

# APPENDIX B-3

## SPDES-Permitted Storm Water Outfall Discharge Data

Note: Two sets of data are presented for each group: one from samples collected between January and June; the other from samples collected between July and December.

**TABLE B-3A**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 1**

### Storm Water Outfall S04

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			3/22/2010	3/22/2010
Aluminum, Total	mg/L	2	2.8	12
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.016	0.018
BOD <sub>5</sub>	mg/L	2	<2.0	<2.0
Cadmium, Total Recoverable	mg/L	2	<0.00002	<0.00002
Chromium, Total Recoverable	mg/L	2	0.0033	0.011
Chromium, Hexavalent, Total Recoverable	mg/L	2	<0.006	<0.012
Copper, Total Recoverable	mg/L	2	0.0065	0.014
Iron, Total	mg/L	2	2.6	7.5
Lead, Total Recoverable	mg/L	2	0.0016	0.0041
Nitrogen, Nitrate (as N)	mg/L	2	0.28	0.24
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	0.062
Nitrogen, Total (as N)	mg/L	2	<0.45	0.47
Nitrogen, Total Kjeldahl	mg/L	2	<0.15	0.17
Oil & Grease <sup>a</sup>	mg/L	1	<1.4	NR
pH	SU	1	7.7	NR
Phosphorous, Total	mg/L	2	<0.005	0.038
Selenium, Total Recoverable	mg/L	2	<0.0004	<0.0004
Solids, Total Dissolved	mg/L	2	802	858
Solids, Total Suspended	mg/L	2	58	85
Vanadium, Total Recoverable	mg/L	2	0.0062	0.020
Zinc, Total Recoverable	mg/L	2	0.033	0.055
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		6.8
Rainfall During Sampling Event	inches	--		0.32
Total Flow During Sampling Event	gallons	--		210,000
Maximum Flow Rate During Sampling Event	gpm	--		1,500

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3A (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 1**

**Storm Water Outfall S04**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/16/2010	9/16/2010
Aluminum, Total	mg/L	2	1.0	0.75
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.12	0.073
BOD <sub>5</sub>	mg/L	2	<2.0	<2.0
Cadmium, Total Recoverable	mg/L	2	0.0003	<0.00002
Chromium, Total Recoverable	mg/L	2	0.0082	0.0017
Chromium, Hexavalent, Total Recoverable	mg/L	2	<0.006	<0.006
Copper, Total Recoverable	mg/L	2	0.0034	0.0026
Iron, Total	mg/L	2	1.4	0.64
Lead, Total Recoverable	mg/L	2	0.0008	0.0004
Nitrogen, Nitrate (as N)	mg/L	2	0.26	0.29
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<0.59	<0.58
Nitrogen, Total Kjeldahl	mg/L	2	0.31	0.27
Oil & Grease <sup>a</sup>	mg/L	1	<1.5	NR
pH	SU	1	7.8	NR
Phosphorous, Total	mg/L	2	0.035	<0.005
Selenium, Total Recoverable	mg/L	2	<0.0004	<0.0004
Solids, Total Dissolved	mg/L	2	577	402
Solids, Total Suspended	mg/L	2	23	<4.0
Vanadium, Total Recoverable	mg/L	2	0.014	0.0016
Zinc, Total Recoverable	mg/L	2	0.021	0.012
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		4.1
Rainfall During Sampling Event	inches	--		0.08
Total Flow During Sampling Event	gallons	--		31,000
Maximum Flow Rate During Sampling Event	gpm	--		670

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3B**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 2**

**Storm Water Outfall S06**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			6/16/2010	6/16/2010
Aluminum, Total	mg/L	2	0.16	0.78
BOD <sub>5</sub>	mg/L	2	3.2	3.1
Copper, Total Recoverable	mg/L	2	0.00069	0.0037
Iron, Total	mg/L	2	0.54	1.5
Lead, Total Recoverable	mg/L	2	<0.0005	0.0016
Oil & Grease <sup>a</sup>	mg/L	1	1.9	NR
pH	SU	1	7.1	NR
Phosphorous, Total	mg/L	2	0.042	0.066
Solids, Total Dissolved	mg/L	2	348	340
Solids, Total Suspended	mg/L	2	4.4	34
Surfactant (as LAS)	mg/L	2	<0.016	0.17
Zinc, Total Recoverable	mg/L	2	0.022	0.025
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		5.0
Rainfall During Sampling Event	inches	--		0.27
Total Flow During Sampling Event	gallons	--		34,000
Maximum Flow Rate During Sampling Event	gpm	--		310

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3B (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 2**

**Storm Water Outfall S33**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/22/2010	9/22/2010
Aluminum, Total	mg/L	2	0.78	2.1
BOD <sub>5</sub>	mg/L	2	8.9	2.8
Copper, Total Recoverable	mg/L	2	0.0045	0.0032
Iron, Total	mg/L	2	16	14
Lead, Total Recoverable	mg/L	2	0.0050	0.0029
Oil & Grease <sup>a</sup>	mg/L	1	1.5	NR
pH	SU	1	7.4	NR
Phosphorous, Total	mg/L	2	0.93	<0.005
Solids, Total Dissolved	mg/L	2	320	342
Solids, Total Suspended	mg/L	2	1,010	125
Surfactant (as LAS)	mg/L	2	<0.013	0.070
Zinc, Total Recoverable	mg/L	2	0.034	0.024
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		5.2
Rainfall During Sampling Event	inches	--		0.26
Total Flow During Sampling Event	gallons	--		4,700
Maximum Flow Rate During Sampling Event	gpm	--		95

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3C**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 3**

**Storm Water Outfall S09**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			6/1/2010	6/1/2010
Alpha-BHC	mg/L	2	<0.0000048	<0.0000046
Aluminum, Total	mg/L	2	16	11
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.024	0.017
BOD <sub>5</sub>	mg/L	2	3.5	2.9
Copper, Total Recoverable	mg/L	2	0.034	0.029
Iron, Total	mg/L	2	18	12
Lead, Total Recoverable	mg/L	2	0.051	0.038
Nitrogen, Nitrate (as N)	mg/L	2	0.38	0.39
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	0.020
Nitrogen, Total (as N)	mg/L	2	<1.3	<1.0
Nitrogen, Total Kjeldahl	mg/L	2	0.92	0.64
Oil & Grease <sup>a</sup>	mg/L	1	<1.4	NR
pH	SU	1	8.3	NR
Phosphorous, Total	mg/L	2	0.67	0.39
Solids, Total Dissolved	mg/L	2	574	623
Solids, Total Suspended	mg/L	2	660	860
Zinc, Total Recoverable	mg/L	2	0.048	0.053
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		8.1
Rainfall During Sampling Event	inches	--		0.39
Total Flow During Sampling Event	gallons	--		3,100
Maximum Flow Rate During Sampling Event	gpm	--		91

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3C (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 3**

**Storm Water Outfall S12**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/22/2010	9/22/2010
Alpha-BHC	mg/L	3	<0.000005 / <0.000005	<0.000005
Aluminum, Total	mg/L	3	2.9 / 4.5	1.3
Ammonia (as NH <sub>3</sub> )	mg/L	3	0.027 / 0.037	0.054
BOD <sub>5</sub>	mg/L	3	5.9 / 4.8	<2.0
Copper, Total Recoverable	mg/L	3	0.012 / 0.011	0.0047
Iron, Total	mg/L	3	6.1 / 7.8	1.5
Lead, Total Recoverable	mg/L	3	0.0055 / 0.0045	0.0012
Nitrogen, Nitrate (as N)	mg/L	3	0.15 / 0.14	0.20
Nitrogen, Nitrite (as N)	mg/L	3	<0.020 / <0.020	<0.020
Nitrogen, Total (as N)	mg/L	3	<0.80 / <0.76	<0.64
Nitrogen, Total Kjeldahl	mg/L	3	0.63 / 0.60	0.42
Oil & Grease <sup>a</sup>	mg/L	2	<1.4 / <1.4	NR
pH	SU	2	7.3 / 7.3	NR
Phosphorous, Total	mg/L	3	0.30 / 0.44	0.063
Solids, Total Dissolved	mg/L	3	211 / 229	182
Solids, Total Suspended	mg/L	3	130 / 25	24
Zinc, Total Recoverable	mg/L	3	0.067 / 0.060	0.026
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		5.2
Rainfall During Sampling Event	inches	--		0.26
Total Flow During Sampling Event	gallons	--		43,000
Maximum Flow Rate During Sampling Event	gpm	--		700

Note: The first flush grab samples were sampled and analyzed in duplicate.

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3D**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 4**

**Storm Water Outfall S34**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			3/22/2010	3/22/2010
Aluminum, Total	mg/L	2	2.3	14
BOD <sub>5</sub>	mg/L	2	<2.0	<2.0
Copper, Total Recoverable	mg/L	2	0.0024	0.011
Iron, Total	mg/L	2	2.0	11
Lead, Total Recoverable	mg/L	2	0.0011	0.0051
Oil & Grease <sup>a</sup>	mg/L	1	<1.4	NR
pH	SU	1	7.6	NR
Phosphorous, Total	mg/L	2	<0.005	<0.005
Solids, Total Dissolved	mg/L	2	237	308
Solids, Total Suspended	mg/L	2	37	170
Surfactant (as LAS)	mg/L	2	<0.013	0.045
Zinc, Total Recoverable	mg/L	2	0.023	0.065
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		6.8
Rainfall During Sampling Event	inches	--		0.32
Total Flow During Sampling Event	gallons	--		36,000
Maximum Flow Rate During Sampling Event	gpm	--		250

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3D (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 4**

**Storm Water Outfall S34**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/22/2010	9/22/2010
Aluminum, Total	mg/L	2	2.7	5.3
BOD <sub>5</sub>	mg/L	2	2.6	3.0
Copper, Total Recoverable	mg/L	2	0.0040	0.0050
Iron, Total	mg/L	2	3.4	5.9
Lead, Total Recoverable	mg/L	2	0.0026	0.0038
Oil & Grease <sup>a</sup>	mg/L	1	<1.5	NR
pH	SU	1	7.6	NR
Phosphorous, Total	mg/L	2	0.13	0.089
Solids, Total Dissolved	mg/L	2	253	214
Solids, Total Suspended	mg/L	2	160	115
Surfactant (as LAS)	mg/L	2	0.065	0.048
Zinc, Total Recoverable	mg/L	2	0.046	0.054
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		5.2
Rainfall During Sampling Event	inches	--		0.26
Total Flow During Sampling Event	gallons	--		44,000
Maximum Flow Rate During Sampling Event	gpm	--		1,100

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3E**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 5**

**Storm Water Outfall S14**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			5/18/2010	5/18/2010
Aluminum, Total	mg/L	2	0.14	0.15
Ammonia (as NH <sub>3</sub> )	mg/L	2	<0.009	<0.009
BOD <sub>5</sub>	mg/L	2	2.4	<2.0
Copper, Total Recoverable	mg/L	2	0.0014	0.0013
Iron, Total	mg/L	2	0.28	0.28
Lead, Total Recoverable	mg/L	2	0.0001	0.0002
Nitrogen, Nitrate (as N)	mg/L	2	0.038	<0.011
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<0.71	<0.93
Nitrogen, Total Kjeldahl	mg/L	2	0.65	0.90
Oil & Grease <sup>a</sup>	mg/L	1	<1.5	NR
pH	SU	1	7.4	NR
Phosphorous, Total	mg/L	2	<0.005	0.017
Solids, Settleable	ml/L	2	0.1	<0.1
Solids, Total Dissolved	mg/L	2	401	397
Solids, Total Suspended	mg/L	2	5.6	<4.0
Sulfide	mg/L	2	<0.052	<0.052
Surfactant (as LAS)	mg/L	2	<0.013	<0.013
Vanadium, Total Recoverable	mg/L	2	<0.0011	<0.0011
Zinc, Total Recoverable	mg/L	2	0.010	0.0037
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		7.3
Rainfall During Sampling Event	inches	--		0.33
Total Flow During Sampling Event	gallons	--		37
Maximum Flow Rate During Sampling Event	gpm	--		0.32

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3E (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 5**

**Storm Water Outfall S17**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/22/2010	9/22/2010
Aluminum, Total	mg/L	2	3.1	6.0
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.16	0.034
BOD <sub>5</sub>	mg/L	2	8.8	4.2
Copper, Total Recoverable	mg/L	2	0.0049	0.0069
Iron, Total	mg/L	2	1.9	3.5
Lead, Total Recoverable	mg/L	2	0.0021	0.0044
Nitrogen, Nitrate (as N)	mg/L	2	0.53	0.52
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<1.5	<1.4
Nitrogen, Total Kjeldahl	mg/L	2	0.93	0.87
Oil & Grease <sup>a</sup>	mg/L	1	<1.4	NR
pH	SU	1	7.6	NR
Phosphorous, Total	mg/L	2	0.11	0.11
Solids, Settleable	ml/L	2	0.2	<0.1
Solids, Total Dissolved	mg/L	2	329	234
Solids, Total Suspended	mg/L	2	183	117
Sulfide	mg/L	2	<0.052	<0.052
Surfactant (as LAS)	mg/L	2	<0.013	0.016
Vanadium, Total Recoverable	mg/L	2	0.0057	0.0068
Zinc, Total Recoverable	mg/L	2	0.018	0.026
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		5.2
Rainfall During Sampling Event	inches	--		0.26
Total Flow During Sampling Event	gallons	--		77,000
Maximum Flow Rate During Sampling Event	gpm	--		1,100

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3F**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 6**

**Storm Water Outfall S41**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			5/18/2010	5/18/2010
Aluminum, Total	mg/L	2	2.9	4.1
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.009	0.031
BOD <sub>5</sub>	mg/L	2	<2.0	<2.0
Copper, Total Recoverable	mg/L	2	0.0026	0.0037
Iron, Total	mg/L	2	2.2	2.3
Lead, Total Recoverable	mg/L	2	0.0009	0.0011
Nitrogen, Nitrate (as N)	mg/L	2	0.042	0.099
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	0.033
Nitrogen, Total (as N)	mg/L	2	<0.90	1.1
Nitrogen, Total Kjeldahl	mg/L	2	0.84	1.0
Oil & Grease <sup>a</sup>	mg/L	1	2.9	NR
pH	SU	1	8.1	NR
Phosphorous, Total	mg/L	2	<0.005	0.054
Solids, Settleable	ml/L	2	<0.1	<0.1
Solids, Total Dissolved	mg/L	2	416	404
Solids, Total Suspended	mg/L	2	23	21
Sulfide	mg/L	2	<0.052	<0.052
Surfactant (as LAS)	mg/L	2	<0.013	<0.013
Vanadium, Total Recoverable	mg/L	2	0.0041	0.0062
Zinc, Total Recoverable	mg/L	2	0.059	0.016
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		7.3
Rainfall During Sampling Event	inches	--		0.32
Total Flow During Sampling Event	gallons	--		1,600
Maximum Flow Rate During Sampling Event	gpm	--		21

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3F (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 6**

**Storm Water Outfall S42**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			11/17/2010	11/17/2010
Aluminum, Total	mg/L	2	0.079	0.089
Ammonia (as NH <sub>3</sub> )	mg/L	2	<0.009	<0.009
BOD <sub>5</sub>	mg/L	2	<2.0	<2.0
Copper, Total Recoverable	mg/L	2	0.011	0.0063
Iron, Total	mg/L	2	0.12	0.22
Lead, Total Recoverable	mg/L	2	0.00007	0.0002
Nitrogen, Nitrate (as N)	mg/L	2	0.40	0.33
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<0.58	<0.56
Nitrogen, Total Kjeldahl	mg/L	2	0.16	0.21
Oil & Grease <sup>a</sup>	mg/L	1	<1.6	NR
pH	SU	1	7.6	NR
Phosphorous, Total	mg/L	2	0.0055	0.0055
Solids, Settleable	ml/L	2	<0.1	<0.1
Solids, Total Dissolved	mg/L	2	2,600	2,300
Solids, Total Suspended	mg/L	2	<4.0	<4.0
Sulfide	mg/L	2	<0.052	<0.052
Surfactant (as LAS)	mg/L	2	0.039	0.048
Vanadium, Total Recoverable	mg/L	2	<0.0011	<0.0011
Zinc, Total Recoverable	mg/L	2	0.0027	0.0021
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		7.5
Rainfall During Sampling Event	inches	--		0.13
Total Flow During Sampling Event	gallons	--		4,000
Maximum Flow Rate During Sampling Event	gpm	--		530

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3G**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 7**

**Storm Water Outfall S20**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			3/22/2010	3/22/2010
Aluminum, Total	mg/L	2	4.4	0.86
Ammonia (as NH <sub>3</sub> )	mg/L	2	<0.009	0.16
BOD <sub>5</sub>	mg/L	2	<2.0	2.8
Copper, Total Recoverable	mg/L	2	0.0034	0.0013
Iron, Total	mg/L	2	4.3	0.77
Lead, Total Recoverable	mg/L	2	0.0021	0.00050
Nitrogen, Nitrate (as N)	mg/L	2	0.64	0.42
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<0.86	<0.61
Nitrogen, Total Kjeldahl	mg/L	2	0.20	0.17
Oil & Grease <sup>a</sup>	mg/L	1	<1.4	NR
pH	SU	1	7.2	NR
Phosphorous, Total	mg/L	2	<0.005	<0.005
Solids, Total Dissolved	mg/L	2	272	67.0
Solids, Total Suspended	mg/L	2	99	14
Sulfide	mg/L	2	<0.022	<0.022
Surfactant (as LAS)	mg/L	2	<0.013	0.021
Zinc, Total Recoverable	mg/L	2	0.017	0.0057
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1	6.8	
Total Rainfall During Sampling Event	inches	--	0.32	
Total Flow During Sampling Event	gallons	--	43,000	
Maximum Flow Rate During Sampling Event	gpm	--	300	

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3G (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 7**

**Storm Water Outfall S20**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/16/2010	9/16/2010
Aluminum, Total	mg/L	2	0.88	0.35
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.83	0.63
BOD <sub>5</sub>	mg/L	2	8.9	5.1
Copper, Total Recoverable	mg/L	2	0.0021	0.0012
Iron, Total	mg/L	2	2.0	0.53
Lead, Total Recoverable	mg/L	2	0.0007	0.0004
Nitrogen, Nitrate (as N)	mg/L	2	1.6	1.0
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<3.0	<1.8
Nitrogen, Total Kjeldahl	mg/L	2	1.3	0.75
Oil & Grease <sup>a</sup>	mg/L	1	<1.5	NR
pH	SU	1	7.8	NR
Phosphorous, Total	mg/L	2	0.052	<0.005
Solids, Total Dissolved	mg/L	2	111	86
Solids, Total Suspended	mg/L	2	12	5.6
Sulfide	mg/L	2	<0.052	<0.052
Surfactant (as LAS)	mg/L	2	0.075	<0.013
Zinc, Total Recoverable	mg/L	2	0.014	0.0079
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		4.1
Total Rainfall During Sampling Event	inches	--		0.08
Total Flow During Sampling Event	gallons	--		59,000
Maximum Flow Rate During Sampling Event	gpm	--		500

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3H**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 8**

**Storm Water Outfall S27**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			5/18/2010	5/18/2010
Aluminum, Total	mg/L	3	14 / 8.0	4.3
Ammonia (as NH <sub>3</sub> )	mg/L	3	0.009 / <0.009	0.027
BOD <sub>5</sub>	mg/L	3	<2.0 / <2.0	<2.0
Copper, Total Recoverable	mg/L	3	0.0098 / 0.0070	0.0037
Iron, Total	mg/L	3	15 / 8.6	2.9
Lead, Total Recoverable	mg/L	3	0.011 / 0.0067	0.0023
Nitrogen, Nitrate (as N)	mg/L	3	0.020 / 0.028	<0.011
Nitrogen, Nitrite (as N)	mg/L	3	<0.020 / <0.020	<0.020
Nitrogen, Total (as N)	mg/L	3	<5.0 / <1.5	<0.77
Nitrogen, Total Kjeldahl	mg/L	3	5.0 / 1.4	0.74
Oil & Grease <sup>a</sup>	mg/L	2	<1.5 / 1.8	NR
pH	SU	1	7.9	NR
Phosphorous, Total	mg/L	3	<0.005 / <0.005	<0.005
Solids, Total Dissolved	mg/L	3	180 / 220	220
Solids, Total Suspended	mg/L	3	100 / 600	58
Surfactant (as LAS)	mg/L	3	<0.013 / <0.013	<0.013
Zinc, Total Recoverable	mg/L	3	0.060 / 0.046	0.015
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		7.3
Rainfall During Sampling Event	inches	--		0.32
Total Flow During Sampling Event	gallons	--		1,800
Maximum Flow Rate During Sampling Event	gpm	--		18

Note: The first flush grab samples were sampled and analyzed in duplicate.

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.

**TABLE B-3H (concluded)**  
**2010 Storm Water Discharge Monitoring Data for Outfall Group 8**

**Storm Water Outfall S35**

Analyte	Units	N	First Flush Grab	Flow-weighted Composite
			9/22/2010	9/22/2010
Aluminum, Total	mg/L	2	1.0	3.4
Ammonia (as NH <sub>3</sub> )	mg/L	2	0.088	0.067
BOD <sub>5</sub>	mg/L	2	2.3	<2.0
Copper, Total Recoverable	mg/L	2	0.0037	0.0037
Iron, Total	mg/L	2	0.74	2.0
Lead, Total Recoverable	mg/L	2	0.0053	0.0068
Nitrogen, Nitrate (as N)	mg/L	2	0.67	0.33
Nitrogen, Nitrite (as N)	mg/L	2	<0.020	<0.020
Nitrogen, Total (as N)	mg/L	2	<1.7	<1.4
Nitrogen, Total Kjeldahl	mg/L	2	1.0	1.0
Oil & Grease <sup>a</sup>	mg/L	1	<1.5	NR
pH	SU	1	7.2	NR
Phosphorous, Total	mg/L	2	0.096	0.087
Solids, Total Dissolved	mg/L	2	400	338
Solids, Total Suspended	mg/L	2	170	86
Surfactant (as LAS)	mg/L	2	0.033	0.093
Zinc, Total Recoverable	mg/L	2	0.023	0.023
<b>Rain Event Summary</b>				
pH of Rainfall During Sampling Event	SU	1		5.2
Rainfall During Sampling Event	inches	--		0.26
Total Flow During Sampling Event	gallons	--		49,000
Maximum Flow Rate During Sampling Event	gpm	--		385

gpm - gallons per minute

N - Number of samples

NR - Not required by permit

<sup>a</sup> The SPDES permit specifies that oil and grease concentrations shall not exceed 15 mg/L.