other:				
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:				00.01.2007 20.20
Abnormal Vegetation	Inhibited	Excessiv	/e				DSCN6388	IPG
Poor Pool Quality	Odors	Colors	Oil She	en 🗌 Suds 🔲 I	Floatables			
	Excessiv	e Algae	Other:					
Physical Indicators (In Flo	w, if outfall is f	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: None								

#### Outfall ID: 15-940 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole



GPS Coordinates:

Northing: 749,378.20

Easting: 2,354,254.49

# 09.11.2009 10:23

DSCN6881.JPG

#### Outfall Notes:

Upstream manhole located approx 47 ft W of outfall 15-940. Intermediate area consists of road right-of-way.

#### **Location Map**



Inspection	Date: 9/2/	<b>2009</b> Insp	ector: JCW	Flow Desc	cription:	Submer	ged, slight flo	w P	reviou	us Rainfall (hrs):	72+
Illicit Disch	arge Potentia	l: Unlikely			Su	bmerged	I in Water: Pa	rtially	A		13/1/1/1
Notes:							inches:	4			P. Service
					Subm	erged in	Sediment: No				
Physical Inc	dicators (Outfa	ll and Surroun	nding Area)				inches: 0				
Outfall Da	mage	Corrosio	on 🗌 Peelii	ng Paint 🗌 S	palling/C	racking/0	Chipping	7	13		
Deposits/S	Stains	Oily	☐ Paint	Flow Line	e 🗌 Otl	ner:			1		1
Pipe Bentl	hic Growth	Brown	Orange	Green	Otl	ner:		No.			0.11.2009 10:23
Abnormal	Vegetation	Inhibited	d 🗌 Excessi	ve						DSCN6882.JP	G
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Su	ds 🗌 l	Floatables				
		Excessi	ve Algae	Other:							
Physical Inc	dicators (In Flo	w, if outfall is	flowing)								
Odor:	None		Sewage	Sulfide	Rand	cid/Sour	Petroleu	m   Other			
Floatables:	None		Sewage	Suds	Petro	oleum	Other:				
Color:	None		Clear	Brown	Gree	n	Orange	Red		Blue	Yellow
Turbidity:	None						Gray	Other	:		
Sampling R	'esults										
Sample Loc			Tota	l Chlorine (field)	): 0	ppm	Phenol:		0	mg/L	
Sample ID:		)2-05L		Chlorine (field)		ppm	Deterger	ts:		mg/L	
Time Collec			Tota	l Copper (field):	0	ppm					
			pH (	field):	8.11	units	Tempera	ture:	70	°F	

#### Outfall ID: 15-959

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 54
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

	Office Follow-up Required
$\Box$	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

#### **GPS Coordinates:**

Northing: 751,000.02 Easting: 2,355,668.57



DSCN6603.JPG

#### Outfall Notes:

Outfall fully submerged and not physically located. GPS coordinates approximate. Outfall screened upstream at 15-959 US1. Pipe info from MS4 map.

#### **Location Map**



Inspection	Date: 9/8/2	009 Insp	ector: JCW	Flow Des	cription: Submer	ged, indetermina	ate	Previous Rainfall (hrs): 72+
Illicit Disch	arge Potential	Unlikely			Submerged	in Water: Fully		
Notes:						inches:		
					Submerged in			
Physical Ind	licators (Outfall	and Surrour	ding Area)			inches:		Photo Not Available
Outfall Dar	nage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/C	Chipping		Submerged Outfall
Deposits/S	tains	Oily	☐ Paint	☐ Flow Line	e Other:			
Pipe Benth	ic Growth	Brown	Orange	Green	Other:			
Abnormal '	Vegetation	Inhibited	d Excessiv	⁄e				_Submerged.jpg
Poor Pool	Quality	Odors Excessi	☐ Colors ve Algae	Oil Shee Other:	n 🗌 Suds 🔲 F	Floatables		
Physical Ind	licators (In Flow	ı, if outfall is	flowing)					
Odor:			Sewage	Sulfide	☐ Rancid/Sour	Petroleum	Oth	ner:
Floatables:			Sewage	Suds	Petroleum	Other:		
Color:			Clear	Brown	Green	Orange	Re	d Blue Yellow
Turbidity:						Gray	Oth	ner:
Sampling Re	esults							
Sample Loc	ation: None							
1								
i								
İ								

#### Outfall ID: 15-959 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Re	equired
Field Follow-up Red	quired

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 751,143.11 Easting: 2,355,663.31



DSCN6604.JPG

#### Outfall Notes:

Upstream manhole located approx 100 ft N of outfall 13-100. Intermediate area consists of open space.



Inspection Date: 9/8/2009 Inspector:	JCW Flow Description: Submerged, indetermina	ate Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: Fully	
Notes:	inches: 64	
	Submerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Are	<u>a)</u> inches: 0	
Outfall Damage	Peeling Paint	
Deposits/Stains Oily Pa	aint Flow Line Other:	
Pipe Benthic Growth Brown O	range Green Other:	09 08 2009 11 13
Abnormal Vegetation	ccessive	DSCN6606.JPG
Poor Pool Quality Odors Co	olors	
Excessive Algae	Other:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Se	wage   Sulfide   Rancid/Sour   Petroleum	Other:
Floatables: Se	wage Suds Petroleum Other:	
Color:	ear Brown Green Orange	Red Blue Yellow
Turbidity:	Gray	Other:
Sampling Results		
Sample Location: Pool	Total Chlorine (field): 0 ppm Phenol:	0 mg/L
Sample ID: 090908-20	Free Chlorine (field): 0 ppm Detergents:	0 mg/L
Time Collected: 1115	Total Copper (field): 0 ppm	75.05
	pH (field): 8.2 units Temperatur	e: 75 °F

#### Outfall ID: 15-1032

NR 216 Classification: Major Outfall

Structure: Closed Pipe Diameter (in): 24 Height (in): Width (in): Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up Required Field Follow-up Required

Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

752,962.51 Northing: Easting: 2,352,827.26



DSCN6375.JPG

#### Outfall Notes:

24 inch CMP discharging into culvert. Outfall partially submerged. Outfall screened upstream at 15-1032 US1.

#### **Location Map**



Inspection Date: 9/2/2	2009 Insp	ector: JCW	Flow Des	scription: Submer	rged, indetermin	ate Pre	vious Rainfall (hrs):	72+
Illicit Discharge Potential	: Unlikely			Submerged	d in Water: Part	ially		
Notes:					inches: 7			
				Submerged in	Sediment: No			
Physical Indicators (Outfall	l and Surrour	nding Area)			inches: 0			THE DESIGNATION OF THE PERSON
Outfall Damage	Corrosi	on 🗌 Peelir	ng Paint 🔲 🥄	Spalling/Cracking/0	Chipping		40	
Deposits/Stains	Oily	Paint	Flow Lin	e Dther:				
Pipe Benthic Growth	Brown	Orange	Green	Other:				09 05 2009 21:54
Abnormal Vegetation	Inhibited	d Excessiv	ve				DSCN6377.JP	G
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessi	ve Algae	Other:					
Physical Indicators (In Flow	w, if outfall is	flowing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: 15-1032 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 752,953.57 Easting: 2,352,825.04

# 09,03.2708 22:04

DSCN6378.JPG

#### Outfall Notes:

Upstream manhole located approx 9 ft SSW of outfall 15-1032. Intermediate area consists of open space in street right-of-way.

#### **Location Map**



Inspection Date: 9/2/2009 Inspector:	JCW Flow Description: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerged in Water: Partially	
Notes:	inches:	
	Submerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Are	<u>a)</u> inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/Cracking/Chipping	
<b>Deposits/Stains</b> ☐ Oily ☐ P	aint  Flow Line  Other:	
Pipe Benthic Growth Brown C	range Green Other:	03 03 (0000 132.01
Abnormal Vegetation	ccessive	DSCN6379.JPG
Poor Pool Quality Odors C	olors	
☐ Excessive Algae	Other:	
Physical Indicators (In Flow, if outfall is flowing)		
Odor: Se	wage   Sulfide   Rancid/Sour   Petroleum	Other:
Floatables: Se	wage Suds Petroleum Other:	
Color:	ear 🗌 Brown 🗌 Green 🔲 Orange 🗌	Red Blue Yellow
Turbidity:	☐ Gray	Other:
Sampling Results		
Sample Location: Pool	Total Chlorine (field): 0 ppm Phenol:	0 mg/L
Sample ID: 090902-04	Free Chlorine (field): 0 ppm Detergents:	0 mg/L
Time Collected: 1410	Total Copper (field): 0 ppm	70 %
	pH (field): 7.58 units Temperature:	72 °F

#### Outfall ID: 15-1067

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 752,967.99 Easting: 2,352,900.13



DSCN6371.JPG

#### Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-1067 US1. CMP crushed, with holes.

#### **Location Map**



Inspection Date: 9/2/2	2009 Inspec	tor: JCW	Flow Des	scription: Submer	ged, slight flow	Prev	vious Rainfall (hrs)	: 72+
Illicit Discharge Potential	: Unlikely			Submerged	I in Water: Part	ially	1	PL SX
Notes: Crushed pipe.					inches: 14		157	
				Submerged in	Sediment: Part	ially	A	
Physical Indicators (Outfall	l and Surroundi	ing Area)			inches: 5	X is		20
Outfall Damage	✓ Corrosion	Peelin	ng Paint 🗌 🤄	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lin	ne Other:		100	17	
Pipe Benthic Growth	Brown	Orange	Green	Other:			1	11 - 22 09 21 48
Abnormal Vegetation	Inhibited	Excessiv	/e				DSCN6372.JI	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessive	Algae	Other:					
Physical Indicators (In Flow	w, if outfall is flo	owing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: 15-1067 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 753,301.77 Easting: 2,352,827.99

# 09.01.2009 22:14

DSCN6381.JPG

#### Outfall Notes:

Upstream manhole located approx 365 ft NNW of outfall 15-1067. Intermediate area consists of Main Street and right-of-way. Intermediate manhole not found

#### **Location Map**



Inspection Date: 9/2/2009 Inspector:	JCW Flow Description: S	Submerged, indeterminate P	revious Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Subr	merged in Water: Partially	
Notes:		inches:	
	Submer	ged in Sediment: No	
Physical Indicators (Outfall and Surrounding Ar	<u>ea)</u>	inches: 0	
Outfall Damage Corrosion	Peeling Paint Spalling/Cra	cking/Chipping	The state of the s
Deposits/Stains Oily F	Paint	er:	
Pipe Benthic Growth Brown	Orange Green Othe	er:	08 07 2009 42:14
Abnormal Vegetation	excessive		DSCN6382.JPG
Poor Pool Quality Odors	Colors Oil Sheen Suds	s Floatables	
Excessive Alga	e Other:		
Physical Indicators (In Flow, if outfall is flowing	1		
Odor: S	ewage 🗌 Sulfide 🔲 Rancio	d/Sour  Petroleum  Other	:
Floatables: S	ewage	eum   Other:	
Color:	lear 🗌 Brown 🗌 Green	Orange Red	☐ Blue ☐ Yellow
Turbidity:		Gray Other	:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0	ppm Phenol:	0 mg/L
Sample ID: 090902-27	, ,	ppm Detergents:	0 mg/L
Time Collected: 1420	Total Copper (field): 0 pH (field): 7.95	ppm units Temperature:	75 °F
	pri (iielu). 7.95	unito remperature.	75 1

#### Outfall ID: 15-1093

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 15
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 754,276.28 Easting: 2,352,857.66



DSCN6358.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-1093 US1.

#### **Location Map**



Inspection Date: 9/2/	2009 Inspec	tor: JCW	Flow Des	scription: Submer	ged, slight flow	Pre	vious Rainfall (hrs	): 72+	
Illicit Discharge Potentia	l: Potential			Submerged	l in Water: Parti	ally		100	
Notes:					inches: 7		E CONTRACTOR	文 左 4	
				Submerged in	Sediment: No		A A	300	
Physical Indicators (Outfall and Surrounding Area) inches: 0									
Outfall Damage   ✓ Corrosion ☐ Peeling Paint ☐ Spalling/Cracking/Chipping									
Deposits/Stains	Oily	Paint	✓ Flow Lin	ne   Other:					
Pipe Benthic Growth	<b>✓</b> Brown	Orange	Green	Other:		26		09.01.2009 21:03	
<b>Abnormal Vegetation</b>	Inhibited	Excessiv	/e				DSCN6359.J	IPG	
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲	Floatables				
	Excessive	Algae	Other:						
Physical Indicators (In Flo	w, if outfall is flo	owing)							
Odor: Faint		Sewage	✓ Sulfide	Rancid/Sour	Petroleum	Other:			
Floatables: None		Sewage	Suds	Petroleum	Other:				
Color: None		Clear	Brown	Green	Orange	Red	Blue	Yellow	
Turbidity: Cloudy					Gray	Other:			
Sampling Results									
Sample Location: None									

#### Outfall ID: 15-1093 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Requ	uired
Field Follow-up Requi	red

DamagedGrafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 754,194.17 Easting: 2,352,825.37

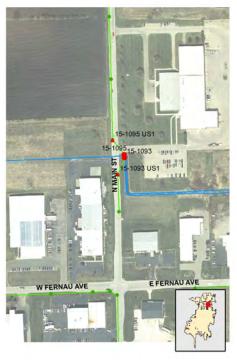


DSCN6365.JPG

#### Outfall Notes:

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

#### **Location Map**



Inspection	Date: 9/2	2/ <b>2009</b> Insp	ector: JCW	Flow Des	cription:	Submer	ged, indetermin	ate Previous	Rainfall (hrs):	72+
Illicit Disch	arge Potent	ial: Potentia	I		Sul	omerged	in Water: Part	ally	100	
Notes: Am	monia test =	0 mg/L					inches:			
					Subme	erged in	Sediment: No	100		
Physical Inc	dicators (Outf	all and Surrour	nding Area)				inches: 0			
Outfall Da	mage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Ci	acking/C	Chipping			
Deposits/S	Stains	Oily	Paint	☐ Flow Line	e 🗌 Oth	ner:				
Pipe Bentl	nic Growth	Brown	Orange	Green	Oth	ner:				01,2009 21:215
Abnormal	Vegetation	Inhibited	d Excessiv	/e				V	DSCN6366.JPG	7
Poor Pool	Quality	Odors	Colors	Oil Shee	n 🗌 Su	ds 🗌 F	loatables			
		Excessi	ve Algae	Other:						
Physical Inc	dicators (In F	low, if outfall is	flowing)							
Odor:	Faint		Sewage	Sulfide	Rand	id/Sour	Petroleum	✓ Other: Ammo	nia-like burning	odor
Floatables:	None		Sewage	Suds	☐ Petro	leum	Other:			
Color:	None		Clear	Brown	Gree	n	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Other:		
Sampling R	esults									
Sample Loc			Tota	I Chlorine (field	): 0	ppm	Phenol:	0 r	ng/L	
Sample ID:	0909	902-03	Free	Chlorine (field)	): 0	ppm	Detergents	: 0 r	ng/L	
Time Collec	ted: 1325	5		Copper (field)		ppm	_		_	
			pH (	ield):	7.79	units	Temperatu	re: 76 °	F	

#### Outfall ID: 15-1095

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 24
Width (in): 38
Material: RCP
Shape: Elliptical

.

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

#### **GPS Coordinates:**

Northing: 754,291.41 Easting: 2,352,857.29



DSCN6353.JPG

#### Outfall Notes:

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

#### **Location Map**



Inspection Date: 9/2/2009 Inspector: JC	W Flow Description:	Submerged, slight flow	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Potential	S	ubmerged in Water: Partially	
Notes: Sample collected from surface sheen in po	ol.	inches: 8	
	Subr	nerged in Sediment: No	
Physical Indicators (Outfall and Surrounding Area)		inches: 0	A THE CASE
Outfall Damage	eling Paint 🗌 Spalling/0	Cracking/Chipping	
Deposits/Stains Oily Paint	☐ Flow Line ☐ O	ther:	
Pipe Benthic Growth Brown Oran	ge 🗹 Green 🗌 O	ther:	OP-01.2008 90148
Abnormal Vegetation	ssive		DSCN6354.JPG
Poor Pool Quality	s Oil Sheen S	uds Floatables	
☐ Excessive Algae	Other: milky sheet	en	
Physical Indicators (In Flow, if outfall is flowing)			
Odor: None Sewa	ge 🗌 Sulfide 🔲 Rai	ncid/Sour Petroleum	Other:
Floatables: Origin not obvious	ge 🗌 Suds 📗 Pet	troleum Other:	
Color: None	☐ Brown ☐ Gre	een Orange	Red Blue Yellow
Turbidity: Cloudy		Gray	Other:
Sampling Results			
Sample Location: Pool T	otal Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID. 090902-03L		0 ppm Detergents:	0 mg/L
Time Collected: 1300		0 ppm	0 %
р	H (field):	0 units Temperature:	0 °F

#### Outfall ID: 15-1095 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 754,361.61 Easting: 2,352,800.01

# 09.01.2009 21:09

DSCN6361.JPG

#### Outfall Notes:

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

#### **Location Map**



Inspection	Date: 9/2/2	2009 Insp	ector: JCW	Flow Desc	cription:	Submer	ged, slight flow	Pre	vious Rainfall (h	rs): 72+
Illicit Disch	arge Potentia	l: Potential			Sul	omerged	in Water: Parti	ally		43.25
Notes:							inches:			
					Subme	erged in	Sediment: No			
Physical Inc	dicators (Outfal	l and Surroun	ding Area)				inches: 0			
Outfall Dai	mage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	palling/Cr	acking/C	Chipping			3
Deposits/S	Stains	Oily	Paint	☐ Flow Line	e 🗌 Oth	ner:		1		100
Pipe Benth	nic Growth	Brown	Orange	Green	Oth	ner:		= 10		09 01 2009 21 09
Abnormal	Vegetation	Inhibited	d Excessi	ve					DSCN6362	2.JPG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Sud	ds 🗌 F	loatables			
		Excessi	ve Algae	Other:						
Physical Inc	dicators (In Flo	w, if outfall is	flowing)							
Odor:	None		Sewage	Sulfide	Rand	id/Sour	Petroleum	Other:		
Floatables:	None		Sewage	Suds	Petro	oleum	Other:			
Color:	None		Clear	Brown	Gree	n	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Other:		
Sampling R	<u>esults</u>									
Sample Loc	ation: Pool		Tota	I Chlorine (field)	): 0	ppm	Phenol:		0 mg/L	
Sample ID:	09090	2-08		Chlorine (field)		ppm	Detergents	:	0 mg/L	
Time Collec	ted: 1315			l Copper (field): field):		ppm units	Temperatu	e:	75 °F	

### Outfall ID: 15-1217

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 15
Height (in):
Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged
☐ Grafitti

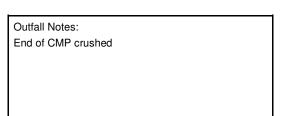
☐ Significant Erosion

GPS Coordinates:

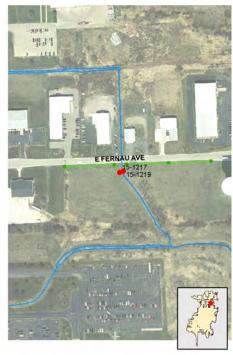
Northing: 753,609.32 Easting: 2,353,472.37



DSCN6350.JPG



#### **Location Map**



Inspection Date: 9/2/2009	Inspector: JCW	Flow Des	scription: None		Prev	rious Rainfall (hr	s): 72+
Illicit Discharge Potential: U	Jnlikely		Submerged	in Water: No			
Notes: Wet, no flow				inches: 0			
			Submerged in	Sediment: Parti	ally		
Physical Indicators (Outfall and	Surrounding Area)			inches: 3	The same of the sa	Xi - Vill	
Outfall Damage	Corrosion Peelin	g Paint 🗌 S	Spalling/Cracking/C	Chipping			100
Deposits/Stains	Oily Paint	☐ Flow Lin	e Dther:			5	
Pipe Benthic Growth	Brown Orange	Green	Other:			P	
Abnormal Vegetation	Inhibited	re				DSCN6351	.JPG
Poor Pool Quality	Odors Colors  Excessive Algae	Oil Shee	en 🗌 Suds 📗 F	Floatables			
Physical Indicators (In Flow, if o	outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

#### Outfall ID: 15-1219

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 21
Height (in): Width (in):

Material: CMP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

✓ Damaged
☐ Grafitti

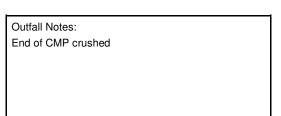
☐ Significant Erosion

GPS Coordinates:

Northing: 753,616.08 Easting: 2,353,490.92



DSCN6346.JPG



#### **Location Map**



Inspection Date: 9/2/2	2009 Inspector: JCW	Flow De	scription: None		Pre	vious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	I in Water: No	100 m	EN TO	With the same
Notes: Wet, no flow				inches: 0			
			Submerged in	Sediment: Parti	ally		Y VY
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 4			
Outfall Damage	Corrosion Peeli	ng Paint 🗌	Spalling/Cracking/C	Chipping		A Park	
Deposits/Stains	Oily Paint	Flow Lir	ne  Other:				
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:				
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6347.JF	PG
Poor Pool Quality	Odors Colors	Oil She	en 🗌 Suds 🔲 I	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

#### Outfall ID: 15-1248

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 33
Width (in): 49
Material: CMP
Shape: Elliptical
Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 753,629.68 Easting: 2,354,136.98



DSCN6340.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-1248 US1.

#### **Location Map**



Inspection Date: 9/2/2	009 Inspe	ector: JCW	Flow De	scription: Submer	ged, slight flow	Prev	rious Rainfall (hrs):	72+
Illicit Discharge Potential	: Unlikely			Submerged	I in Water: Parti	ally		100
Notes:					inches: 28			
				Submerged in	Sediment: Parti	ally		
Physical Indicators (Outfall	and Surround	<u>ding Area)</u>			inches: 8			
Outfall Damage	Corrosio	n 🗌 Peelir	ng Paint 🗌	Spalling/Cracking/0	Chipping			1
Deposits/Stains	Oily	Paint	☐ Flow Lir	ne				1
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		2 4		02 01 2009 20 20
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6341.JF	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessiv	ve Algae	Other:					
Physical Indicators (In Flow	v, if outfall is f	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: None								

#### Outfall ID: 15-1248 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 754,020.83 Easting: 2,354,112.99

# 08.07.2009.20124

DSCN6343.JPG

#### Outfall Notes:

Upstream manhole located approx 392 ft N of outfall 15-1248. Intermediate area consists of Moser Street and right-of-way.

#### **Location Map**



Inspection	Date: 9/2/2	2009 Insp	ector: JCW	Flow Des	scription: Submer	ged, slight flow	Pre	evious Rainfall (hrs	): 72+
Illicit Disch	arge Potentia	l: Unlikely			•	in Water: No			
Notes:						inches: 0			
					Submerged in			6	
Physical Inc	dicators (Outfa	l and Surrou	nding Area)			inches: 0		THE STATE OF THE S	
Outfall Da	mage	Corrosi	on 🗌 Peelir	ng Paint 🔲 S	Spalling/Cracking/C	Chipping		1 1	
Deposits/S	Stains	Oily	Paint	☐ Flow Lin	e Other:				
Pipe Bentl	nic Growth	Brown	Orange	Green	Other:				01-01-2009-20:24
Abnormal	Vegetation	Inhibite	d 🗌 Excessiv	ve				DSCN6344.	IPG
Poor Pool	Quality	Odors Excess	☐ Colors ve Algae	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
Physical Inc	dicators (In Flo	w, if outfall 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 R	<u>esults</u>								
Sample Loc	ation: Pool		Tota	l Chlorine (field	d): 0 ppm	Phenol:		0 mg/L	
Sample ID:	09090	2-07		Chlorine (field	,	Detergents	•	0 mg/L	
Time Collec	eted: 1230			l Copper (field) field):	): 0 ppm 8.1 units	Temperatu	re:	72 °F	

#### Outfall ID: 15-1263

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 30
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 756,395.77 Easting: 2,354,104.60



DSCN6331.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-1263 US1 and US2.

#### **Location Map**



Inspection Date: 9/2/2	2009 Insp	ector: JCW	Flow Des	scription: Submer	rged, no flow	Pre	evious Rainfall (hrs):	72+
Illicit Discharge Potential	: Unlikely			Submerged	d in Water: Par	tially 🌉		
Notes:					inches: 18			
				Submerged in	Sediment: Par	tially <b>M</b>		
Physical Indicators (Outfall	l and Surrour	nding Area)			inches: 10			11
Outfall Damage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/0	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lin	e Dther:				
Pipe Benthic Growth	<b>✓</b> Brown	Orange	Green	Other:				0/01.2009.19:28
Abnormal Vegetation	Inhibited	d Excessiv	ve				DSCN6332.JP	G
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 📗	Floatables			
	Excessi	ve Algae	Other:					
Physical Indicators (In Flow	w, if outfall is	flowing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	n Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: 15-1263 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 756,394.84 Easting: 2,354,074.91

# #SCT EDE STAR

DSCN6334.JPG

#### Outfall Notes:

Upstream manhole located approx 31 ft W of outfall 15-1263. Intermediate area consists of street and railroad right-of-way.

#### **Location Map**



Inspection I	Date: 9/2/2	2009 Insp	ector: JC	N Flow De	scription:	Submer	ged, indeter	minate	Previou	us Rainfall (hrs)	: 72+
Illicit Discha	arge Potentia	l: Unlikely			Sı	bmerged	in Water: F	Partially	1		
Notes:							inches:		1/2		N. C.
					Subm	erged in	Sediment: 1	No	199		A A
Physical Ind	licators (Outfal	l and Surroun	ding Area)				inches: (	0	The second		Je - 1/1
Outfall Dan	nage	Corrosio	on 🗌 Pe	eling Paint	Spalling/C	racking/C	Chipping		/		
Deposits/S	tains	Oily	☐ Paint	☐ Flow Li	ne 🗌 Ot	her:					
Pipe Benth	ic Growth	Brown	Oran	ge 🗌 Green	□ Ot	her:					09.01.2009 18:29
Abnormal '	Vegetation	Inhibited	d 🗌 Exce	ssive						DSCN6335.J	PG
Poor Pool	Quality	Odors	Colo	s Oil She	en 🗌 Sı	ıds 🗌 F	loatables				
		Excessi	ve Algae	Other:							
Physical Ind	licators (In Flo	w, if outfall is	flowing)								
Odor:			☐ Sewa	ge 🗌 Sulfide	☐ Ran	cid/Sour	Petrole	eum 🗌 Othe	er:		
Floatables:			Sewa	ge 🗌 Suds	Petr	oleum	Other:				
Color:			Clear	Brown	☐ Gre	en	Orange	e 🗌 Red		Blue	Yellow
Turbidity:							Gray	Othe	er:		
Sampling Re	esults										
Sample Loca	ation: Pool		Т	otal Chlorine (fiel	d): (	) ppm	Phenol	• •	0	mg/L	
Sample ID:	09090	2-11	F	ree Chlorine (field	d): (	) ppm	Deterge	ents:	0	mg/L	
Time Collect	ted: 1141			otal Copper (field	•	) ppm	_				
			р	H (field):	7.4	1 units	Tempe	rature:	70	°F	

#### Outfall ID: 15-1348

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 36
Height (in):
Width (in):
Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 758,600.15 Easting: 2,352,715.32



DSCN6310.JPG

#### Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 15-1348 US1 (south branch) and 15-1348 US2 (north branch)..

### **Location Map**



Inspection Date: 9/2/2	2009 Inspect	or: JCW	Flow De:	scription: Submer	ged, indetermina	ate Pre	vious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Suspect			Submerged	l in Water: Parti	ally	- Comby	
Notes: Significant grass	clippings in outfal	Il pipe.			inches: 16	4	AND E	
				Submerged in	Sediment: No			
Physical Indicators (Outfa	ll and Surroundin	ng Area)			inches: 0		XIII	
Outfall Damage	Corrosion	Peelin	ng Paint 🔲 :	Spalling/Cracking/0	Chipping			
Deposits/Stains	Oily	Paint	✓ Flow Lir	ne Dther:		71		V V V
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		1		2008 18 88
Abnormal Vegetation	Inhibited	Excessiv	/e				DSCN6311.J	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲	Floatables			
	Excessive	Algae	✓ Other: 0	Grass clippings				
Physical Indicators (In Flo	w, if outfall is flow	wing)						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					☐ Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: 15-1348 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 758,487.82 Easting: 2,352,527.55 09.01.2009 19:10

DSCN6328.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 281 ft WSW of outfall 15-1348 (south branch). Intermediate area consists of residential properties.

#### **Location Map**



Inspection	Date: 9/2/2	2009 Insp	ector: JCW	Flow Des	scription: Trick	de	Pre	evious Rainfall (hr	s): 72+
Illicit Disch	arge Potentia	: Unlikely			Submer	ged in Water: No			
Notes:						inches: 0			
					Submerged	I in Sediment: No	o		* * * * * * * * * * * * * * * * * * *
Physical Inc	dicators (Outfal	l and Surrour	nding Area)			inches: 0			
Outfall Da	mage	Corrosi	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking	ng/Chipping			
Deposits/S	Stains	Oily	Paint	☐ Flow Lin	e Other:			- TO	
Pipe Bentl	nic Growth	Brown	Orange	Green	Other:			N. T.	09 01 2009 10:10
Abnormal	Vegetation	Inhibite	d 🗌 Excessiv	ve			Edit Control	DSCN6329.	.JPG
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds [	Floatables			
		Excessi	ve Algae	Other:					
Physical Inc	dicators (In Flo	w, if outfall is	flowing)						
Odor:	None		Sewage	Sulfide	Rancid/So	our Petroleu	ım Other:		
Floatables:	None		Sewage	Suds	Petroleun	Other:			
Color:	None		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:	None					Gray	Other:		
Sampling R	<u>esults</u>								
Sample Loc	ation: Flow		Tota	l Chlorine (field	d): 0 ppn	n Phenol:		0 mg/L	
Sample ID:	09090	2-05		Chlorine (field	,	•	nts:	0 mg/L	
Time Collec	ted: 1050			l Copper (field) field):	): 0 ppr 7.98 unit		iture:	72 °F	

#### Outfall ID: 15-1348 US2

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Inlet

	Office Follow-up Required
Г	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 758,737.49 Easting: 2,352,538.64



DSCN6313.JPG

#### Outfall Notes:

Upstream manhole (inlet) located approx 316 ft NW of outfall 15-1348 north branch). Intermediate area consists of residential properties.

#### **Location Map**



Inspection Date: 9/2/2009 Inspecto	r: JCW Flow Description: Trickle	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Suspect	Submerged in Wate	r: No
Notes: Grass clippings in manhole and sur	rounding curb. inche	s: 0
	Submerged in Sedimen	nt: No
Physical Indicators (Outfall and Surrounding	Area) inche	s: 0
Outfall Damage Corrosion	☐ Peeling Paint ☐ Spalling/Cracking/Chipping	
Deposits/Stains Oily	Paint Flow Line Other:	
Pipe Benthic Growth Brown	Orange Green Other:	18:50 Table 18:50 Table 18:50 Table 18:50
Abnormal Vegetation  Inhibited	Excessive	DSCN6315.JPG
Poor Pool Quality Odors	Colors Oil Sheen Suds Floatable	es
Excessive A	lgae  Other: 0	
Physical Indicators (In Flow, if outfall is flow	ing)	
Odor: None	Sewage Sulfide Rancid/Sour Pet	troleum   Other:
Floatables: None	Sewage Suds Petroleum Oth	ner:
Color: None	Clear Brown Green Ora	ange Red Blue Yellow
Turbidity: None	☐ Gra	Other:
Sampling Results		
Sample Location: Flow	Total Chlorine (field): 0 ppm Phe	enol: 0 mg/L
Sample ID: 090902-10	Free Chlorine (field): 0 ppm Dete	ergents: 0 mg/L
Time Collected: 1100	Total Copper (field): 0 ppm	70.05
	pH (field): 7.67 units Ten	nperature: 72 °F

#### Outfall ID: 15-1889

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in):
Height (in): 29
Width (in): 45
Material: RCP
Shape: Elliptical

Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

Barrels:

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 754,426.15 Easting: 2,351,550.37



DSCN6384.JPG

#### Outfall Notes:

Outfall partially submerged. Upstream manhole could not be located, so sample was collected from pool at outfall.

#### **Location Map**



Inspection	Date: 9/2/2	2009 Insp	ector: JCW	Flow Desc	cription: Sul	merged, slight flo	w Pre	evious Rainfall (hrs)	: 72+
Illicit Disch	arge Potentia	l: Unlikely			Subme	rged in Water: P	artially 🎆		
Notes:						inches: 1	1		15
					Submerge	d in Sediment: P	artially		The Control of the Co
Physical Inc	dicators (Outfal	l and Surrour	nding Area)			inches: 7			AND
Outfall Da	mage	Corrosio	on 🗌 Peeli	ng Paint 🗌 S	palling/Crack	ing/Chipping			
Deposits/S	Stains	Oily	Paint	Flow Line	e 🗌 Other:			W. T.	51
Pipe Bentl	nic Growth	Brown	Orange	✓ Green	Other:				09.01.2009 23:04
Abnormal	Vegetation	Inhibited	d 🗌 Excessi	ve			7.00	DSCN6385.JI	PG
Poor Pool	Quality	Odors	Colors	Oil Sheer	n 🗌 Suds	Floatables			
		Excessi	ve Algae	Other:					
Physical Inc	dicators (In Flo	w, if outfall is	flowing)						
Odor:	None		Sewage	Sulfide	Rancid/S	Sour Petrole	um 🗌 Other:		
Floatables:	None		Sewage	Suds	Petroleu	m Other:			
Color:	None		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:	None					☐ Gray	Other:		
Sampling R	<u>esults</u>								
Sample Loc	ation: Pool		Tota	l Chlorine (field)	): 0 pp	m Phenol:		0 mg/L	
Sample ID:	09090	2-10L		Chlorine (field)		m Deterge	nts:	0 mg/L	
Time Collec	eted: 1505			ll Copper (field): field):	7.31 un		ature:	74 °F	

#### Outfall ID: 15-2243 **Location Map** NR 216 Classification: Major Outfall Structure: Closed Pipe Diameter (in): Height (in): Width (in): Material: Shape: Barrels: DSCN6599.JPG Office Follow-up Required ☐ Field Follow-up Required Outfall Notes: Damaged Outfall fully submerged and not physically located. Grafitti GPS coordinates approximate. Outfall screened □ Significant Erosion upstream at 15-2243 US1. Pipe info from MS4 map. **GPS Coordinates:** Northing: 753,500.05 2,355,495.72 Easting: Inspection Date: 9/8/2009 Inspector: JCW Flow Description: Submerged, indeterminate Previous Rainfall (hrs): 72+ Submerged in Water: Fully Illicit Discharge Potential: Unlikely inches: Notes: Submerged in Sediment: inches: Photo Not Available Physical Indicators (Outfall and Surrounding Area) **Submerged Outfall Outfall Damage** ☐ Peeling Paint ☐ Spalling/Cracking/Chipping Corrosion Deposits/Stains Oily Paint Flow Line Other: Pipe Benthic Growth Brown Orange Green Other: **Abnormal Vegetation** ☐ Inhibited ☐ Excessive \_Submerged.jpg **Poor Pool Quality** Odors Colors Oil Sheen Suds Floatables Excessive Algae Other:

Checked by: BDW 11/12/2009

Physical Indicators (In Flow, if outfall is flowing)

Sewage

Sewage

Clear

Sulfide

Suds

Brown

Odor:

Color:

Floatables:

**Turbidity:** 

Sampling Results

Sample Location: None

Petroleum

Green

Rancid/Sour Petroleum Other:

Other:

Orange

Gray

Red

Other:

Blue

Yellow

#### Outfall ID: 15-2243 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 753,505.15 Easting: 2,355,465.01



DSCN6600.JPG

#### Outfall Notes:

Upstream manhole located approx 31 ft WNW of outfall 15-2243. Intermediate area consists of county highway right-of-way.

#### **Location Map**



Inspection Date: 9/8/2009 Insp	pector: JCW Flow D	escription: Submer	ged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely		Submerged	I in Water: Fully	
Notes:			inches: 26	
		Submerged in	Sediment: No	
Physical Indicators (Outfall and Surrour	nding Area)		inches: 0	
Outfall Damage Corrosi	on Peeling Paint	Spalling/Cracking/0	Chipping	
Deposits/Stains Oily	Paint Flow L	ine  Other:		
Pipe Benthic Growth Brown	Orange Green	Other:		09 88 2009 10 52
Abnormal Vegetation  Inhibite	d Excessive		'	DSCN6601.JPG
Poor Pool Quality Odors	Colors Oil She	een 🗌 Suds 🔲	Floatables	
Excess	ive Algae			
Physical Indicators (In Flow, if outfall is	flowing)			
Odor:	Sewage Sulfide	Rancid/Sour	Petroleum Oth	ner:
Floatables:	Sewage Suds	Petroleum	Other:	
Color:	☐ Clear ☐ Brown	Green	Orange Re	d Blue Yellow
Turbidity:			Gray Oth	ner:
Sampling Results				
Sample Location: Pool	Total Chlorine (fie	eld): 0 ppm	Phenol:	0 mg/L
Sample ID: 090908-21	Free Chlorine (fie		Detergents:	0 mg/L
Time Collected: 1100	Total Copper (fiel pH (field):	d): 0 ppm 8.19 units	Temperature:	75 °F

#### City of Oshkosh Outfall ID: 15-2404 NR 216 Classification: Major Outfall Structure: Closed Pipe Diameter (in): Height (in): 28 Width (in): 44 Material: **RCP** Shape: Elliptical Barrels: Single 09.01.2009 23:58 DSCN6393.JPG Office Follow-up Required Field Follow-up Required Outfall Notes: Damaged ☐ Grafitti ☐ Significant Erosion GPS Coordinates:



Inspection Date: 9/2/2	2009 Inspector: JCW	Flow De	scription: None		Prev	ious Rainfall (hrs	): 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	in Water: No			C.85
Notes:				inches: 0			
			Submerged in				7
Physical Indicators (Outfall and Surrounding Area) inches: 0							
Outfall Damage	☐ Corrosion ☐ Peeli	ng Paint 🗌	Spalling/Cracking/C	Chipping			The Maria
Deposits/Stains	Oily Paint	☐ Flow Lir	ne 🗌 Other:		1	" Her	
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:		100	1	09.01.2009 23:56
Abnormal Vegetation	☐ Inhibited ☐ Excessi	ve				DSCN6394.	IPG
Poor Pool Quality	Odors Colors Excessive Algae	Oil She	en 🗌 Suds 🔲 I	Floatables			
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

Checked by: BDW 11/12/2009

Northing:

Easting:

746,706.34

2,354,377.72

# Outfall ID: 16-487

NR 216 Classification: Major Outfall

Structure: Closed Pipe

Diameter (in):
Height (in): 44
Width (in): 72
Material: CMP

Shape: Elliptical

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 742,528.23 Easting: 2,342,773.35



DSCN6843.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at 16-487 US1.

### **Location Map**



Inspection Date: 9/11/2	2009 Inspecto	r: JCW	Flow Des	cription: Submer	ged, slight flow	Prev	ious Rainfall (hrs	): 72+
Illicit Discharge Potential	: Unlikely			Submerged	in Water: Parti	ally		No. of the second
Notes:					inches: 34	交		
				Submerged in	Sediment: Parti	ally		
Physical Indicators (Outfall	l and Surrounding	<u>(Area)</u>			inches: 6			
Outfall Damage	Corrosion	Peelin	g Paint 🗌 S	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	✓ Flow Lin	e Dther:				
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:		y .	The same of the sa	60 () 200 (2016
Abnormal Vegetation	Inhibited	Excessiv	e				DSCN6844	IPG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
	Excessive A	lgae	Other: b					
Physical Indicators (In Flow	w, if outfall is flow	ing)						
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: None								

#### Outfall ID: 16-487 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 742,476.70 Easting: 2,342,708.01



DSCN6846.JPG

#### Outfall Notes:

Upstream manhole located approx 83 ft SW of outfall 16-487. Intermediate area consists of open space.

#### **Location Map**



Inspection Date: 9/11/2009 Inspector:	JCW Flow Description: Subm	erged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely	Submerg	ed in Water: Partially	
Notes:		inches: 31	
	Submerged	n Sediment: No	
Physical Indicators (Outfall and Surrounding Are	<u>a)</u>	inches: 0	
Outfall Damage	Peeling Paint	g/Chipping	Mar.
Deposits/Stains Oily Pa	int Flow Line Other:		
Pipe Benthic Growth Brown O	ange Green Other:		09.41/.2009 08:53
Abnormal Vegetation	cessive		DSCN6847.JPG
Poor Pool Quality Odors Co	olors	Floatables	
Excessive Algae	Other:		
Physical Indicators (In Flow, if outfall is flowing)			
Odor: Se	wage   Sulfide   Rancid/Sou	ır 🗌 Petroleum 🗌 Oth	er:
Floatables:	wage   Suds   Petroleum	Other:	
Color:	ar 🗌 Brown 🗌 Green	Orange Rec	Blue Yellow
Turbidity:		Gray Oth	er:
Sampling Results			
Sample Location: Pool	Total Chlorine (field): 0 ppm	Phenol:	0 mg/L
Sample ID: 090911-08	Free Chlorine (field): 0 ppm	Detergents:	0 mg/L
Time Collected: 0854	Total Copper (field): 0 ppm		
3331	pH (field): 8.13 units	Temperature:	71 °F

#### Outfall ID: 16-646

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 60
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

□ Damaged✓ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 741,861.75 Easting: 2,341,386.69



DSCN6581.JPG

Outfall Notes:

GPS position not available - under bridge. Coordinates from MS4 map.

#### **Location Map**



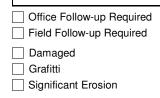
Inspection	Date: 9/8/2	2009 Inspe	ector: JCW	Flow Des	cription:	Trickle		Pre	evious Rainfall (h	nrs): 72+
Illicit Disch	arge Potentia	l: Unlikely			Sub	merged	in Water: No			THE RESERVE
Notes:							inches: 0	-		
					Subme	rged in	Sediment: No			
Physical Indicators (Outfall and Surrounding Area) inches: 0										
Outfall Damage										
Deposits/S	Stains	Oily	Paint	Flow Line	e 🗌 Oth	er:				
Pipe Benth	nic Growth	Brown	Orange	Green	Oth	er:			B. A.Y	09 96 2009 00 56
Abnormal	Vegetation	Inhibited	I Excessiv	ve					DSCN658	32.JPG
Poor Pool	Quality	Odors	Colors	Oil Shee	n 🗌 Suc	ds 🗌 F	Floatables			
		Excessive	ve Algae	Other:						
Physical Inc	licators (In Flo	w, if outfall is i	flowing)							
Odor:	None		Sewage	Sulfide	Ranc	id/Sour	Petroleun	n Other:		
Floatables:	None		Sewage	Suds	☐ Petro	leum	Other:			
Color:	None		Clear	Brown	Gree	n	Orange	Red	Blue	Yellow
Turbidity:	None						Gray	Other:		
Sampling Re	esults									
Sample Loc			Tota	I Chlorine (field	): 0	ppm	Phenol:		0 mg/L	
Sample ID:	09090	8-01	Free	Chlorine (field)	: 0	ppm	Detergent	s:	0 mg/L	
Time Collect	ted: 0910			Copper (field):		ppm				
			pH (	field):	8.46	units	Temperati	ıre:	67 °F	

#### Outfall ID: 16-794

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 2
Top Width (ft): 8
Bot. Width (ft): 0
Material: Grass

Shape: Parabolic



GPS Coordinates:

Northing: 745,437.24

Easting: 2,341,042.44



DSCN6590.JPG

#### Outfall Notes:

Swale from US HWY 41 corridor into Lake Butte des Mortes (west side of highway). Outfall partially submerged. Outfall screened upstream at SW-01 LIS1

#### **Location Map**



Inspection Date: 9/8/2	2009 Inspector: JCW	Flow Desc	ription: Submer	ged, indetermina	te Pre	evious Rainfall (hrs	): 72+
Illicit Discharge Potentia	l: Unlikely		Submerged	in Water: Partia	ally	NAME OF BUILDING	別學學
Notes:				inches: 7	Storage.		The Sale
			Submerged in S		£	A BULLON	The state of
Physical Indicators (Outfai	ll and Surrounding Area)			inches: 0			
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Sp	oalling/Cracking/C	Chipping		1100	KI MARIN
Deposits/Stains	Oily Paint	☐ Flow Line	Other:				ALC: NO THE REAL PROPERTY.
Pipe Benthic Growth	☐ Brown ☐ Orange	Green	Other:		Sec. 3	THE WAY	08.08.2009 08.89
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6591.J	PG
Poor Pool Quality	Odors Colors Excessive Algae	Oil Sheen Other:	Suds F	Floatables			
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

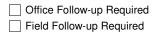
#### Outfall ID: 16-794 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Open Channel
Depth (ft): 2
Top Width (ft): 8
Bot. Width (ft): 0
Material: Grass

Shape: Parabolic



DamagedGrafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 745,379.33 Easting: 2,341,065.87

DSCN6586.JPG

#### Outfall Notes:

Swale from US HWY 41 corridor into Lake Butte des Mortes (west side of highway). Upstream sample located approx 62 ft S of outfall SW-01. Intermediate area consists of highway right-of-way.

#### **Location Map**



Inspection Date: 9/8/2	2009 Inspe	ctor: JCW	Flow De	scription: None		Previo	ous Rainfall (hrs):	: 72+
Illicit Discharge Potential	l: Unlikely			Submerged	in Water: No		XXX	
Notes:					inches: 0		NO TO	
				Submerged in				
Physical Indicators (Outfall	l and Surround	<u>ling Area)</u>			inches: 0			
Outfall Damage	Corrosion	n 🗌 Peelir	ng Paint 🔲	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lir	ne   Other:				
Pipe Benthic Growth	Brown	Orange	Green	Other:			A CONTRACTOR	
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6588.JF	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 I	Floatables			
	Excessive	e Algae	Other:					
Physical Indicators (In Flow	w, if outfall is flo	<u>owing)</u>						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: 16-800

NR 216 Classification: Major Outfall

Structure: Open Channel
Depth (ft): 2
Top Width (ft): 10
Bot. Width (ft): 0
Material: Grass

Shape: Parabolic

	ow-up Required w-up Required
Damaged Grafitti Significant	Erosion
GPS Coordina	ates:
Northing:	745,518.46

Northing: 745,518.46 Easting: 2,341,219.67



DSCN6596.JPG

#### Outfall Notes:

Swale from US HWY 41 corridor into Lake Butte des Mortes (east side of highway). Outfall partially submerged. Outfall screened upstream at SW-02 LIS1

#### **Location Map**



Inspection Date: 9/8/2	2009 Inspe	ctor: JCW	Flow Des	scription: Submer	ged, indetermina	ate Pre	vious Rainfall (hrs)	: 72+
Illicit Discharge Potentia	I: Unlikely			Submerged	l in Water: Parti	ally	1-4	1
Notes:					inches: 13			
				Submerged in	Sediment: No		1	
Physical Indicators (Outfai	ll and Surround	<u>ling Area)</u>			inches: 0		11/11	
Outfall Damage	Corrosior	n 🗌 Peelir	ng Paint 🔲 🥄	Spalling/Cracking/0	Chipping			
Deposits/Stains	Oily	☐ Paint	Flow Lin	ne 🗌 Other:		e Carlo		
Pipe Benthic Growth	Brown	Orange	Green	Other:		2		01 00/2101 TO 14
Abnormal Vegetation	Inhibited	Excessiv	ve				DSCN6597.J	PG
Poor Pool Quality	Odors	☐ Colors	Oil Shee	en 🗌 Suds 📗	Floatables			
	Excessive	e Algae	Other:					
Physical Indicators (In Flo	w, if outfall is fl	<u>owing)</u>						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: 16-800 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Open Channel

Depth (ft): 2

Top Width (ft): 10

Bot. Width (ft): 0

Material: Grass

Shape: Parabolic

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 745,188.26 Easting: 2,341,264.32



DSCN6593.JPG

#### Outfall Notes:

Swale from US HWY 41 corridor into Lake Butte des Mortes (east side of highway). Upstream sample located approx 333 ft S of outfall SW-02. Intermediate area consists of highway right-of-way and golf course property.

#### **Location Map**



Inspection Date: 9/8/2	2009 Inspector:	JCW F	Flow Descrip	tion: None		Previo	us Rainfall (hrs):	72+
Illicit Discharge Potentia	l: Unlikely			Submerged i	in Water: No			
Notes:					inches: 0			
			(	Submerged in S				
Physical Indicators (Outfai	ll and Surrounding A	<u> Irea)</u>			inches: 0			
Outfall Damage	Corrosion [	Peeling Pair	nt 🗌 Spall	ling/Cracking/Cl	hipping	All in		11/24
Deposits/Stains	Oily	Paint	Flow Line [	Other:				1
Pipe Benthic Growth	Brown	Orange	Green [	Other:				
Abnormal Vegetation	Inhibited	Excessive					DSCN6594.JP	3
Poor Pool Quality	Odors	Colors	Oil Sheen [	Suds F	loatables			
	Excessive Alg	ae 🗌	Other:					
Physical Indicators (In Flo	w, if outfall is flowing	<u>g)</u>						
Odor:		Sewage 🗌 S	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage 🗌 S	Suds	Petroleum	Other:			
Color:		Clear 🗌 E	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

# Outfall ID: 16-1200

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):

Material: RCP

Shape: Circular

Barrels: Single

Office Follow-up Required
☐ Field Follow-up Required

Damaged

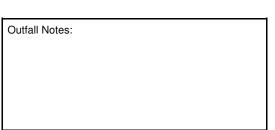
☐ Grafitti
☐ Significant Erosion

GPS Coordinates:

Northing: 743,780.89 Easting: 2,339,935.13



DSCN6578.JPG



#### **Location Map**



Inspection Date: 9/8/2	2009 Inspector: JCW	Flow De	escription: None		Prev	ious Rainfall (hrs	s): 72+
Illicit Discharge Potentia	I: Unlikely		Submerged	in Water: No			
Notes:				inches: 0			
			Submerged in	Sediment: No inches: 0			The state of
Physical Indicators (Outfal	ll and Surrounding Area)			iliciles. 0		Sh-	
Outfall Damage	Corrosion Pee	ling Paint	Spalling/Cracking/0	Chipping			-
Deposits/Stains	Oily Paint	☐ Flow Li	ne 🗌 Other:		- 50		
Pipe Benthic Growth	☐ Brown ☐ Orang	e 🗌 Green	Other:				09.08.2009 08:33
Abnormal Vegetation	☐ Inhibited ☐ Exces	sive				DSCN6579.	JPG
Poor Pool Quality	Odors Colors Excessive Algae	Oil She	en Suds I	Floatables			
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	☐ Sewag	e Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	☐ Sewage	e Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

# Outfall ID: 16-1204 NR 216 Classification:

Major Outfall

Structure: Closed Pipe
Diameter (in): 24
Height (in):
Width (in):
Material: RCP

Circular

Barrels: Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

Shape:

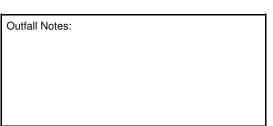
☐ Significant Erosion

GPS Coordinates:

Northing: 743,728.44 Easting: 2,339,941.72



DSCN6575.JPG



#### **Location Map**



Inspection	Date: 9/8/2	2009 Insp	ector: JCW	Flow Des	scription: None		Pre	vious Rainfall (hrs)	): 72+
-	arge Potentia	•			•	in Water: No	7		
Notes:						inches: 0			
					Submerged in				
Physical Ind	licators (Outfal	l and Surroun	<u>ding Area)</u>			inches: 0			
Outfall Dar	mage	Corrosio	on 🗌 Peelir	ng Paint 🗌 S	Spalling/Cracking/C	Chipping			1000
Deposits/S	Stains	Oily	Paint	☐ Flow Lin	ie 🗸 Other: Dar	k riprap downstr	e 💹		
Pipe Benth	nic Growth	Brown	Orange	Green	Other:				09.08.2009 08:32
Abnormal	Vegetation	Inhibited	Excessive	ve				DSCN6576.J	IPG
Poor Pool	Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
		Excessi	ve Algae	Other:					
Physical Ind	licators (In Flo	w, if outfall is	flowing)						
Odor:			Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:			Sewage	Suds	Petroleum	Other:			
Color:			Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:						Gray	Other:		
Sampling Re	<u>esults</u>								
Sample Loc	ation: None								

#### Outfall ID: Canal\_a

NR 216 Classification: Major Outfall

Structure:	Manhole

Office Follow-up Required
Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

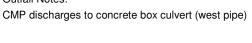
GPS Coordinates:

Northing: 738,559.72 Easting: 2,346,024.81



DSCN6839.JPG

Outfall Notes:



#### **Location Map**



Inspection Date: 9/11/2009 Inspec	ector: JCW Flow Descrip	tion: Submerged, indeterminate	Previous Rainfall (hrs): 72+
Illicit Discharge Potential: Unlikely		Submerged in Water: Partially	
Notes: Sample collected from pool near		inches: 15	
	•	Submerged in Sediment: No	
Physical Indicators (Outfall and Surround	<u>ding Area)</u>	inches: 0	
Outfall Damage	n 🗌 Peeling Paint 🗌 Spal	ling/Cracking/Chipping	
Deposits/Stains Oily	Paint Flow Line	Other:	
Pipe Benthic Growth Brown	Orange Green	Other:	do 11 Janes de 195
Abnormal Vegetation  Inhibited	Excessive		DSCN6840.JPG
Poor Pool Quality Odors	Oil Sheen	Suds Floatables	
Excessiv	ve Algae		
Physical Indicators (In Flow, if outfall is f.	flowing)		
Odor:	Sewage Sulfide	Rancid/Sour Petroleum	Other:
Floatables:	Sewage Suds	Petroleum Other:	
Color:	Clear Brown	Green Orange	Red Blue Yellow
Turbidity:		☐ Gray	Other:
Sampling Results			
Sample Location: Pool	Total Chlorine (field):	0 ppm Phenol:	0 mg/L
Sample ID: 090911-63	Free Chlorine (field):	0 ppm Detergents:	0 mg/L
Time Collected: 0815	Total Copper (field):	0 ppm	
	pH (field):	8.52 units Temperature:	69 °F

#### Outfall ID: Canal\_b

NR 216 Classification: Major Outfall

Structure:	Manhole
Office Foll	ow-up Required

Office Follow-up Required
☐ Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

Northing: 738,553.77 Easting: 2,346,029.55



DSCN6839.JPG

Outfall Notes: CMP discharges to concrete box culvert (east pipe)

#### **Location Map**



Inspection Date: 9/11/200	09 Inspector: JCW	Flow Descripti	on: Submerç	ged, indeterminate	Previous Rainfall (hrs):	: 72+
Illicit Discharge Potential:	Unlikely		Submerged	in Water: Partially		War free free free free free free free fr
Notes: Sample collected fro	om pool near east pipe.			inches: 16		
·		S	ubmerged in S	Sediment: No		
Physical Indicators (Outfall a	and Surrounding Area)			inches: 0		All 16
Outfall Damage	Corrosion Peeli	ng Paint 🗌 Spallir	ng/Cracking/C	hipping		r Militar
Deposits/Stains	Oily Paint	Flow Line	Other:			
Pipe Benthic Growth	Brown Drange	Green	Other:			60 77 XC09 05 15
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive			DSCN6841.JF	PG
Poor Pool Quality	Odors Colors	Oil Sheen	Suds F	Floatables		
[	Excessive Algae	Other:				
Physical Indicators (In Flow,	if outfall is flowing)					
Odor:	☐ Sewage	Sulfide	Rancid/Sour	Petroleum C	Other:	
Floatables:	☐ Sewage	Suds	Petroleum	Other:		
Color:	☐ Clear	Brown	Green	Orange R	led Blue	Yellow
Turbidity:				Gray C	Other:	
Sampling Results						
Sample Location: Pool	Tota	al Chlorine (field):	0 ppm	Phenol:	0 mg/L	
Sample ID: 090911-	20	e Chlorine (field):	0 ppm	Detergents:	0 mg/L	
Time Collected: 0820		al Copper (field): (field):	0 ppm 8.49 units	Temperature:	7 °F	

#### Outfall ID: FernauPond

NR 216 Classification: Major Outfall

Structure: Closed Pipe
Diameter (in): 18
Height (in):
Width (in):
Material: PVC
Shape: Circular

7 - ...

Single

Office Follow-up RequiredField Follow-up Required

DamagedGrafitti

Barrels:

☐ Significant Erosion

GPS Coordinates:

Northing: 752,765.12 Easting: 2,348,355.34



DSCN6297.JPG

Outfall Notes:
Outlet from stormwater pond south of W. Fernau Ave.





Inspection Date: 9/2/2	2009 Inspector	: JCW	Flow Des	scription: None		Previo	ous Rainfall (hrs)	: 72+
Illicit Discharge Potentia	l: Unlikely			Submerged	in Water: No	65		
Notes:					inches: 0			
				Submerged in			1113	
Physical Indicators (Outfai	ll and Surrounding	<u>Area)</u>			inches: 0			
Outfall Damage	Corrosion	Peelin	ng Paint 🗌 S	Spalling/Cracking/C	Chipping			
Deposits/Stains	Oily	Paint	☐ Flow Lin	e Other:				
Pipe Benthic Growth	Brown	Orange	✓ Green	Other:				100 cm 2 16/26
Abnormal Vegetation	Inhibited	] Excessiv	/e				DSCN6298.J	PG
Poor Pool Quality	Odors	Colors	Oil Shee	en 🗌 Suds 🔲 F	Floatables			
	Excessive Al	gae	Other:					
Physical Indicators (In Flo	w, if outfall is flowin	<u>ng)</u>						
Odor:		Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:		Sewage	Suds	Petroleum	Other:			
Color:		Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:					Gray	Other:		
Sampling Results								
Sample Location: None								

#### Outfall ID: OSH-9424

NR 216 Classification: Major Outfall

Structure: Closed Pipe Diameter (in): 54 Height (in): Width (in): Material: **RCP** 

Shape: Circular

Barrels: Single

Office Follow-up Required Field Follow-up Required

Damaged ☐ Grafitti

☐ Significant Erosion

GPS Coordinates:

737,919.92 Northing: Easting: 2,351,829.86



DSCN6714.JPG

Outfall Notes:

Outfall partially submerged. Outfall screened upstream at OSH--9424 US1.

# **Location Map**



Inspection Date: 9/9/2	2009 Inspector: JCW	Flow Descript	tion: Submerç	ged, indetermina	ate Previ	ous Rainfall (hrs	): 72+
Illicit Discharge Potentia	l: Suspect		Submerged	in Water: Fully			
Notes:				inches: 56			
		\$	Submerged in S				
Physical Indicators (Outfai	ll and Surrounding Area)			inches:			
Outfall Damage	Corrosion Peel	ing Paint 🗌 Spall	ing/Cracking/C	Chipping		300	
Deposits/Stains	Oily Paint	Flow Line	Other:		4		
Pipe Benthic Growth	☐ Brown ☐ Orange	e Green	Other:				69,09,2009 11(9)
Abnormal Vegetation	☐ Inhibited ☐ Excess	ive				DSCN6715.J	IPG
Poor Pool Quality	Odors Colors	Oil Sheen	Suds F	Floatables			
	Excessive Algae	Other:					
Physical Indicators (In Flo	w, if outfall is flowing)						
Odor:	Sewage	Sulfide	Rancid/Sour	Petroleum	Other:		
Floatables:	Sewage	Suds	Petroleum	Other:			
Color:	☐ Clear	Brown	Green	Orange	Red	Blue	Yellow
Turbidity:				Gray	Other:		
Sampling Results							
Sample Location: None							

#### Outfall ID: OSH-9424 US1

NR 216 Classification:

Major Outfall - Alternate Location

Structure: Manhole

		Office Follow-up Required
Г	٦	Field Follow-up Required

☐ Damaged☐ Grafitti

☐ Significant Erosion

**GPS Coordinates:** 

Northing: 737,948.07 Easting: 2,351,830.85



DSCN6717.JPG

#### Outfall Notes:

Upstream manhole located approx 28 ft N of outfall OSH--9424. Intermediate area consists of rip-rap shoreline.

#### **Location Map**



Inspection	Date: 9/9/	<b>2009</b> Insp	ector: JCV	V Flow Des	scription:	Submer	ged, indetermina	ate Pre	evious Rainfall (hrs)	: 72+		
Illicit Disch	arge Potentia	l: Suspect			Su	bmerged	in Water: Fully	- 3	Jan Jan			
Notes: Abnormal deterge				s). Significant			inches: 61	N	1	41		
floa	itables in mani	hole. Brown color.			Subm	submerged in Sediment: No				1 1		
Physical Indicators (Outfall and Surrounding Area)							inches: 0		一			
Outfall Damage Cor			on 🗌 Pe	eling Paint 🔲 🤅	Spalling/C	racking/C	Chipping					
Deposits/Stains		Oily	Paint	☐ Flow Lin	ne 🗌 Ot	her:						
Pipe Benthic Growth		Brown	Oran	ge 🗌 Green	Ot	her:				09.09.2009 11:25		
Abnormal Vegetation		Inhibited	Exces	ssive					DSCN6718.J	PG		
Poor Pool Quality		Odors	✓ Color	S Oil Shee	en 🗌 Su	ıds 🗸 F	Floatables					
		Excessiv	ve Algae	Other:								
Physical Indicators (In Flow, if outfall is flowing)												
Odor:			Sewaç	e Sulfide	☐ Ran	cid/Sour	Petroleum	Other:				
Floatables:			Sewag	e Suds	Petr	oleum	Other:					
Color:			Clear	Brown	Gre	en	Orange	Red	Blue	Yellow		
Turbidity:							Gray	Other:				
Sampling Results												
Sample Location: Pool			To	otal Chlorine (field	d): (	) ppm	Phenol:		0 mg/L			
Sample ID: 09		909-57 F		ee Chlorine (field	d): (	) ppm	Detergents		0 mg/L			
Time Collec	ted: 1130			Total Copper (field):		) ppm	_					
				pH (field):		3 units	Temperatu	re:	78 °F			

# Appendix C

Illicit Discharge Drainage Area Outfall C3-03

