

SENT ON 1/23/14

January 23, 2014

Christopher O. Stone, P.E.
Stormwater Permit Coordinator
CT DEP
79 Elm Street
Hartford CT 06106

RE: Town of Fairfield – Stormwater Monitoring Results from **PHASE 1** Activities are enclosed
Sample dates: November 27, 2013 (Sample results 4 of 4).

Dear Mr. Stone:

Enclosed are the Town of Fairfield's Stormwater monitoring results for (Sample results 4 of 4). Reference is made to the following:

Fairfield DPW Yard: GSI – 001448

Fairfield/Former Ground Products Site/Current Green Cycle (Compost Facility)
GSI-001871

Fairfield WPCF (Sewage Treatment Plant)
GSI-001992 Site #51-001

Town Marina/Boat Basin results are included
GSI-002240

Notes:

Marina 1, 3, 7, 8 & WPCF 3 have qualified for exemption based on the average of the past 4 samples.

DPW #3 is now considered inactive/obsolete as site has been re-graded and pipe is bulkheaded.

Please contact me if you have any questions or comments.

Sincerely,

William Hurley, P.E.
Engineering Manager

WH:pal
Enc.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**
General Requirements and Sector G Transportation Facilities Only
(Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: <u>Town Of Fairfield</u>	Site Name: <u>DPW-01</u>
Mailing Address: <u>725 Old Post Road, Fairfield</u>	
Contact Person: <u>William Hurley</u>	Title: <u>Engineering Manager</u>
Business Phone: <u>203-256-3015</u>	ext.: _____ Email: <u>whurley@town.fairfield.ct.us</u>
Site Address: _____	
Receiving Water (name/basin): <u>Pine Creek</u>	
Permit #: <u>GSI 001448</u>	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: <u>DPW-01</u>	Person Collecting Sample: <u>Chris Rogers</u>
Date/Time Collected: <u>11/27/2013 11:00AM</u>	Date of Previous Storm Event: <u>11/18/2013</u>
This report is for samples required: Semi-annually <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains snow or ice melt : <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> <small>see note below</small>	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	3.2	5.0 mg/L	<input type="checkbox"/>	1664A	BCL
Rainfall pH	Semi-annual	7.22	n/a		150.1	"
Sample pH	Semi-annual	7.08	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	8	75 mg/L	<input checked="" type="checkbox"/>	410.4	"
TSS	Semi-annual	68	90 mg/L	<input checked="" type="checkbox"/>	160.2	"
TP	Semi-annual	0.24	0.40 mg/L	<input checked="" type="checkbox"/>	200.7	"
TKN	Semi-annual	3.43	2.30 mg/L	<input type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	0.46	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual	1.060	0.059 mg/L	<input checked="" type="checkbox"/>	200.7	"
Total Zinc	Semi-annual	0.140	0.160 mg/L	<input type="checkbox"/>	200.7	"
Total Lead	Semi-annual	<0.050	0.076 mg/L	<input type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: <small>see note below</small>

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: DPW-01	
Date/Time Begin: 11/27/13 @ 1520	Date/Time End: 11/29/13 @ 1520
Sample Hardness: 21 mg/L	Sample Conductivity: 408. umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1 ppm

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2		5	5	5									
CONTROL 3		5	5	5									
CONTROL 4		5	5	5									
6.25% A		5	5	5	8.83	8.91	9.42	20	19	19	7.87	7.27	7.21
6.25% B		5	5	5									
6.25% C		5	5	5									
6.25% D		5	5	5									
12.5% A		5	5	5	8.76	8.96	9.38	20	19	19	7.87	7.35	7.21
12.5% B		5	5	5									
12.5% C		5	5	5									
12.5% D		5	5	5									
25% A		5	5	5	8.87	8.99	9.39	20	19	19	7.84	7.30	7.20
25% B		5	5	5									
25% C		5	5	5									
25% D		5	5	5									
50% A		5	5	5	9.02	8.99	9.26	20	19	19	7.84	7.29	7.22
50% B		5	5	5									
50% C		5	5	5									
50% D		5	5	5									
100% A		5	5	5	9.58	8.83	9.15	21	20	19	7.86	7.32	7.33
100% B		5	5	5									
100% C		5	5	5									
100% D		5	5	5									

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
 BUREAU OF WATER PROTECTION AND LAND REUSE
 CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>001448</u>
Site Name: <u>DPW-01</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/11	9/28/2012	6/7/2013	11/27/2013			
O&G	4.0	7.4	1.7	3.2	4.075	5.0 mg/L	Y
Sample pH	7.2	7.4	7.2	7.08	7.22	5-9 S.U.	Y
COD	110	350	84	8	138	75 mg/L	N
TSS	130	610	23	68	207.75	90 mg/L	N
TP	0.29	0.95	0.15	0.24	0.4075	0.40 mg/L	N
TKN	0.98	2.9	1.2	3.43	2.13	2.30 mg/L	Y
NO ₃ -N	0.11	0.13	0.22	0.46	0.23	1.10 mg/L	Y
Total Copper	0.028	0.048	0.021	1.060	0.29	0.059 mg/L	N
Total Zinc	0.072	0.17	0.063	0.140	.11	0.160 mg/L	Y
Total Lead	0.017	0.032	0.0050	<0.050	0.019	0.076 mg/L	Y

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**
General Requirements and Sector G Transportation Facilities Only
 (Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: Town Of Fairfield Site Name: DPW-02
 Mailing Address: 725 Old Post Road, Fairfield
 Contact Person: William Hurley Title: Engineering Manager
 Business Phone: 203-256-3015 ext.: _____ Email: whurley@town.fairfield.ct.us
 Site Address: _____
 Receiving Water (name/basin): Pine Creek
 Permit #: GSI 001448 Primary SIC: _____
 Discharges into an Impaired Waterbody: Yes No (If yes, complete the table on page 3 of this form)

Sample Information

Sample Location: DPW-02 Person Collecting Sample: Chris Rogers
 Date/Time Collected: 11/27/2013 11:05AM Date of Previous Storm Event: 11/18/2013
 This report is for samples required: Semi-annually Annually Other
 Check here if the sample contains **snow or ice melt**:
 Check here if a benchmark exceedance is solely due to background or off site sources see note below

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	1.1	5.0 mg/L	<input type="checkbox"/>	1664A	Premier Laboratory
Rainfall pH	Semi-annual	7.18	n/a		150.1	"
Sample pH	Semi-annual	7.11	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	105	75 mg/L	<input checked="" type="checkbox"/>	410.4	"
TSS	Semi-annual	44	90 mg/L	<input type="checkbox"/>	160.2	"
TP	Semi-annual	0.20	0.40 mg/L	<input type="checkbox"/>	200.7	"
TKN	Semi-annual	4.55	2.30 mg/L	<input checked="" type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	1.05	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual	<0.050	0.059 mg/L	<input type="checkbox"/>	200.7	"
Total Zinc	Semi-annual	0.120	0.160 mg/L	<input type="checkbox"/>	200.7	"
Total Lead	Semi-annual	<0.050	0.076 mg/L	<input type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: DPW-02	
Date/Time Begin: 11/27/13 @ 1515	Date/Time End: 11/29/13
Sample Hardness: 18 mg/L	Sample Conductivity: 408. umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1 ppm

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2		5	5	5									
CONTROL 3		5	5	5									
CONTROL 4		5	5	5									
6.25% A		5	5	5	8.72	9.00	9.40	20	20	19	7.76	6.98	7.11
6.25% B		5	5	5									
6.25% C		5	5	5									
6.25% D		5	5	5									
12.5% A		5	5	5	8.75	8.99	9.35	20	19	19	7.73	7.00	7.04
12.5% B		5	5	5									
12.5% C		5	5	5									
12.5% D		5	5	5									
25% A		5	5	5	8.83	8.99	9.22	20	19	19	7.65	6.97	6.94
25% B		5	5	5									
25% C		5	5	5									
25% D		5	5	5									
50% A		5	5	5	9.07	8.90	9.20	21	19	19	7.57	6.93	6.79
50% B		5	5	5									
50% C		5	5	5									
50% D		5	5	5									
100% A		5	5	5	9.64	8.80	9.21	21	19	19	7.47	6.88	6.64
100% B		5	5	5									
100% C		5	5	5									
100% D		5	5	5									

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

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 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>001448</u>
Site Name: <u>DPW-02</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/11	9/18/2012	6/7/2013	11/27/2013			
O&G	ND	4.6	1.4	1.1	1.77	5.0 mg/L	Y
Sample pH	6.5	6.8	6.6	7.11	6.75	5-9 S.U.	Y
COD	180	320	210	105	203.75	75 mg/L	N
TSS	22	100	14	44	45	90 mg/L	Y
TP	0.73	0.25	0.010	0.20	0.30	0.40 mg/L	Y
TKN	4.2	4.2	3.6	4.55	4.13	2.30 mg/L	N
NO ₃ -N	1.1	0.58	1.4	1.05	1.03	1.10 mg/L	Y
Total Copper	0.014	0.014	0.0062	<0.050	0.015	0.059 mg/L	Y
Total Zinc	0.043	0.044	0.032	0.120	0.06	0.160 mg/L	Y
Total Lead	0.0036	0.010	0.0039	<0.050	.017	0.076 mg/L	Y

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.



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Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**
General Requirements and Sector G Transportation Facilities Only
(Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: <u>Town Of Fairfield</u>	Site Name: <u>DPW-03</u>
Mailing Address: <u>725 Old Post Road, Fairfield</u>	
Contact Person: <u>William Hurley</u>	Title: <u>Engineering Manager</u>
Business Phone: <u>203-256-3015</u>	ext.: _____ Email: <u>whurley@town.fairfield.ct.us</u>
Site Address: _____	
Receiving Water (name/basin): <u>Site regraded-no outfall</u>	
Permit #: <u>GSI 001448</u>	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: <u>DPW-03</u>	Person Collecting Sample: <u>NA</u>
Date/Time Collected: <u>NA</u>	Date of Previous Storm Event: <u>5/29/2013</u>
This report is for samples required: Semi-annually <input type="checkbox"/> Annually <input type="checkbox"/> Other <input checked="" type="checkbox"/>	
Check here if the sample contains snow or ice melt : <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> <small>see note below</small>	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual		5.0 mg/L	<input type="checkbox"/>		Premier Laboratory
Rainfall pH	Semi-annual		n/a			"
Sample pH	Semi-annual		5-9 SU	<input type="checkbox"/>		"
COD	Semi-annual		75 mg/L	<input type="checkbox"/>		"
TSS	Semi-annual		90 mg/L	<input type="checkbox"/>		"
TP	Semi-annual		0.40 mg/L	<input type="checkbox"/>		"
TKN	Semi-annual		2.30 mg/L	<input type="checkbox"/>		"
NO ₃ -N	Semi-annual		1.10 mg/L	<input type="checkbox"/>		"
Total Copper	Semi-annual		0.059 mg/L	<input type="checkbox"/>		"
Total Zinc	Semi-annual		0.160 mg/L	<input type="checkbox"/>		"
Total Lead	Semi-annual		0.076 mg/L	<input type="checkbox"/>		"
24 Hr. LC ₅₀	Annual-Year 1&2		n/a			NEB
48 Hr. LC ₅₀	Annual-Year 1&2		n/a			NEB

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: <small>see note below</small> Site regraded- outfall is blocked and not operational- discard sampling site DPW-3
--

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
 (required annually only during Year 1 and Year 2 of the permit)

Site Name:	
Date/Time Begin:	Date/Time End:
Sample Hardness:	Sample Conductivity:
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness:

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>				

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

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 BUREAU OF WATER PROTECTION AND LAND REUSE
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 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>001448</u>
Site Name: <u>DPW-03</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/11						
O&G	ND					5.0 mg/L	
Sample pH	7.3					5-9 S.U.	
COD	130					75 mg/L	
TSS	34					90 mg/L	
TP	0.25					0.40 mg/L	
TKN	1.8					2.30 mg/L	
NO ₃ -N	1.3					1.10 mg/L	
Total Copper	0.021					0.059 mg/L	
Total Zinc	0.034					0.160 mg/L	
Total Lead	0.011					0.076 mg/L	

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**
General Requirements and Sector G Transportation Facilities Only
 (Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: Town Of Fairfield Site Name: Ground Products 1
 Mailing Address: 725 Old Post Road, Fairfield
 Contact Person: William Hurley Title: Engineering Manager
 Business Phone: 203-256-3015 ext.: _____ Email: whurley@town.fairfield.ct.us
 Site Address: _____
 Receiving Water (name/basin): Pine Creek
 Permit #: GSI 001871 Primary SIC: _____
 Discharges into an Impaired Waterbody: Yes No (If yes, complete the table on page 3 of this form)

Sample Information

Sample Location: Ground Products 1 Person Collecting Sample: Chris Rogers
 Date/Time Collected: 11/27/2013 10:37 am Date of Previous Storm Event: 11/18/2013
 This report is for samples required: Semi-annually Annually Other
 Check here if the sample contains **snow or ice melt**:
 Check here if a benchmark exceedance is solely due to background or off site sources see note below

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	3.4	5.0 mg/L	<input type="checkbox"/>	1664A	BCL
Rainfall pH	Semi-annual	6.43	n/a		150.1	"
Sample pH	Semi-annual	6.94	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	87	75 mg/L	<input checked="" type="checkbox"/>	410.4	"
TSS	Semi-annual	392	90 mg/L	<input checked="" type="checkbox"/>	160.2	"
TP	Semi-annual	3.42	0.40 mg/L	<input checked="" type="checkbox"/>	200.7	"
TKN	Semi-annual	138.70	2.30 mg/L	<input checked="" type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	0.51	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual	1.530	0.059 mg/L	<input checked="" type="checkbox"/>	200.7	"
Total Zinc	Semi-annual	0.540	0.160 mg/L	<input checked="" type="checkbox"/>	200.7	"
Total Lead	Semi-annual	0.070	0.076 mg/L	<input type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Ground Products 1	
Date/Time Begin: 11/27/13 @ 1533	Date/Time End: 11/29/13 @ 1530
Sample Hardness: 14 mg/L	Sample Conductivity: 86 umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1 ppm

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2		5	5	5									
CONTROL 3		5	5	5									
CONTROL 4		5	5	5									
6.25% A		5	5	5	8.43	8.23	9.21	20	20	19	7.06	6.70	7.20
6.25% B		5	5	5									
6.25% C		5	5	5									
6.25% D		5	5	5									
12.5% A		5	5	5	8.55	8.61	9.09	20	20	19	7.16	6.83	7.17
12.5% B		5	5	5									
12.5% C		5	5	5									
12.5% D		5	5	5									
25% A		5	5	5	8.56	8.51	8.39	20	20	19	7.19	6.89	7.10
25% B		5	5	5									
25% C		5	5	5									
25% D		5	5	5									
50% A		5	5	5	8.52	8.07	8.57	20	20	19	7.22	6.93	7.08
50% B		5	5	5									
50% C		5	5	5									
50% D		5	5	5									
100% A		5	5	5	7.57	7.06	8.04	20	20	19	7.30	6.97	7.19
100% B		5	5	5									
100% C		5	5	5									
100% D		5	5	5									

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
 BUREAU OF WATER PROTECTION AND LAND REUSE
 CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>001871</u>
Site Name: <u>Ground Products 1</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/11	9/28/2012	6/7/2013	11/27/2013			
O&G	8.8	ND	2.0	3.4	3.55	5.0 mg/L	Y
Sample pH	6.2	6.7	6.0	6.94	6.46	5-9 S.U.	Y
COD	450	50	540	87	281.75	75 mg/L	N
TSS	270	58	400	392	280	90 mg/L	N
TP	3.5	0.38	2.8	3.42	2.53	0.40 mg/L	N
TKN	13	1.7	13	138.70	41	2.30 mg/L	N
NO ₃ -N	ND	0.34	0.16	0.51	.25	1.10 mg/L	Y
Total Copper	0.068	0.0058	0.12	1.53	0.43	0.059 mg/L	N
Total Zinc	0.56	0.033	0.49	0.54	0.41	0.160 mg/L	N
Total Lead	0.050	0.0050	0.073	0.070	.049	0.076 mg/L	Y

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**
General Requirements and Sector G Transportation Facilities Only
 (Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: <u>Town Of Fairfield</u>	Site Name: <u>Ground Products 2</u>
Mailing Address: <u>725 Old Post Road, Fairfield</u>	
Contact Person: <u>William Hurley</u>	Title: <u>Engineering Manager</u>
Business Phone: <u>203-256-3015</u>	ext.: _____ Email: <u>whurley@town.fairfield.ct.us</u>
Site Address: _____	
Receiving Water (name/basin): <u>Pine Creek</u>	
Permit #: <u>GSI 001871</u>	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: <u>Ground Products 2</u>	Person Collecting Sample: <u>Chris Rogers</u>
Date/Time Collected: <u>11/27/2013 10:29 am</u>	Date of Previous Storm Event: <u>11/18/2013</u>
This report is for samples required: Semi-annually <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains snow or ice melt : <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> <small>see note below</small>	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	<1	5.0 mg/L	<input type="checkbox"/>	1664A	BCL
Rainfall pH	Semi-annual	6.54	n/a		150.1	"
Sample pH	Semi-annual	6.34	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	55	75 mg/L	<input checked="" type="checkbox"/>	410.4	"
TSS	Semi-annual	1090	90 mg/L	<input checked="" type="checkbox"/>	160.2	"
TP	Semi-annual	18.31	0.40 mg/L	<input checked="" type="checkbox"/>	200.7	"
TKN	Semi-annual	2.10	2.30 mg/L	<input checked="" type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	0.37	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual	1.300	0.059 mg/L	<input checked="" type="checkbox"/>	200.7	"
Total Zinc	Semi-annual	1.070	0.160 mg/L	<input checked="" type="checkbox"/>	200.7	"
Total Lead	Semi-annual	0.120	0.076 mg/L	<input checked="" type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: <small>see note below</small>

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Ground Products 2	
Date/Time Begin: 11/27/13 @ 1525	Date/Time End: 11/29/13 @ 1525
Sample Hardness: 11 mg/L	Sample Conductivity: 558. umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1 ppm

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2		5	5	5									
CONTROL 3		5	5	5									
CONTROL 4		5	5	5									
6.25% A		5	5	5	8.21	7.53	8.39	20	19	19	7.04	7.19	7.08
6.25% B		5	5	5									
6.25% C		5	5	5									
6.25% D		5	5	5									
12.5% A		5	5	5	7.96	6.06	6.50	20	19	19	6.96	7.06	6.93
12.5% B		5	5	5									
12.5% C		5	5	5									
12.5% D		5	5	5									
25% A		5	5	5	7.38	3.54	3.65	21	20	19	6.79	6.91	6.76
25% B		5	5	5									
25% C		5	5	5									
25% D		5	5	5									
50% A		5	5	5	6.45	2.32	2.17	21	20	19	6.64	6.60	6.56
50% B		5	5	5									
50% C		5	5	5									
50% D		5	5	5									
100% A		5	3	5	4.17	1.34	1.17	21	20	19	6.74	6.14	6.52
100% B		5	4	5									
100% C		5	3	5									
100% D		5	4	5									

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
 BUREAU OF WATER PROTECTION AND LAND REUSE
 CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>001871</u>
Site Name: <u>Ground Products 2</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	9/28/11	9/28/2012	6/7/2013	11/27/2013			
O&G	3.0	4.5	4.0	<1	3	5.0 mg/L	Y
Sample pH	7.4	6.6	6.9	6.34	6.81	5-9 S.U.	Y
COD	1600	360	870	55	721.25	75 mg/L	N
TSS	390	220	580	1090	570	90 mg/L	N
TP	10	2.3	14	18.31	11.15	0.40 mg/L	N
TKN	54	11	56	2.10	30.78	2.30 mg/L	N
NO ₃ -N	1.8	0.15	0.050	0.37	0.59	1.10 mg/L	Y
Total Copper	0.59	0.054	0.17	1.30	0.53	0.059 mg/L	N
Total Zinc	0.74	0.14	0.46	1.07	0.60	0.160 mg/L	N
Total Lead	0.22	0.025	0.044	0.12	0.10	0.076 mg/L	N

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form
Sector H - Marinas, Yacht Clubs & Boat Dealers**

Facility Information

Permittee Name: <u>Town Of Fairfield</u>	Site Name: <u>Marina 1</u>
Mailing Address: <u>725 Old Post Rd</u>	
Contact Person: <u>William Hurley</u>	Title: <u>Engineering Manager</u>
Business Phone: <u>203-256-3015</u> ext.: _____	Email: <u>whurley@town.fairfield.ct.us</u>
Site Address: _____	
Receiving Water (name/basin): <u>LIS</u>	
Permit #: GSI <u>002240</u>	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: <u>Marina 1</u>	Person Collecting Sample: <u>Chris Rogers</u>
Date/Time Collected: <u>11/27/2013 10:15 am</u>	Date of Previous Storm Event: <u>11/18/13</u>
This report is for samples required: Semi-annually <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains snow or ice melt: <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> <small>see note below</small>	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	<1.0	5.0 mg/L	<input type="checkbox"/>	1664A	BCL
Rainfall pH	Semi-annual	6.59	n/a		150.1	"
Sample pH	Semi-annual	6.38	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	12	75 mg/L	<input type="checkbox"/>	410.4	"
TSS	Semi-annual	5	90 mg/L	<input type="checkbox"/>	160.2	"
TP	Semi-annual	0.30	0.40 mg/L	<input type="checkbox"/>	200.7	"
TKN	Semi-annual	3.99	2.30 mg/L	<input type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	0.21	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual for the entire permit term	0.190	n/a		200.7	"
Total Zinc	Semi-annual	0.120	0.160 mg/L	<input type="checkbox"/>	200.7	"
Total Lead	Semi-annual	<0.050	0.076 mg/L	<input type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.

*See Additional Sector H Monitoring Section on page 3 of this form

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: <small>see note below</small>

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Marina 1	
Date/Time Begin: 11/27/13 @ 1548	Date/Time End: 11/29/13 @ 1545
Sample Hardness: 10 mg/L	Sample Conductivity: 40. umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1 ppm

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2		5	5	5									
CONTROL 3		5	5	5									
CONTROL 4		5	5	5									
6.25% A		5	5	5	9.00	9.17	9.53	20	20	19	7.87	7.83	7.44
6.25% B		5	5	5									
6.25% C		5	5	5									
6.25% D		5	5	5									
12.5% A		5	5	5	8.98	9.16	9.51	20	20	19	7.70	7.62	7.35
12.5% B		5	5	5									
12.5% C		5	5	5									
12.5% D		5	5	5									
25% A		5	5	5	9.01	9.13	9.47	20	20	19	7.62	7.53	7.25
25% B		5	5	5									
25% C		5	5	5									
25% D		5	5	5									
50% A		5	5	5	9.24	9.13	9.40	20	20	19	7.50	7.41	7.03
50% B		5	5	5									
50% C		5	5	5									
50% D		5	5	5									
100% A		5	5	5	9.50	9.07	9.34	20	20	19	7.42	7.32	6.94
100% B		5	5	5									
100% C		5	5	5									
100% D		5	5	5									

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring: Sector H

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Total Iron	Semi-annual	0.43	1.0 mg/L	<input type="checkbox"/>	200.7	BCL
Total Aluminum	Semi-annual	1.30	0.75 mg/L	<input type="checkbox"/>	200.7	BCL

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."</p>	
Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
 BUREAU OF WATER PROTECTION AND LAND REUSE
 CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

Sector H –Marinas, Yacht Clubs & Boat Dealers

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>002240</u>
Site Name: <u>Marina 1</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location in the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/2011	9/28/2012	6/7/2013	11/27/2013			
O&G	ND	ND	1.2	<1.0	0.425	5.0 mg/L	Y
Sample pH	6.0	8.2	7.6	6.38	7.045	5-9 S.U.	Y
COD	20	10	86	12	32	75 mg/L	Y
TSS	6.0	6.0	190	5	51.75	90 mg/L	Y
TP	0.088	0.044	0.31	0.30	0.19	0.40 mg/L	Y
TKN	ND	0.58	2.2	3.99	1.69	2.30 mg/L	Y
NO ₃ -N	0.10	0.2	0.34	0.21	0.21	1.10 mg/L	Y
Total Zinc	0.023	0.012	0.066	0.120	0.06	0.160 mg/L	Y
Total Lead	ND	ND	0.0028	<0.050	0.007	0.076 mg/L	Y
Total Iron	ND	0.10	ND	0.43	0.13	1.0 mg/L	Y
Total Aluminum	ND	0.056	1.4	1.30	0.69	0.75 mg/L	Y

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit. There is no monitoring exemption for copper for this sector. Facilities in this sector must monitor for copper semi-annually for the entire permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)B(iii) for a more detailed explanation.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form
Sector H - Marinas, Yacht Clubs & Boat Dealers**

Facility Information

Permittee Name: <u>Town Of Fairfield</u>	Site Name: <u>Marina 3</u>
Mailing Address: <u>725 Old Post Rd</u>	
Contact Person: <u>William Hurley</u>	Title: <u>Engineering Manager</u>
Business Phone: <u>203-256-3015</u> ext.: _____	Email: <u>whurley@town.fairfield.ct.us</u>
Site Address: _____	
Receiving Water (name/basin): <u>LIS</u>	
Permit #: GSI <u>002240</u>	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: <u>Marina 3</u>	Person Collecting Sample: <u>Chris Rogers</u>
Date/Time Collected: <u>11/27/13 10:07AM</u>	Date of Previous Storm Event: <u>11/18/2013</u>
This report is for samples required: Semi-annually <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains snow or ice melt: <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> <small>see note below</small>	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	<1.0	5.0 mg/L	<input type="checkbox"/>	1664A	BCL
Rainfall pH	Semi-annual	6.31	n/a		150.1	"
Sample pH	Semi-annual	6.68	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	46	75 mg/L	<input type="checkbox"/>	410.4	"
TSS	Semi-annual	2	90 mg/L	<input type="checkbox"/>	160.2	"
TP	Semi-annual	0.12	0.40 mg/L	<input type="checkbox"/>	200.7	"
TKN	Semi-annual	3.29	2.30 mg/L	<input type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	0.24	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual for the entire permit term	1.460	n/a		200.7	"
Total Zinc	Semi-annual	0.110	0.160 mg/L	<input type="checkbox"/>	200.7	"
Total Lead	Semi-annual	<0.050	0.076 mg/L	<input type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	>100%	n/a		EPA-821-R	EML, Inc.

*See Additional Sector H Monitoring Section on page 3 of this form

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: <small>see note below</small>

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: Marina 3	
Date/Time Begin: 11/27/13 @ 1548	Date/Time End: 11/29/13 @ 1545
Sample Hardness: 13 mg/L	Sample Conductivity: 40. umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2		5	5	5									
CONTROL 3		5	5	5									
CONTROL 4		5	5	5									
6.25% A		5	5	5	9.09	9.14	9.59	20	20	19	7.47	7.37	7.40
6.25% B		5	5	5									
6.25% C		5	5	5									
6.25% D		5	5	5									
12.5% A		5	5	5	8.92	9.17	9.54	20	20	19	7.54	7.46	7.35
12.5% B		5	5	5									
12.5% C		5	5	5									
12.5% D		5	5	5									
25% A		5	5	5	8.99	9.18	9.51	20	20	19	7.51	7.44	7.18
25% B		5	5	5									
25% C		5	5	5									
25% D		5	5	5									
50% A		5	5	5	9.05	9.17	9.44	20	20	19	7.42	7.34	6.88
50% B		5	5	5									
50% C		5	5	5									
50% D		5	5	5									
100% A		5	5	5	9.59	9.07	9.31	20	20	19	7.40	7.31	6.74
100% B		5	5	5									
100% C		5	5	5									
100% D		5	5	5									

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring: Sector H

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Total Iron	Semi-annual	0.67	1.0 mg/L	<input type="checkbox"/>	200.7	BCL
Total Aluminum	Semi-annual	1.36	0.75 mg/L	<input type="checkbox"/>	200.7	BCL

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
<hr/> Signature of Permittee	<hr/> Date
<hr/> Name of Permittee (print or type)	<hr/> Title (if applicable)
<hr/> Signature of Preparer (if different than above)	<hr/> Date
<hr/> Name of Preparer (print or type)	<hr/> Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
 BUREAU OF WATER PROTECTION AND LAND REUSE
 CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

Sector H –Marinas, Yacht Clubs & Boat Dealers

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>002240</u>
Site Name: <u>Marina 3</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location in the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/2011	9/28/2012	6/7/2013	11/27/2013			
O&G	ND	1.3	<.1.1	<1.0	0.59	5.0 mg/L	Y
Sample pH	6.2	7.5	7.1	6.68	6.87	5-9 S.U.	Y
COD	38	18	24	46	31.5	75 mg/L	Y
TSS	17	18	6.3	2	10.83	90 mg/L	Y
TP	0.15	0.055	0.074	0.12	0.10	0.40 mg/L	Y
TKN	0.57	0.62	0.52	3.29	1.25	2.30 mg/L	Y
NO ₃ -N	0.11	0.31	0.29	0.24	0.24	1.10 mg/L	Y
Total Zinc	0.037	0.034	0.042	0.110	0.06	0.160 mg/L	Y
Total Lead	0.0042	ND	<.0020	<0.050	0.008	0.076 mg/L	Y
Total Iron	ND	0.53	ND	0.67	0.3	1.0 mg.L	Y
Total Aluminum	ND	0.34	0.26	1.36	0.49	0.75 mg/L	Y

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit. There is no monitoring exemption for copper for this sector. Facilities in this sector must monitor for copper semi-annually for the entire permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)B(iii) for a more detailed explanation.



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form**
General Requirements and Sector G Transportation Facilities Only
(Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: <u>Town Of Fairfield</u>	Site Name: <u>WPCF-03</u>
Mailing Address: <u>725 Old Post Road, Fairfield</u>	
Contact Person: <u>William Hurley</u>	Title: <u>Engineering Manager</u>
Business Phone: <u>203-256-3015</u>	ext.: _____ Email: <u>whurley@town.fairfield.ct.us</u>
Site Address: _____	
Receiving Water (name/basin): <u>Pine Creek</u>	
Permit #: <u>GSI 001992</u>	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, complete the table on page 3 of this form)	

Sample Information

Sample Location: <u>WPCF-03</u>	Person Collecting Sample: <u>Chris Rogers</u>
Date/Time Collected: <u>11/27/2013 10:51am</u>	Date of Previous Storm Event: <u>11/18/2013</u>
This report is for samples required: Semi-annually <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains snow or ice melt : <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> <small>see note below</small>	

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	< 1	5.0 mg/L	<input type="checkbox"/>	1664A	BCL
Rainfall pH	Semi-annual	6.20	n/a	<input type="checkbox"/>	150.1	"
Sample pH	Semi-annual	6.16	5-9 SU	<input type="checkbox"/>	150.1	"
COD	Semi-annual	< 1	75 mg/L	<input type="checkbox"/>	410.4	"
TSS	Semi-annual	1	90 mg/L	<input type="checkbox"/>	160.2	"
TP	Semi-annual	<0.10	0.40 mg/L	<input type="checkbox"/>	200.7	"
TKN	Semi-annual	2.80	2.30 mg/L	<input type="checkbox"/>	351.3	"
NO ₃ -N	Semi-annual	<0.05	1.10 mg/L	<input type="checkbox"/>	300.0	"
Total Copper	Semi-annual	<0.050	0.059 mg/L	<input type="checkbox"/>	200.7	"
Total Zinc	Semi-annual	0.170	0.160 mg/L	<input type="checkbox"/>	200.7	"
Total Lead	Semi-annual	<0.050	0.076 mg/L	<input type="checkbox"/>	200.7	"
24 Hr. LC ₅₀	Annual-Year 1&2	70.7%	n/a	<input type="checkbox"/>	EPA-821-R	EML, Inc.
48 Hr. LC ₅₀	Annual-Year 1&2	70.7%	n/a	<input type="checkbox"/>	EPA-821-R	EML, Inc.

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: <small>see note below</small>

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
(required annually only during Year 1 and Year 2 of the permit)

Site Name: WPCF-03	
Date/Time Begin: 11/27/13 @ 1510	Date/Time End: 11/29/13 @ 1510
Sample Hardness: 14 mg/L	Sample Conductivity: 108. umhos
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness: 54.1 ppm

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1	5	5	5	5	9.13	8.49	8.13	21	21	20	7.38	7.38	7.47
CONTROL 2	5	5	5	5									
CONTROL 3	5	5	5	5									
CONTROL 4	5	5	5	5									
6.25% A	5	5	5	5	8.77	9.08	9.44	20	20	19	7.89	6.86	6.90
6.25% B	5	5	5	5									
6.25% C	5	5	5	5									
6.25% D	5	5	5	5									
12.5% A	5	5	5	5	8.84	9.09	9.42	20	19	19	7.94	7.00	6.86
12.5% B	5	5	5	5									
12.5% C	5	5	5	5									
12.5% D	5	5	5	5									
25% A	5	5	5	5	8.97	9.12	9.41	20	19	19	8.05	7.07	6.84
25% B	5	5	5	5									
25% C	5	5	5	5									
25% D	5	5	5	5									
50% A	5	5	5	5	9.24	9.12	9.43	19	19	19	8.20	7.13	6.99
50% B	5	5	5	5									
50% C	5	5	5	5									
50% D	5	5	5	5									
100% A	5	0			9.54	9.11	-	19	19	-	8.20	7.23	-
100% B	5	0											
100% C	5	0											
100% D	5	0											

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC ₅₀
<i>Daphnia pulex</i>	11/6/13	Copper Nitrate	Absolute Stds	4.7 ppb

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.”</p>	
<p>_____ Signature of Permittee</p>	<p>_____ Date</p>
<p>_____ Name of Permittee (print or type)</p>	<p>_____ Title (if applicable)</p>
<p>_____ Signature of Preparer (if different than above)</p>	<p>_____ Date</p>
<p>_____ Name of Preparer (print or type)</p>	<p>_____ Title (if applicable)</p>

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
 BUREAU OF WATER PROTECTION AND LAND REUSE
 CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet**

**General and Sector G Transportation Facilities Only
Monitoring Requirements**

Permittee Name: <u>Town Of Fairfield</u>	Permit #: GSI <u>001992</u>
Site Name: <u>WPCF-03</u>	
Site Address: _____	
Sample Location: _____	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	10/19/11	9/28/2012	6/7/2013	11/27/2013			
O&G	ND	1.1	1.2	<1	0.55	5.0 mg/L	Y
Sample pH	7.1	4.6	6.4	6.16	6.07	5-9 S.U.	Y
COD	20	5.6	10	<1	9.03	75 mg/L	Y
TSS	4.0	5.0	2.0	1	2.75	90 mg/L	Y
TP	0.043	0.016	0.016	<0.10	0.04	0.40 mg/L	Y
TKN	ND	ND	0.50	2.80	0.76	2.30 mg/L	Y
NO ₃ -N	0.18	0.24	0.28	<0.05	0.18	1.10 mg/L	Y
Total Copper	0.023	0.022	0.048	<0.05	0.03	0.059 mg/L	Y
Total Zinc	0.12	0.040	0.29	0.17	0.15	0.160 mg/L	Y
Total Lead	0.0042	ND	0.0020	<0.05	0.008	0.076 mg/L	Y

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.