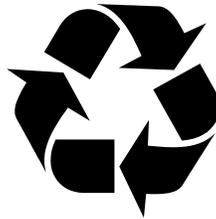


GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER  
ASSOCIATED  
WITH  
INDUSTRIAL ACTIVITY



STORMWATER POLLUTION PREVENTION PLAN  
FOR THE  
RECYCLING CENTER  
185 Johnson Street  
(Revised May 2011)



CITY of MIDDLETOWN  
CONNECTICUT

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## A. Site Description

This site is located at 185 Johnson Street, (72°-39'-40" W, 41°24'-25" N). It is bounded on the north and east by the Mattabasset River, on the west by the Coginchaug River, and on the south by railroad tracks. There are four structures on the site. One is the scale house and accompanying scale, another is a storage building used to store equipment and to contain the refrigerators and air conditioners. The third is a "Swap Shack" for re-using old items, and the fourth is a canopy over the waste oil and antifreeze containers. There is an area to the west for brush chipping, an area for bulky waste, another area for papers/plastics/glass. There are several other containers to the east for electronic equipment, sneakers, and cardboard. A portion of the area is paved. There is a catch basin near the front which catches runoff from the scale area. This runoff is routed to a swale along the east side of the site. There is another swale to the south which catches runoff from the main area. This swale outlets to the west into the Coginchaug River.

## B. General Location Map

A section of the U.S. geological Survey quadrangle map showing the site is located in Appendix A

## C. Pollution Prevention Team

The SPPP (Stormwater Pollution Prevention Plan) leader for the facility is the **Director of Public Works**. The leader's responsibilities include:

- Create a SPP team to aid in the implementation of the SPPP;
- Oversee the implementation the SPPP plan;

The team coordinator is the **City Engineer**. The coordinator's duties include the following:

- Oversee the implementation the SPPP plan;
- Oversee inspection and monitoring activities;
- Modify the plan as needed;
- Identify any deficiencies in the SPPP and make sure they are corrected;
- Ensure that any changes in facility operation are addressed in the SPPP.

The additional members of the PPT are:

The **Superintendent of Streets and Sanitation and his assistant**, whose duties include monitoring the housekeeping procedures, maintenance practices, and training sessions for City Yard personnel.

The **Recycling Coordinator**, whose duties include monitoring the site to ensure all recyclable materials are handled and stored according to the plan, and to notify the Superintendent of Streets and Sanitation if additional work is required to clean up the area or store and cover materials.

## D. Potential Pollutant Sources

### i. Site Map

The plan in Appendix A shows the drainage areas and direction of flow to the outfall. The entire site sheet flows to the adjacent streams, except for the paved area at the entrance. That area drains to a catch basin. The outlet to this system is across the fence at a swale that leads to the river. Water quality tests are taken at this outfall and at the swale to the south. The drainage system will be modified as follows: The catch basin will be eliminated. The paved area in the vicinity of the scale will be graded to flow into a grass lined swale along the easterly fence. The swale will have stone check dams and a level spreader at the outfall. Another swale will be constructed along the railroad and outlet to the west. The water in both swales will be tested at their outfalls.

### ii. Inventory of Exposed Materials

The only exposed materials at this site are brush and bulky waste material. We have just built a storage building which will house the refrigerators and air conditioners. The brush is chipped when the pile is sufficiently large enough to bring in a chipper. The wood chips are then given away or used by the City at various locations. All other material is regularly trucked away in accordance with our permit. We are currently designing a structure to cover the bulky waste material.

### iii. Summary of Potential Pollution Sources (See Map in Appendix B)

See Appendix B for a list of all potential pollutants.

### iv. Spills and Leaks: A list of all spills and leaks over 5 gallons is located in Appendix C.

## E. Control Measures

### 1. Good Housekeeping

Good housekeeping is the way of life at the Recycling Center. Waste oil tank is emptied when necessary. Any spills or leaks of any toxic substances or potential pollutants are cleaned up and disposed of immediately. We are purchasing spill containment materials to be stored in our new garage on site. The Superintendent and his assistant regularly inspect all areas of the Recycling Center and immediately rectify any problems. Paved area is swept and catch basin is cleaned out on a regular basis. We contract with Connecticut Oil Recycling Services to remove waste oil, antifreeze, and oil filters on an as needed basis.

### 2. Vehicle or Equipment Washing

There is no vehicle washing at this site.

### 3. Floor Drains

There are no floor drains in any building on site.

### 4. Roof Areas

The roof of the scale house sheets to the pavement. The roof of the new vehicle storage building sheets to an area where we will be building a grass lined swale. Neither roof contains anything that would create any type of pollution.

#### 5. Minimize Exposure

A storage building has just been built which houses the equipment and the air conditioners and refrigerators. Plans have been drawn up to enclose the bulky waste material. Personnel on site daily clean up any debris that is out of place.

#### 6. Sediment & Erosion Control

The upper area of the site is a closed landfill. This area has been vegetated for years and does not have an erosion problem. However, periodic inspections are made to monitor any changes. The lower area of the site is the area where recycled material is stored prior to removal. The active areas have been paved. The area is graded very flat and runoff sheet flows off the site without any concentrated flows. Again, regular inspections will identify any erosion occurrences and will be dealt with accordingly.

#### 7. Management of Runoff

Management of runoff is an ongoing practice at the Recycling Center. The catch basin sumps are cleaned on a regular basis, the paved areas are swept regularly. The proposed plans are to have all of the runoff drain to two swales which terminate in level spreaders.

#### 8. Preventive Maintenance

We are purchasing spill containment materials to be stored in our new garage on site. The Superintendent and his assistant regularly inspect all areas of the Recycling Center and immediately rectify any problems. The paved area is swept and catch basins are cleaned out on a regular basis. Weekly inspection reports are filled out and any outstanding items will be listed in the reports and addressed immediately. Waste oil and antifreeze tanks will be cleaned and pumped as needed.

#### 9. Spill Prevention and Response Procedures

Small spills or leaks are treated with sand, then cleaned up and put in a container. Authorized disposal contractors are then called in to remove the contaminated material. We will be purchasing spill containment materials to be stored in our garage on site. Total Recycling Services and Connecticut Waste Oil have been used in the past to remove contaminated material. If there is a large spill, the Fire Department is notified and responds in minutes with their spill containment equipment.

## 10. Employee Training

Employees will be shown a video presentation on Good Housekeeping and Stormwater Quality. Additional training will be provided by supervisors with specific focus on their own specialties.

## 11. Non-Stormwater Discharges

There are no non-stormwater discharges at this site.

## 12. Solid De-icing Material Storage

There is no salt storage at this site.

## F. Non-Stormwater Discharge Certification

"I certify that in my professional judgment, the discharge from the site consists only of stormwater, or of stormwater combined only with groundwater seepage and/or wastewater covered by an effective permit issued under Section 22a-430 or Section 22a-430b of the Connecticut General Statutes, including the provisions of this general permit, or of stormwater combined with any of the following discharges provided that they do not contribute to a violation of water quality standards:

- landscape irrigation or lawn watering;
- uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains;
- discharges of uncontaminated air conditioner or refrigeration condensate;
- water sprayed for dust control or at a truck load wet-down station;
- naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs and flows from riparian habitats and wetlands.

This certification is based on testing and evaluation of the stormwater discharge from the site. I further certify that all potential sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test have been described in detail in the stormwater pollution prevention plan prepared for the site. I further certify that no interior building floor drains exist which are connected to any storm drainage system or which may otherwise direct interior floor drainage to exterior surfaces, unless such floor drain connection has been approved and permitted by the Commissioner or otherwise authorized by a local authority for discharge as domestic sewage to sanitary sewer. I am aware that there may be significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

---

Thomas Nigosanti, P.E., City Engineer, City of Middletown, CT

#### G. MS4 Compliance

There are two drainage swales that accommodate the entire active area of the recycling Center. One swale outlets to the Coginchaug River, the other outlets to the Mattabasset River. Water quality testing has been done in the past and will continue in the future in these areas.

#### H. Consistency with Other Plans and Permits

The other permits applicable to this site are:

- Permit to Operate #0830853-PO, exp. 3/27/2014
- Stormwater Associated with Industrial Activities Permit, Permit # GSI001140, exp October 1, 2010

#### I. Future Construction

Any future modifications to the site will comply with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (as amended). All construction activities shall comply with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control during construction and the 2004 Connecticut Stormwater Quality Manual for the design and implementation of post-construction stormwater management measures. In addition, the use of copper or galvanized construction materials will be avoided whenever possible.

We are planning to construct a vegetative swale along the railroad tracks that will lead to a rip-rap level spreader. We also plan to remove the catch basins and regrade the paved area to drain to another grass lined swale. Both swales will be tested for water quality. We also plan to fabricate covers for all of the roll-off containers. The last planned improvement is to construct a covered structure to enclose the bulky waste area.

#### J. Monitoring Program

Stormwater quality monitoring will be conducted as required by the permit. All parameters will be tested each time. There is currently one (1) catch basins and one (1) swale tested each year. Appendix D contains the water quality test results.

The Superintendent and his Assistant will conduct visual inspections on a weekly basis. Inspection reports will be filled out each week and stored on site for one (1) year. After one (1) year, the reports will be collected and stored at the Public Works Department for an additional four (4) years. Weekly report form is included in Appendix F

An end of year report will be made summarizing the weekly inspections, any actions taken, and any modifications to the plan. This report will be kept with the plan for five (5) years.

#### K. Schedules and Procedures

Stormwater sampling and reporting (SMR) will be performed by a licensed testing lab. Bi-annual bids will be solicited for this work. The results will be sent to Public Works Engineering for filing. The Engineering department will also send the results to the DEP.

Semi-annual monitoring shall be conducted for the parameters listed below:

- Chemical Oxygen Demand (mg/l)
- Total Oil and Grease (mg/l)
- pH (S.U.) of the discharge and of uncontaminated rainfall
- Total Suspended Solids (mg/l)
- Total Phosphorus (mg/l)
- Total Kjeldahl Nitrogen (mg/l)
- Nitrate as Nitrogen (mg/l)
- Total Copper (mg/l)
- Total Lead (mg/l)
- Total Zinc (mg/l)
- Aquatic Toxicity

Test results will be compared with the following benchmarks:

PARAMETER	UNITS	LEVEL
Total Oil and Grease	mg/L	5
Chemical Oxygen Demand	mg/L	75
Sample pH	S.U.	5-9
Total Suspended Solids	mg/L	90
Total Phosphorous	mg/L	0.40
Total Kjeldahl Nitrogen	mg/L	2.30
Nitrate as Nitrogen	mg/L	1.10
Total Copper	mg/L	0.059
Total Lead	mg/L	0.076
Total Zinc	mg/L	0.160

When test results exceed the benchmark values, the situation will be evaluated, and changes made as necessary.

## Engineering Certification

"I certify that I have thoroughly and completely reviewed the stormwater pollution prevention plan prepared for this site. I further certify, based on such review and site visit by myself or my agent, and on my professional judgment, that the Stormwater Pollution Prevention Plan meets the criteria set forth in the General Permit for the Discharge of Stormwater Associated With Industrial Activity effective on October 1, 2011. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

---

Thomas Nigosanti, P.E., City Engineer, City of Middletown, CT

## Signature of Registrant

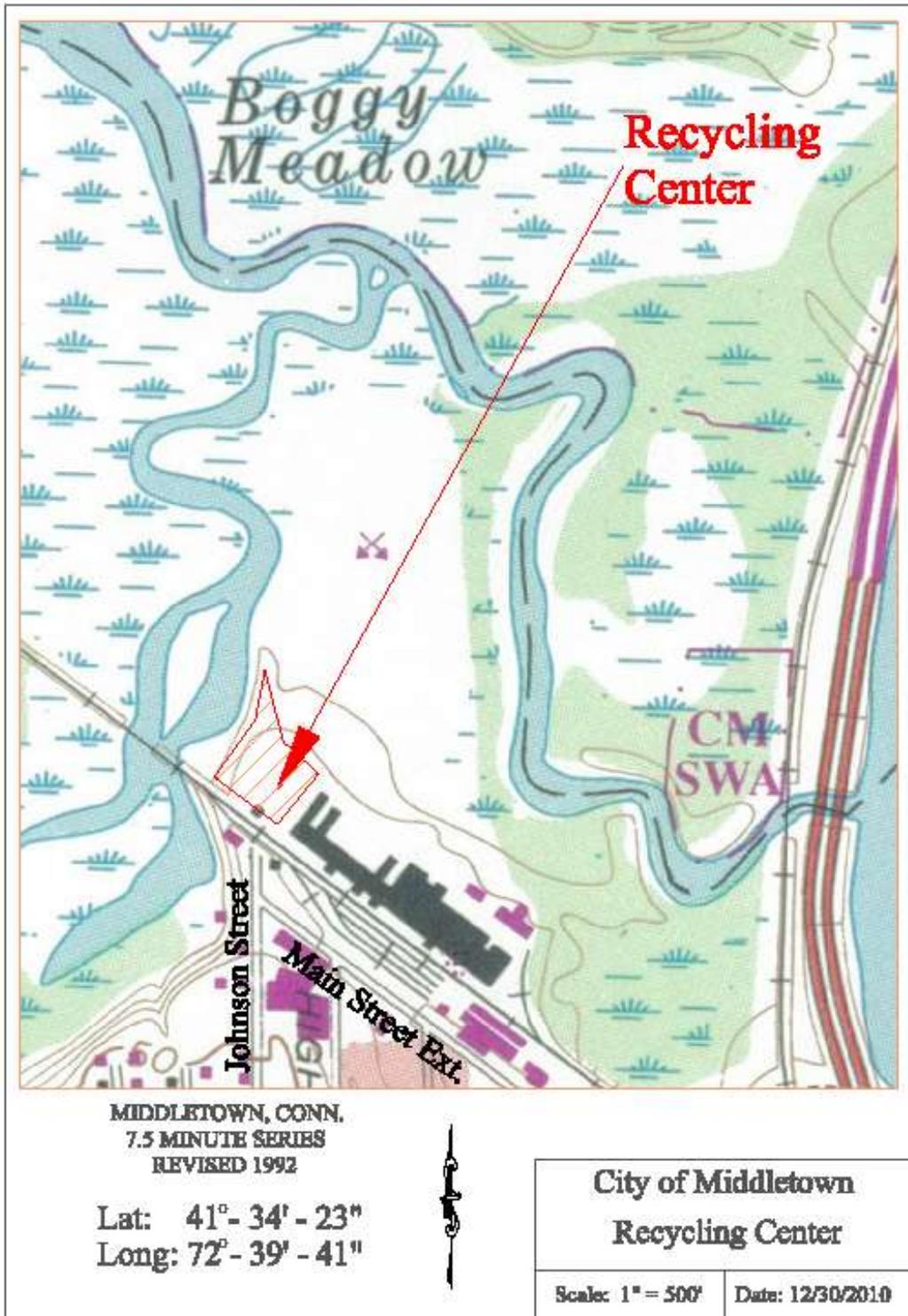
"I certify under penalty of law that I have read and understand all conditions of the General Permit for the Discharge of Stormwater Associated with Industrial Activity effective on October 1, 2011, and that all conditions for eligibility for coverage under this general permit are met. This document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained in this registration is, to the best of my knowledge and belief; true, accurate and complete. I am aware that there are penalties for submitting false information, including the possibility of fine and imprisonment for knowingly making false statements."

---

William Russo, Director of Public Works

## Appendix A: Maps

# Recycling Center Quad Location Plan





## Appendix B:

### Inventory of Exposed Materials & List of Possible Pollutants

The following is a list of all the potential pollutant sources, and the types of pollutants.

**Trade Name**

**Storm Water Pollutants**

Antifreeze/coolant

Ethylene Glycol, Propylene Glycol, Heavy Metals (Copper, Lead, Zinc)

Motor oil

Mineral Oil, Petroleum Distillates

Car batteries

Arsenic, Lead Sulfate, Sulfuric Acid

Gasoline

Benzene, Ethyl Benzene, Toluene, Xylene, MTBE

Salt

Sodium Chloride

Used Tires

Carbon Black, Sulfur, Oil, Grease

CFC Appliances

Ammonia, Methane, Sulfur Dioxide

Scrap Metal

Aluminum, Copper, Iron, Zinc

Propane Tanks

Propane



## Appendix C: Spill & Leak Record

The following is a list of the spills or leaks of greater than 5 gallons. The listing includes the date, material, and description of event.

<u>Date</u>	<u>Material</u>	<u>Description</u>
-------------	-----------------	--------------------

## Appendix D: Registration Certificate

# Recycling Center Registration Certificate



STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Division of Water Protection & Pollution Control  
Water Planning & Standards Division  
79 Elm Street  
Hartford, CT 06106-5127  
www.ct.gov/dep

## Certificate of Registration

Issued To

CITY OF MIDDLETOWN

For

Stormwater Associated With Industrial Activities

### General Permit

Gina McCarthy  
Commissioner

**Facility Information:**

MIDDLETOWN RECYCLING CTR & TRANSFER  
STATION  
JOHNSON STREET & NORTH MAIN STREET  
MIDDLETOWN, CT 06457

**Permit No:** GS1001140

**Application No:** 200901356

**Issue Date:** 5/18/2009

**Expiration Date:** 10/1/2010

**Water Location No:** 083 - 104

## Appendix E: Sample Inspection Report

**GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY**  
**SITE INSPECTION REPORT - RECYCLING CENTER, Johnson Street**

DATE:

TIME:

**STORMWATER DISCHARGE**

<b><u>CB#1</u></b>	Is grate clear and free of debris?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Does sump need to be pumped out?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Does CB insert need to be replaced?	Y <input type="checkbox"/>	N <input type="checkbox"/>
<b><u>Railroad Swale</u></b>	Is swale free of debris?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Does silt need to be removed from swale?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Is there any erosion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>
<b><u>East Side Swale</u></b>	Is swale free of debris?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Does silt need to be removed from swale?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Is there any erosion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>

Comments:

**MATERIALS HANDLING AREA**

<b><u>Roll Off Area:</u></b>	Are roll-offs covered when not in use?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Is debris picked up in a timely manner?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Are there any spills detected?	Y <input type="checkbox"/>	N <input type="checkbox"/>

Comments:

<b><u>Bulky Waste Area</u></b>	Is debris picked up in a timely manner?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Are there any spills detected?	Y <input type="checkbox"/>	N <input type="checkbox"/>

Comments:

<b><u>Oil/Antifreeze Area</u></b>	Is debris picked up in a timely manner?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Are there any spills detected?	Y <input type="checkbox"/>	N <input type="checkbox"/>
	Are tops of tanks clear of debris and spills?	Y <input type="checkbox"/>	N <input type="checkbox"/>

Comments:

**MATERIALS HANDLING AREA (Cont.)**

**Container Area**

- Is debris picked up in a timely manner? Y  N
- Are there any spills detected? Y  N
- Was there any breakage of TV's or Computers? Y  N

Comments:

**Chips/Brush Area**

- Is debris picked up in a timely manner? Y  N
- Are there any spills detected? Y  N

Comments:

**Storage Bldg**

- Is debris picked up in a timely manner? Y  N
- Is Floor Area Kept Clean? Y  N
- Are there any spills detected? Y  N

Comments:

Other Comments:

**CERTIFICATION**

I hereby certify that I have read and understand the above report and to the best of my knowledge the information contained in the report is true and accurate.

\_\_\_\_\_  
Inspector Name

\_\_\_\_\_  
Date

## Appendix F: Monitoring Results



2009

# General Permit for the Discharge of Stormwater Associated with Industrial Activity

## Stormwater Monitoring Report Form

### FACILITY INFORMATION

Name (owner, operator): **Thomas Nigosanti**  
 Mailing Address: **PO Box 1300, 245 DeKoven Drive, Middletown, CT 06457**  
 Business Phone: **860-344-3407** ext.:      Fax:  
 Contact Person **Thomas Nigosanti**      Title: **Engineer**  
 Site Address: **Johnson Street (Recycling Center), Middletown, CT 06457**  
 Receiving Water (name, basin): **Coginchaug River**  
 Stormwater G.P. Registration # **GSI001140**      SIC Code: **5093**  
 Check this box if number of employees is 25 or less, or if operated by a municipality:

### SAMPLING INFORMATION

Sample Location: **Catch Basin 1**  
 Date/Time Collected: **6/9/2009/ 9:52am**  
 Person Collecting Sample: **Justin Milardo**  
 Storm Magnitude (inches): **0.59**      Storm Duration (hours): **5**  
 Date of Previous Storm Event: **6/5/2009**      Rainfall pH: **6.5**

### MONITORING RESULTS

CTL Sample No. 8515

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	6.0 mg/L	CTL, Inc. PH-0547
pH	SM4500H+B	6.7	CTL, Inc. PH-0547
COD	EPA 410.1	79 mg/L	CTL, Inc. PH-0547
TSS	SM2540D	100 mg/L	CTL, Inc. PH-0547
TP	EPA 365.3	0.14 mg/L	CTL, Inc. PH-0547
TKN	EPA 351.1	0.43 mg/L	CTL, Inc. PH-0547
NO <sub>3</sub> -N	SM4500NO3F	<0.1 mg/L	CTL, Inc. PH-0547
Total Copper	EPA 200.7	0.017 mg/L	CTL, Inc. PH-0547
Total Zinc	EPA 200.7	0.057 mg/L	CTL, Inc. PH-0547
Total Lead	EPA 200.7	<0.030 mg/L	CTL, Inc. PH-0547
24 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535
48 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Thomas Nigosanti, City Engineer  
 Signature: [Signature]      Date: 8/31/09

## Monitoring Results Recycling Center



**General Permit for the Discharge of Stormwater Associated  
with Industrial Activity**

**Stormwater Monitoring Report Form**

**FACILITY INFORMATION**

Name (owner, operator): **Thomas Nigosanti**  
 Mailing Address: **PO Box 1300, 245 DeKoven Drive, Middletown, CT 06457**  
 Business Phone: **860-344-3407** ext.:      Fax:  
 Contact Person: **Thomas Nigosanti**      Title: **Engineer**  
 Site Address: **Johnson Street (Recycling Center), Middletown, CT 06457**  
 Receiving Water (name, basin): **Coginchaug River**  
 Stormwater G.P. Registration # **GSI001140**      SIC Code: **5093**  
 Check this box if number of employees is 25 or less, or if operated by a municipality:

**SAMPLING INFORMATION**

Sample Location:      **Swale 1**  
 Date/Time Collected:      **6/9/2009/ 10:05am**  
 Person Collecting Sample:      **Justin Milardo**  
 Storm Magnitude (inches):      **0.59**      Storm Duration (hours): **5**  
 Date of Previous Storm Event: **6/5/2009**      Rainfall pH: **6.5**

**MONITORING RESULTS**

**CTL Sample No. 8516**

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	3.9 mg/L	CTL, Inc. PH-0547
pH	SM4500H+B	7.0	CTL, Inc. PH-0547
COD	EPA 410.1	162 mg/L	CTL, Inc. PH-0547
TSS	SM2540D	270 mg/L	CTL, Inc. PH-0547
TP	EPA 365.3	0.38 mg/L	CTL, Inc. PH-0547
TKN	EPA 351.1	0.43 mg/L	CTL, Inc. PH-0547
NO <sub>3</sub> -N	SM4500NO3F	0.2 mg/L	CTL, Inc. PH-0547
Total Copper	EPA 200.7	0.046 mg/L	CTL, Inc. PH-0547
Total Zinc	EPA 200.7	0.093 mg/L	CTL, Inc. PH-0547
Total Lead	EPA 200.7	0.035 mg/L	CTL, Inc. PH-0547
24 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535
48 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Thomas Nigosanti City Engineer

Signature: [Signature]      Date: 8/31/09



**General Permit for the Discharge of Stormwater Associated  
with Industrial Activity**

2008

**Stormwater Monitoring Report Form**

**FACILITY INFORMATION**

Name (owner, operator)	<u>City of Middletown Recycling Center</u>		
Mailing Address	<u>245 deKoven Drive, P.O. Box 1300, Middletown, Ct 06457</u>		
Business Phone	<u>(860) 344-3549</u>	ext.:	Fax: <u>(860) 344-3590</u>
Contact Person	<u>Mr. Tom Nigosanti, P.E.</u>	Title:	<u>Chief Engineer</u>
Site Address	<u>Johnson Street &amp; North Main Street</u>		
Receiving Water (name, basin)	<u>Mattabassett River</u>		
Stormwater G.P. Registration #	<u>GSI 001140</u>	SIC Code	<u>4953</u>
Check this box if number of employees is 25 or less, or if operated by a municipality: <input checked="" type="checkbox"/>			

**SAMPLING INFORMATION**

Sample Location	<u>catch basin at recycling center</u>		
Date/Time Collected	<u>9/6/08 7:50 a.m.</u>		
Person Collecting Sample	<u>Duc Nguyen</u>		
Storm Magnitude (inches)	<u>3.56</u>	Storm Duration (hours)	<u>approx. 24 hours</u>
Date of Previous Storm Event	<u>8/30/08</u>	Rainfall pH	<u>8.15</u>

**MONITORING RESULTS**

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	1.6 mg/l	Phoenix Environmental Labs
pH	4500-H B/9045	7.15 S.U.	Phoenix Environmental Labs
COD	SM5220 D	23 mg/l	Phoenix Environmental Labs
TSS	SM2540 D	38 mg/l	Phoenix Environmental Labs
TP	SM4500P E	0.03 mg/l	Phoenix Environmental Labs
TKN	E351.1	0.44 mg/l	Phoenix Environmental Labs
NO3-N	E353.2	0.13 mg/l	Phoenix Environmental Labs
Total Copper	6010/200.7	0.058 mg/l	Phoenix Environmental Labs
Total Zinc	6010/200.7	0.716 mg/l	Phoenix Environmental Labs
Total Lead	6010/200.7	0.095 mg/l	Phoenix Environmental Labs
24 Hr. LC50	EPA-821-R-02-012	> 100%	GZA GeoEnvironmental, Inc.
48 Hr. LC50	EPA-821-R-02-012	> 100%	GZA GeoEnvironmental, Inc.

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: CITY ENGINEER

Signature: [Signature] Date: 11/20/08



# General Permit for the Discharge of Stormwater Associated with Industrial Activity

## Stormwater Monitoring Report Form

### FACILITY INFORMATION

Name (owner, operator): <u>City of Middletown Recycling Center</u>	
Mailing Address <u>245 deKoven Drive, P.O. Box 1300, Middletown, Ct 06457</u>	
Business Phone <u>(860) 344-3549</u>	ext.: _____ Fax: <u>(860) 344-3590</u>
Contact Person <u>Mr. Tom Nigosanti, P.E.</u>	Title: <u>Chief Engineer</u>
Site Address <u>Johnson Street &amp; North Main Street</u>	
Receiving Water (name, basin) <u>Coginchaug River</u>	
Stormwater G.P. Registration # <u>GSI 001140</u>	SIC Code <u>4953</u>
Check this box if number of employees is 25 or less, or if operated by a municipality: <input checked="" type="checkbox"/>	

### SAMPLING INFORMATION

Sample Location	<u>swale at recycling center</u>		
Date/Time Collected	<u>9/26/08</u>		
Person Collecting Sample	<u>Duc Nguyen</u>		
Storm Magnitude (inches)	<u>3.15</u>	Storm Duration (hours)	<u>approx. 19.5 hours</u>
Date of Previous Storm Event	<u>9/14/08</u>	Rainfall pH	<u>7.53</u>

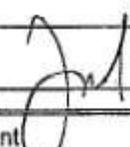
### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	3.8 mg/l	Phoenix Environmental Labs
pH	4500-H B/9045	7.06 S.U.	Phoenix Environmental Labs
COD	SM5220 D	140 mg/l	Phoenix Environmental Labs
TSS	SM2540 D	120 mg/l	Phoenix Environmental Labs
TP	SM4500P E	0.30 mg/l	Phoenix Environmental Labs
TKN	E351.1	1.8 mg/l	Phoenix Environmental Labs
NO3-N	E353.2	0.09 mg/l	Phoenix Environmental Labs
Total Copper	6010/200.7	0.026 mg/l	Phoenix Environmental Labs
Total Zinc	6010/200.7	0.112 mg/l	Phoenix Environmental Labs
Total Lead	6010/200.7	0.071 mg/l	Phoenix Environmental Labs
24 Hr. LC50	EPA-821-R-02-012	> 100%	GZA GeoEnvironmental, Inc.
48 Hr. LC50	EPA-821-R-02-012	> 100%	GZA GeoEnvironmental, Inc.

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: \_\_\_\_\_ CHY B. NGINER

Signature: \_\_\_\_\_  Date: 10/20/08



# General Permit for the Discharge of Stormwater Associated with Industrial Activity

2007

## Stormwater Monitoring Report Form

### FACILITY INFORMATION

Name (owner, operator)	<u>City of Middletown Recycling Center</u>		
Mailing Address	<u>245 deKoven Drive, P.O. Box 1300, Middletown, Ct 06457</u>		
Business Phone	<u>(860) 344-3549</u>	ext.:	<u>        </u> Fax: <u>(860) 344-3590</u>
Contact Person	<u>Mr. Tom Nigosanti, P.E.</u>	Title:	<u>Chief Engineer</u>
Site Address	<u>Johnson Street &amp; North Main Street</u>		
Receiving Water (name, basin)	<u>Mattabassett River</u>		
Stormwater G.P. Registration #	<u>GSI 001140</u>	SIC Code	<u>4953</u>
Check this box if number of employees is 25 or less, or if operated by a municipality: <input checked="" type="checkbox"/>			

### SAMPLING INFORMATION

Sample Location	<u>catch basin at recycling center</u>		
Date/Time Collected	<u>4/28/08 2:16 p.m.</u>		
Person Collecting Sample	<u>Duc Nguyen</u>		
Storm Magnitude (inches)	<u>1.95</u>	Storm Duration (hours)	<u>approx. 18</u>
Date of Previous Storm Event	<u>4/12/08</u>	Rainfall pH	<u>7.95</u>

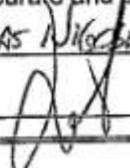
### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	3.1 mg/l	Phoenix Environmental Labs
pH	4500-H B/9045	6.90 S.U.	Phoenix Environmental Labs
COD	SM5220 D	35 mg/l	Phoenix Environmental Labs
TSS	SM2540 D	120 mg/l	Phoenix Environmental Labs
TP	SM4500P E	0.32 mg/l	Phoenix Environmental Labs
TKN	E351.1	1.4 mg/l	Phoenix Environmental Labs
NO3-N	E353.2	0.1 mg/l	Phoenix Environmental Labs
Total Copper	6010/200.7	0.015 mg/l	Phoenix Environmental Labs
Total Zinc	6010/200.7	0.149 mg/l	Phoenix Environmental Labs
Total Lead	6010/200.7	0.025 mg/l	Phoenix Environmental Labs
24 Hr. LC50	EPA-821-R-02-012	> 100%	Environmental Risk Limited
48 Hr. LC50	EPA-821-R-02-012	> 100%	Environmental Risk Limited

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: THOMAS NIGOSANTI, CITY ENGINEER

Signature:  Date: 6/11/08



# General Permit for the Discharge of Stormwater Associated with Industrial Activity

## Stormwater Monitoring Report Form

### FACILITY INFORMATION

Name (owner, operator) City of Middletown Recycling Center

Mailing Address 245 deKoven Drive, P.O. Box 1300, Middletown, Ct 06457

Business Phone (860) 344-3549 ext.: \_\_\_\_\_ Fax: (860) 344-3590

Contact Person Mr. Tom Nigosanti, P.E. Title: Chief Engineer

Site Address Johnson Street & North Main Street

Receiving Water (name, basin) Coginchaug River

Stormwater G.P. Registration # GSI 001140 SIC Code 4953

Check this box if number of employees is 25 or less, or if operated by a municipality:

### SAMPLING INFORMATION

Sample Location swale at recycling center

Date/Time Collected 4/28/08 2:24 p.m.

Person Collecting Sample Duc Nguyen

Storm Magnitude (inches) 1.95 Storm Duration (hours) approx. 18

Date of Previous Storm Event 4/12/08 Rainfall pH 7.95

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	3.0 mg/l	Phoenix Environmental Labs
pH	4500-H B/9045	7.11 S.U.	Phoenix Environmental Labs
COD	SM5220 D	120 mg/l	Phoenix Environmental Labs
TSS	SM2540 D	72 mg/l	Phoenix Environmental Labs
TP	SM4500P E	0.79 mg/l	Phoenix Environmental Labs
TKN	E351.1	2.9 mg/l	Phoenix Environmental Labs
NO3-N	E353.2	0.22 mg/l	Phoenix Environmental Labs
Total Copper	6010/200.7	0.031 mg/l	Phoenix Environmental Labs
Total Zinc	6010/200.7	0.105 mg/l	Phoenix Environmental Labs
Total Lead	6010/200.7	0.049 mg/l	Phoenix Environmental Labs
24 Hr. LC50	EPA-821-R-02-012	> 100%	Environmental Risk Limited
48 Hr. LC50	EPA-821-R-02-012	> 100%	Environmental Risk Limited

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: THOMAS NIGOSANTI, CITY ENGINEER

Signature: [Signature] Date: 6/11/08



# General Permit for the Discharge of Stormwater Associated with Industrial Activity

## Stormwater Monitoring Report Form

2005 year

### FACILITY INFORMATION

Name (owner, operator) **Thomas Nigosanti**  
 Mailing Address **PO Box 1300, 245 DeKoven Drive, Middletown, CT 06457**  
 Business Phone **860-344-3407** ext.: Fax:  
 Contact Person **Thomas Nigosanti** Title: **Engineer**  
 Site Address **Johnson Street (Recycling Center), Middletown, CT 06457**  
 Receiving Water (name, basin) **Coginchaug River**  
 Stormwater G.P. Registration # **GS1001140** SIC Code **5093**  
 Check this box if number of employees is 25 or less, or if operated by a municipality:

### SAMPLING INFORMATION

Sample Location **Catch Basin 1**  
 Date/Time Collected **7/7/2009/ 7:45am**  
 Person Collecting Sample **Justin Milardo**  
 Storm Magnitude (inches) **0.29** Storm Duration (hours) **2**  
 Date of Previous Storm Event **7/3/2009** Rainfall pH **5.5**

### MONITORING RESULTS

CTL Sample No. 9779

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	<2.0 mg/L	CTL, Inc. PH-0547
pH	SM4500H+B	6.3	CTL, Inc. PH-0547
COD	EPA 410.1	13 mg/L	CTL, Inc. PH-0547
TSS	SM2540D	12 mg/L	CTL, Inc. PH-0547
TP	EPA 365.3	0.07 mg/L	CTL, Inc. PH-0547
TKN	EPA 351.1	1.31 mg/L	CTL, Inc. PH-0547
NO <sub>3</sub> -N	SM4500NO3F	0.7 mg/L	CTL, Inc. PH-0547
Total Copper	EPA 200.7	0.012 mg/L	CTL, Inc. PH-0547
Total Zinc	EPA 200.7	0.057 mg/L	CTL, Inc. PH-0547
Total Lead	EPA 200.7	<0.030 mg/L	CTL, Inc. PH-0547
24 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535
48 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Thomas Nigosanti, City Engineer  
 Signature: [Signature] Date: 8/31/09



**General Permit for the Discharge of Stormwater Associated  
with Industrial Activity**

**Stormwater Monitoring Report Form**

*2005 Year*

**FACILITY INFORMATION**

Name (owner, operator) **Thomas Nigosanti**  
 Mailing Address **PO Box 1300, 245 DeKoven Drive, Middletown, CT 06457**  
 Business Phone **860-344-3407** ext.:      Fax:  
 Contact Person **Thomas Nigosanti** Title: **Engineer**  
 Site Address **Johnson Street (Recycling Center), Middletown, CT 06457**  
 Receiving Water (name, basin) **Coginchaug River**  
 Stormwater G.P. Registration # **GS1001140** SIC Code **5093**  
 Check this box if number of employees is 25 or less, or if operated by a municipality:

**SAMPLING INFORMATION**

Sample Location                      **Swale 1**  
 Date/Time Collected                **7/7/2009/ 7:50am**  
 Person Collecting Sample          **Justin Milardo**  
 Storm Magnitude (inches)        **0.29**                      Storm Duration (hours) **2**  
 Date of Previous Storm Event      **7/3/2009**                      Rainfall pH **5.5**

**MONITORING RESULTS**

**CTL Sample No. 9780**

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664A	<2.0 mg/L	CTL, Inc. PH-0547
pH	SM4500H+B	6.5	CTL, Inc. PH-0547
COD	EPA 410.1	22 mg/L	CTL, Inc. PH-0547
TSS	SM2540D	35 mg/L	CTL, Inc. PH-0547
TP	EPA 365.3	0.12 mg/L	CTL, Inc. PH-0547
TKN	EPA 351.1	1.34 mg/L	CTL, Inc. PH-0547
NO <sub>3</sub> -N	SM4500NO3F	0.7 mg/L	CTL, Inc. PH-0547
Total Copper	EPA 200.7	0.021 mg/L	CTL, Inc. PH-0547
Total Zinc	EPA 200.7	0.057 mg/L	CTL, Inc. PH-0547
Total Lead	EPA 200.7	<0.030 mg/L	CTL, Inc. PH-0547
24 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535
48 Hr. LC <sub>50</sub>	EPA-821-R-02-012	>100%	ECL, Inc. PH-0535

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: *THOMAS NIGOSANTI, CITY ENGINEER*  
 Signature: *[Signature]* Date: *8/31/09*



**General Permit for the Discharge of Stormwater Associated  
with Industrial Activity**

2004

**Stormwater Monitoring Report Form**

**FACILITY INFORMATION**

Name (owner, operator)	<u>City of Middletown</u>
Mailing Address	<u>245 deKoven Drive, P.O. Box 1300, Middletown, Ct 06457</u>
Business Phone	<u>(860) 344-3549</u> ext.: <u>      </u> Fax: <u>(860) 344-3590</u>
Contact Person	<u>Mr. Tom Nigosanti</u> Title: <u>Chief Engineer</u>
Site Address	<u>Johnson Street &amp; North Main Street</u>
Receiving Water (name, basin)	<u>Connecticut River</u>
Stormwater G.P. Registration #	<u>GSI 1140</u> SIC Code <u>5093</u>
Check this box if number of employees is 25 or less, or if operated by a municipality: <input checked="" type="checkbox"/>	

**SAMPLING INFORMATION**

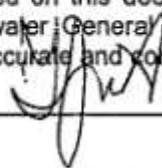
Sample Location	<u>catch basin at recycling center</u>
Date/Time Collected	<u>9/8/04, A.M.</u>
Person Collecting Sample	<u>Patrick McKay</u>
Storm Magnitude (inches)	<u>1.04</u> Storm Duration (hours) <u>approx. 8</u>
Date of Previous Storm Event	<u>9/4/04</u> Rainfall pH <u>approx. 7</u>

**MONITORING RESULTS**

Parameter	Method	Results (units)	Laboratory
Oil & Grease	EPA 1664	3.0 mg/l	Phoenix Environmental Labs
pH	E 150.1	6.88 S.U.	Phoenix Environmental Labs
COD	SM5220 D	80 mg/l	Phoenix Environmental Labs
TSS	SM2540 D	100 mg/l	Phoenix Environmental Labs
TP	E365.2	0.26 mg/l	Phoenix Environmental Labs
TKN	E351.1	2.4 mg/l	Phoenix Environmental Labs
NO3-N	300.0/9056	0.79 mg/l	Phoenix Environmental Labs
Total Copper	6010/E200.7	0.024 mg/l	Phoenix Environmental Labs
Total Zinc	6010/E200.7	0.095 mg/l	Phoenix Environmental Labs
Total Lead	7421/S3113B	0.028 mg/l	Phoenix Environmental Labs
24 Hr. LC50	EPA-821-R-02-012	> 100%	Environmental Risk Limited
48 Hr. LC50	EPA-821-R-02-012	> 100%	Environmental Risk Limited

**STATEMENT OF ACKNOWLEDGMENT**

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official:  THOMAS NIGOSANTI, CITY ENGINEER

Signature: \_\_\_\_\_ Date: 1/12/05



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

October 08, 2001

FOR: Attn: Mr. Thomas Nigosanti  
Middletown Public Works Dept.  
P.O. Box 1300  
Middletown CT 06457

### Sample Information

Matrix: WATER  
Location Code: MIDDLEPW  
Project Code:  
P.O.#:

### Custody Information

Collected by:  
Received by: SW  
Analyzed by: see "By" below

Date      Time  
09/21/01    2:35  
09/21/01    8:47

## Laboratory Data

Client ID: STORMWATER CITY LF STORM DRAIN      Phoenix I.D.: AD61074

Parameter	Result	RL	Units	Date	TimeBy	Reference
Lead (Furnace)	0.038	0.001	mg/L	09/24/01	R/T	7421/S3113B
Fecal Coliforms	>600	10	/100 mls.	09/21/01	11:00 R/C	9222D
Field Services	Completed			09/24/01		LC
Nitrate as Nitrogen	0.28	0.10	mg/L	09/21/01	14:45 C/E	300.0/9056
Copper	0.0137	0.001	mg/L	09/26/01		EK 6010/E200.7
Zinc	0.069	0.005	mg/L	09/26/01		EK 6010/E200.7
Aquatic Toxicity	Completed			10/05/01		OL
Nitrogen Tot Kjeldahl	BDL	1.0	mg/L	10/04/01		BP E351.1
Total Metals Digest	Completed			09/21/01		TR SW846 - 3005
pH	7.39	0.10	pH Units	09/21/01	16:01	CD E150.1
Oil and Grease by EPA 1664	BDL	1.4	mg/L	09/24/01		GAD EPA 1664
Phosphorus, TPO4 as P	0.18	0.01	mg/L	09/24/01		JL E365.2
C.O.D.	70	10	mg/L	09/24/01		CL SM5220 D
Total Suspended Solids	200	5.0	mg/L	09/24/01		CF SM2540D

COPY



# ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road  
Middletown, CT 06457, (860) 632-0600  
FAX (860) 632-7743

2000

Client: **Middletown Public Works Dept.  
Mr. Tom Nigosanti**

Lab Report Number: 2004000098

Purchase Order #: 2000-02212/3

Project Name: **Middletown Recycling Center**

Date Received: 04/10/00

Project Number: N/A

Contract Number: 9798-035

Client Sample ID: Johnston St.  
ESC Sample ID: 87634  
Location: Middletown, CT  
Matrix: Aqueous  
Date Sampled: 04/09/00

Rainfall pH  
87661  
Middletown, CT  
Aqueous  
04/09/00

\*\* TEST \*\*

Total Suspended Solids	75	mg/L	04/13/00	12:15	JS	N/A
Total Phosphate Phosphorous	0.53	mg/L	04/17/00	18:00	JL	N/A
Chemical Oxygen Demand	32	mg/L	04/17/00	17:15	JL	N/A
Oil & Grease - Total	2	mg/L	04/18/00	10:00	BR	N/A
Copper	0.05	mg/L	04/13/00	19:14	ML	N/A
Lead	< 0.01	mg/L	04/13/00	19:14	ML	N/A
pH	6.9		04/10/00	15:00	JL	5.3
Zinc	0.18	mg/L	04/13/00	19:14	ML	N/A
Coliform	3550	/100ml	04/09/00	06:57	JMD	N/A
Nitrogen	0.52	mg/L	04/17/00	09:20	JL	N/A
Kjeldahl Nitrogen	2.1	mg/L	04/21/00	13:13	SJC	N/A

< - Below Practical Quantitation Limit  
NA - Not Analyzed

Soils analyzed on dry weight basis.

Sample taken by ESC staff.

04/21/00

Date Reported

Laboratory Director

