

TABLE E-1
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 237A
 Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO3)	85.4	126.0		102.0	39	39	100%							
pH (pH units)	6.8	7.8		7.40	39	39	100%							
TSS (mg/L)	0.26	16.30	3.33	2.20	34	39	87%	0.26	7.56	3.47	1.04	0.56	4.45	2.20
Metals in ug/L														
Lead	0.23	6.11	1.43	0.91	16	38	42%	0.34	3.10	1.35	0.94	0.22	1.88	0.99
Mercury	0.025	0.196	0.031	0.025	3	38	8%	0.025	0.025	0.028	0.911	0.005	0.041	0.022
Zinc	1.6	27.0	9.7	9.4	36	37	97%	5.26	14.06	4.58	0.47	0.75	11.24	8.19
Dissolved Lead	0.08	4.50	0.96	0.68	8	38	21%	0.13	1.90	0.92	0.95	0.15	1.27	0.66
Dissolved Mercury	0.025	0.135	0.029	0.025	2	37	5%	0.025	0.025	0.019	0.645	0.003	0.035	0.023
Dissolved Zinc	2.30	12.2	7.88	7.51	36	37	97%	4.30	11.60	2.84	0.36	0.47	8.82	6.93
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	2.100	0.069	0.005	10	39	26%	0.002	0.021	0.338	4.872	0.054	0.179	-0.040
Acenaphthene	0.002	0.031	0.005	0.005	2	39	5%	0.002	0.005	0.005	0.938	0.001	0.007	0.003
Acenaphthylene	0.002	0.016	0.004	0.005	1	39	3%	0.002	0.005	0.002	0.544	0.000	0.005	0.004
Anthracene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.310	0.000	0.005	0.004
Fluorene	0.002	0.086	0.007	0.005	5	39	13%	0.002	0.005	0.013	1.912	0.002	0.011	0.003
Naphthalene	0.002	3.000	0.097	0.011	22	39	56%	0.005	0.038	0.479	4.946	0.077	0.252	-0.058
Phenanthrene	0.002	0.149	0.012	0.005	15	39	38%	0.004	0.016	0.024	1.992	0.004	0.020	0.004
*Total LPAHs ¹	0.010	3.276	0.130	0.035				0.015	0.078	0.520	4.007			
HPAHs														
Benzo(a)anthracene	0.001	0.022	0.006	0.005	10	39	26%	0.002	0.014	0.005	0.723	0.001	0.008	0.005
Benzo(a)pyrene	0.001	0.020	0.006	0.005	7	39	18%	0.002	0.011	0.004	0.753	0.001	0.007	0.004
Benzo(g,h,i)perylene	0.002	0.022	0.007	0.005	8	39	21%	0.004	0.014	0.005	0.706	0.001	0.008	0.005
Benzo(b,k)fluoranthenes	0.002	0.047	0.011	0.005	17	39	44%	0.003	0.028	0.012	1.021	0.002	0.015	0.008
Chrysene	0.002	0.026	0.007	0.005	10	39	26%	0.002	0.016	0.006	0.918	0.001	0.009	0.005
Dibenz(a,h)anthracene	0.003	0.010	0.005	0.005	1	39	3%	0.004	0.005	0.001	0.229	0.000	0.005	0.004
Fluoranthene	0.003	0.046	0.011	0.005	16	39	41%	0.003	0.028	0.011	0.997	0.002	0.015	0.007
Indeno(1,2,3-c,d)pyrene	0.003	0.018	0.006	0.005	6	39	15%	0.004	0.011	0.004	0.616	0.001	0.007	0.005
Pyrene	0.002	0.056	0.014	0.006	23	39	59%	0.003	0.033	0.014	0.981	0.002	0.018	0.009
*Total HPAHs ²	0.012	0.249	0.071	0.048				0.021	0.172	0.058	0.825			
*Total PAHs ³	0.023	3.464	0.201	0.094				0.041	0.274	0.543	2.707			
Phenols in ug/L														
4-Methylphenol	0.005	0.163	0.022	0.010	5	16	31%	0.005	0.047	0.040	1.801	0.010	0.044	0.001
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.2	1.6	0.6	0.5	12	38	32%	0.5	1.1	0.3	0.5	0.0	0.7	0.5
Butylbenzylphthalate	0.05	0.5	0.4	0.5	3	39	8%	0.1	0.5	0.2	0.5	0.0	0.4	0.3
Diethylphthalate	0.035	32.0	2.2	0.5	12	39	31%	0.1	1.3	6.3	2.9	1.0	4.2	0.1
Dimethylphthalate	0.016	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butylphthalate	0.05	0.5	0.4	0.5	6	39	15%	0.2	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.5	0.0	0.4	0.3
*Total Phthalates ⁴		32.0												

TABLE E-1 (Cont'd)
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 237ANew
Water Years 2006-2010

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO3)	95.3	116.0		110.0	21	21	100%							
pH (pH units)	6.5	7.7		7.30	21	21	100%							
TSS (mg/L)	0.26	26.80	3.41	1.80	18	21	86%	0.26	5.41	5.78	1.69	1.26	6.04	0.78
Metals in ug/L														
Lead	0.14	4.60	1.46	1.30	7	18	39%	0.30	3.10	1.21	0.83	0.28	2.06	0.86
Mercury	0.025	0.025	0.025	0.025	0	21	0%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Zinc	3.24	26.60	10.24	9.70	19	19	100%	4.17	16.48	5.63	0.55	1.29	12.95	7.52
Dissolved Lead	0.01	3.20	0.98	0.75	5	18	28%	0.10	2.83	0.99	1.01	0.23	1.47	0.49
Dissolved Mercury	0.025	0.078	0.028	0.025	1	20	5%	0.025	0.025	0.012	0.429	0.003	0.033	0.022
Dissolved Zinc	3.14	31.20	8.87	7.60	19	19	100%	3.93	14.52	6.38	0.72	1.46	11.95	5.80
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.022	0.005	0.005	5	21	24%	0.002	0.005	0.004	0.869	0.001	0.007	0.003
Acenaphthene	0.002	0.005	0.004	0.005	1	21	5%	0.002	0.005	0.002	0.478	0.000	0.004	0.003
Acenaphthylene	0.002	0.005	0.003	0.004	0	21	0%	0.002	0.005	0.002	0.504	0.000	0.004	0.003
Anthracene	0.002	0.005	0.004	0.005	1	21	5%	0.002	0.005	0.001	0.401	0.000	0.004	0.003
Fluorene	0.002	0.005	0.004	0.005	2	21	10%	0.002	0.005	0.002	0.446	0.000	0.004	0.003
Naphthalene	0.002	0.017	0.007	0.005	9	21	43%	0.003	0.014	0.004	0.605	0.001	0.009	0.005
Phenanthrene	0.002	0.031	0.006	0.005	8	21	38%	0.002	0.011	0.006	0.980	0.001	0.009	0.004
*Total LPAHs ¹	0.010	0.065	0.028	0.030				0.011	0.042	0.013	0.479			
HPAHs														
Benzo(a)anthracene	0.001	0.019	0.005	0.005	2	21	10%	0.001	0.005	0.004	0.864	0.001	0.006	0.003
Benzo(a)pyrene	0.002	0.036	0.006	0.005	4	21	19%	0.002	0.009	0.008	1.277	0.002	0.010	0.003
Benzo(g,h,i)perylene	0.003	0.024	0.006	0.005	3	21	14%	0.004	0.008	0.005	0.776	0.001	0.008	0.004
Benzo(b,k)fluoranthenes	0.002	0.058	0.009	0.005	7	21	33%	0.002	0.017	0.012	1.343	0.003	0.015	0.004
Chrysene	0.002	0.029	0.005	0.005	4	21	19%	0.002	0.009	0.006	1.124	0.001	0.008	0.003
Dibenz(a,h)anthracene	0.003	0.008	0.005	0.005	1	21	5%	0.004	0.005	0.001	0.243	0.000	0.005	0.004
Fluoranthene	0.002	0.043	0.008	0.005	6	21	29%	0.003	0.019	0.010	1.167	0.002	0.013	0.004
Indeno(1,2,3-c,d)pyrene	0.003	0.035	0.006	0.005	3	21	14%	0.003	0.010	0.007	1.150	0.002	0.010	0.003
Pyrene	0.002	0.163	0.014	0.005	9	21	43%	0.002	0.017	0.034	2.398	0.008	0.030	-0.001
*Total HPAHs ²	0.022	0.383	0.065	0.045				0.022	0.089	0.079	1.217			
*Total PAHs ³	0.032	0.448	0.093	0.075				0.033	0.121	0.090	0.966			
Phenols in ug/L														
4-Methylphenol														
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.3	0.7	0.5	0.5	6	21	29%	0.4	0.5	0.1	0.2	0.0	0.5	0.4
Butylbenzylphthalate	0.045	0.5	0.3	0.2	2	21	10%	0.1	0.5	0.2	0.7	0.0	0.4	0.2
Diethylphthalate	0.04	1.9	0.4	0.5	4	21	19%	0.1	0.5	0.5	1.1	0.1	0.7	0.2
Dimethylphthalate	0.016	0.5	0.3	0.1	0	21	0%	0.0	0.5	0.2	1.0	0.1	0.4	0.1
Di-n-butylphthalate	0.05	0.5	0.3	0.5	5	21	24%	0.1	0.5	0.2	0.5	0.0	0.4	0.3
Di-n-octyl phthalate	0.042	1.0	0.3	0.3	0	21	0%	0.0	0.5	0.3	0.9	0.1	0.4	0.2
*Total Phthalates ⁴		1.8												

TABLE E-2
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 237B
 Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO3)	61.0	129		113.0	39	39								
pH (pH units)	5.9	7.8		7.2	39	39								
TSS (mg/L)	0.26	16.90	2.52	1.28	36	39	92%	0.55	3.86	3.68	1.46	0.59	3.71	1.32
Metals in ug/L														
Lead	0.07	6.60	0.99	0.63	10	38	26%	0.15	1.65	1.23	1.24	0.20	1.40	0.59
Mercury	0.025	0.025	0.025	0.025	5	38	13%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Zinc	1.05	14.20	4.47	3.90	24	39	62%	2.07	6.96	2.47	0.55	0.40	5.27	3.67
Dissolved Lead	0.02	4.00	0.96	0.65	14	38	37%	0.12	1.93	0.95	0.99	0.15	1.28	0.65
Dissolved Mercury	0.025	0.025	0.025	0.025	0	38	0%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Dissolved Zinc	0.60	14.30	4.71	3.79	26	39	67%	1.89	8.59	3.07	0.65	0.49	5.71	3.71
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.019	0.005	0.005	4	39	10%	0.002	0.005	0.003	0.639	0.001	0.006	0.004
Acenaphthene	0.002	0.005	0.004	0.005	2	39	5%	0.002	0.005	0.001	0.324	0.000	0.005	0.004
Acenaphthylene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.358	0.000	0.005	0.004
Anthracene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.310	0.000	0.005	0.004
Fluorene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.356	0.000	0.005	0.004
Naphthalene	0.002	0.025	0.008	0.005	13	39	33%	0.004	0.013	0.005	0.611	0.001	0.009	0.006
Phenanthrene	0.002	0.005	0.004	0.005	3	39	8%	0.002	0.005	0.001	0.291	0.000	0.005	0.004
*Total LPAHs ¹	0.008	0.050	0.028	0.030				0.013	0.037	0.010	0.342			
HPAHs														
Benzo(a)anthracene	0.001	0.045	0.005	0.005	4	39	10%	0.001	0.005	0.007	1.229	0.001	0.008	0.003
Benzo(a)pyrene	0.002	0.041	0.005	0.005	2	39	5%	0.002	0.005	0.006	1.154	0.001	0.007	0.003
Benzo(g,h,i)perylene	0.003	0.044	0.006	0.005	2	39	5%	0.004	0.005	0.006	1.095	0.001	0.008	0.004
Benzo(b,k)fluoranthenes	0.002	0.107	0.008	0.005	7	39	18%	0.002	0.011	0.017	2.068	0.003	0.013	0.003
Chrysene	0.002	0.060	0.006	0.005	2	39	5%	0.002	0.005	0.009	1.628	0.001	0.009	0.003
Dibenz(a,h)anthracene	0.003	0.011	0.005	0.005	1	39	3%	0.004	0.005	0.001	0.255	0.000	0.005	0.004
Fluoranthene	0.003	0.088	0.007	0.005	4	39	10%	0.003	0.005	0.014	1.943	0.002	0.011	0.003
Indeno(1,2,3-c,d)pyrene	0.003	0.039	0.005	0.005	1	39	3%	0.004	0.005	0.006	1.041	0.001	0.007	0.004
Pyrene	0.002	0.078	0.008	0.005	11	39	28%	0.003	0.011	0.012	1.577	0.002	0.011	0.004
*Total HPAHs ²	0.011	0.513	0.054	0.045				0.024	0.056	0.076	1.421			
*Total PAHs ³	0.020	0.543	0.082	0.075				0.035	0.093	0.079	0.956			
Phenols in ug/L														
4-Methylphenol	0.005	0.104	0.012	0.005	2	16	13%	0.005	0.008	0.025	2.148	0.006	0.025	-0.002
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.3	0.8	0.5	0.5	6	38	16%	0.4	0.5	0.1	0.2	0.0	0.5	0.5
Butylbenzylphthalate	0.05	0.5	0.4	0.5	1	39	3%	0.1	0.5	0.2	0.5	0.0	0.4	0.3
Diethylphthalate	0.04	17.0	1.1	0.5	9	39	23%	0.1	1.3	2.8	2.6	0.4	2.0	0.2
Dimethylphthalate	0.016	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butylphthalate	0.05	0.5	0.4	0.5	6	39	15%	0.1	0.5	0.2	0.4	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.5	0.0	0.4	0.3
*Total Phthalates ⁴		17.0												

TABLE E-3
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 230
Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO3)	27.9	249		142.0	38	38	100%							
pH (pH units)	7.1	9.0		7.7	38	38	100%							
TSS (mg/L)	0.90	319.00	16.44	5.95	38	38	100%	1.52	20.21	51.07	3.11	8.28	33.23	-0.34
Metals in ug/L														
Lead	0.99	29.80	5.81	4.36	28	38	74%	1.61	10.31	5.85	1.01	0.95	7.73	3.89
Mercury	0.025	0.083	0.031	0.025	6	38	16%	0.025	0.056	0.015	0.477	0.002	0.036	0.026
Zinc	19.3	101.0	46.0	34.0	37	37	100%	22.70	82.20	24.16	0.52	3.97	54.08	37.97
Dissolved Lead	0.14	5.50	1.72	1.40	16	38	42%	0.46	3.20	1.27	0.74	0.21	2.14	1.30
Dissolved Mercury	0.025	0.059	0.026	0.025	1	38	3%	0.025	0.025	0.006	0.213	0.001	0.028	0.024
Dissolved Zinc	6.4	95.0	28.8	23.7	37	37	100%	10.70	46.52	19.33	0.67	3.18	35.27	22.38
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.122	0.015	0.005	19	38	50%	0.003	0.032	0.023	1.534	0.004	0.022	0.007
Acenaphthene	0.002	0.013	0.005	0.005	5	38	13%	0.002	0.006	0.003	0.506	0.000	0.006	0.004
Acenaphthylene	0.002	0.005	0.004	0.005	0	38	0%	0.002	0.005	0.001	0.341	0.000	0.005	0.004
Anthracene	0.002	0.012	0.004	0.005	1	38	3%	0.002	0.005	0.002	0.400	0.000	0.005	0.004
Fluorene	0.002	0.012	0.005	0.005	5	38	13%	0.003	0.005	0.002	0.358	0.000	0.005	0.004
Naphthalene	0.005	0.228	0.027	0.013	27	38	71%	0.005	0.073	0.042	1.555	0.007	0.040	0.013
Phenanthrene	0.002	0.084	0.014	0.011	25	38	66%	0.005	0.022	0.015	1.118	0.003	0.019	0.009
*Total LPAHs ¹	0.016	0.270	0.059	0.045				0.025	0.111	0.052	0.869			
HPAHs														
Benzo(a)anthracene	0.001	0.066	0.008	0.005	8	38	21%	0.001	0.013	0.011	1.407	0.002	0.011	0.004
Benzo(a)pyrene	0.002	0.057	0.007	0.005	6	38	16%	0.002	0.012	0.009	1.340	0.001	0.010	0.004
Benzo(g,h,i)perylene	0.004	0.036	0.008	0.005	12	38	32%	0.004	0.015	0.007	0.828	0.001	0.010	0.006
Benzo(b,k)fluoranthenes	0.002	0.113	0.014	0.008	19	38	50%	0.002	0.025	0.019	1.365	0.003	0.020	0.008
Chrysene	0.002	0.087	0.010	0.005	17	38	45%	0.002	0.018	0.014	1.374	0.002	0.015	0.006
Dibenz(a,h)anthracene	0.003	0.014	0.005	0.005	5	38	13%	0.004	0.007	0.002	0.419	0.000	0.006	0.005
Fluoranthene	0.003	0.133	0.017	0.012	26	38	68%	0.005	0.028	0.022	1.295	0.004	0.025	0.010
Indeno(1,2,3-c,d)pyrene	0.003	0.033	0.006	0.005	4	38	11%	0.004	0.007	0.006	0.908	0.001	0.008	0.004
Pyrene	0.004	0.173	0.022	0.015	35	38	92%	0.005	0.032	0.027	1.266	0.004	0.031	0.013
*Total HPAHs ²	0.025	0.712	0.097	0.061				0.034	0.146	0.113	1.170			
*Total PAHs ³	0.041	0.923	0.157	0.135				0.062	0.232	0.144	0.920			
Phenols in ug/L														
4-Methylphenol	0.005	0.115	0.024	0.008	1	16	6%	0.005	0.058	0.031	1.276	0.008	0.040	0.008
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.3	33.0	1.6	0.5	14	37	38%	0.4	1.7	5.3	3.3	0.9	3.4	-0.2
Butylbenzylphthalate	0.09	0.7	0.4	0.5	3	38	8%	0.1	0.5	0.2	0.4	0.0	0.5	0.4
Diethylphthalate	0.070	8.4	0.7	0.5	8	38	21%	0.2	0.5	1.4	1.9	0.2	1.2	0.3
Dimethylphthalate	0.016	0.5	0.4	0.5	0	38	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butylphthalate	0.1	0.5	0.4	0.5	6	38	16%	0.1	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	2.0	0.4	0.5	2	38	5%	0.0	0.5	0.3	0.7	0.1	0.5	0.3
*Total Phthalates ⁴		33.0												

TABLE E-4
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 235
Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO ₃)	123.0	199.0		148.0	38	38	100%							
pH (pH units)	7.1	8.0		7.7	38	38	100%							
TSS (mg/L)	1.00	258	27.81	7.37	38	38	100%	1.49	79.03	58.43	2.10	9.48	47.01	8.60
Metals in ug/L														
Lead	1.64	112	15.04	6.85	32	38	84%	3.15	30.38	24.37	1.62	3.95	23.05	7.03
Mercury	0.025	0.380	0.043	0.025	4	37	11%	0.025	0.080	0.062	1.454	0.010	0.064	0.022
Zinc	7.40	355.0	44.67	17.20	35	35	100%	10.48	73.60	80.96	1.81	13.69	72.48	16.85
Dissolved Lead	0.24	6.00	1.64	1.23	16	38	42%	0.54	3.53	1.37	0.83	0.22	2.09	1.19
Dissolved Mercury	0.025	0.025	0.025	0.025	3	36	8%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Dissolved Zinc	3.80	28.50	10.65	9.60	35	35	100%	6.35	15.60	5.15	0.48	0.87	12.42	8.88
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.040	0.007	0.005	7	38	18%	0.002	0.011	0.007	1.083	0.001	0.009	0.004
Acenaphthene	0.002	0.032	0.011	0.012	28	38	74%	0.005	0.018	0.006	0.569	0.001	0.013	0.009
Acenaphthylene	0.002	0.005	0.004	0.005	0	38	0%	0.002	0.005	0.001	0.341	0.000	0.005	0.004
Anthracene	0.002	0.031	0.006	0.005	5	38	13%	0.002	0.009	0.005	0.872	0.001	0.008	0.004
Fluorene	0.002	0.043	0.008	0.005	14	38	37%	0.002	0.014	0.007	0.939	0.001	0.010	0.005
Naphthalene	0.003	0.056	0.013	0.011	23	38	61%	0.004	0.021	0.012	0.936	0.002	0.017	0.009
Phenanthrene	0.002	0.115	0.015	0.005	15	38	39%	0.002	0.031	0.025	1.608	0.004	0.024	0.007
*Total LPAHs ¹	0.013	0.240	0.058	0.0465				0.022	0.096	0.048	0.829			
HPAHs														
Benzo(a)anthracene	0.001	0.114	0.014	0.005	11	38	29%	0.001	0.022	0.024	1.766	0.004	0.022	0.006
Benzo(a)pyrene	0.002	0.142	0.014	0.005	8	38	21%	0.002	0.023	0.030	2.127	0.005	0.024	0.004
Benzo(g,h,i)perylene	0.002	0.166	0.013	0.005	11	38	29%	0.004	0.027	0.027	2.101	0.004	0.022	0.004
Benzo(b,k)fluoranthenes	0.002	0.344	0.029	0.008	21	38	55%	0.004	0.055	0.070	2.402	0.011	0.052	0.006
Chrysene	0.002	0.199	0.020	0.005	11	38	29%	0.002	0.036	0.044	2.234	0.007	0.035	0.005
Dibenz(a,h)anthracene	0.003	0.028	0.006	0.005	4	38	11%	0.004	0.006	0.004	0.716	0.001	0.007	0.004
Fluoranthene	0.003	0.295	0.031	0.012	29	38	76%	0.005	0.054	0.060	1.926	0.010	0.051	0.011
Indeno(1,2,3-c,d)pyrene	0.003	0.115	0.009	0.005	8	38	21%	0.004	0.018	0.018	1.959	0.003	0.015	0.003
Pyrene	0.004	0.253	0.036	0.018	34	38	89%	0.005	0.067	0.057	1.575	0.009	0.055	0.017
*Total HPAHs ²	0.025	1.639	0.173	0.0705				0.041	0.299	0.320	1.854			
*Total PAHs ³	0.038	1.845	0.231	0.124				0.062	0.383	0.358	1.554			
Phenols in ug/L														
4-Methylphenol	0.005	0.055	0.016	0.005	4	16	25%	0.005	0.045	0.018	1.178	0.005	0.025	0.006
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.4	21.3	2.1	1.2	22	37	59%	0.5	3.3	3.6	1.7	0.6	3.3	0.9
Butylbenzylphthalate	0.09	1.6	0.4	0.5	5	38	13%	0.1	0.5	0.3	0.6	0.0	0.5	0.3
Diethylphthalate	0.04	15.0	1.0	0.5	9	38	24%	0.1	1.7	2.4	2.4	0.4	1.8	0.2
Dimethylphthalate	0.016	0.5	0.4	0.5	0	38	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butylphthalate	0.05	0.5	0.4	0.5	4	38	11%	0.2	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	3.9	0.5	0.5	1	38	3%	0.0	0.5	0.6	1.2	0.1	0.7	0.3
*Total Phthalates ⁴		22.9												

TABLE E-5
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 243
 Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO3)	463	2,310		1,325	38	38	100%							
pH (pH units)	6.6	7.8		7.0	37	37	100%							
TSS (mg/L)	1.5	42.7	14.2	10.8	37	37	100%	3.36	32.88	11.60	0.82	1.91	18.04	10.30
Metals in ug/L														
					15									
Lead	0.39	43.9	7.9	4.5	22	36	61%	1.90	24.00	9.61	1.22	1.60	11.16	4.65
Mercury	0.025	0.065	0.028	0.025	0	38	0%	0.025	0.025	0.010	0.352	0.002	0.031	0.025
Zinc	5.3	73.6	22.4	15.4	34	36	94%	8.84	37.55	16.24	0.73	2.71	27.85	16.86
Dissolved Lead	0.01	35.60	5.78	2.88	18	36	50%	0.10	15.25	8.06	1.40	1.34	8.51	3.05
Dissolved Mercury	0.025	0.193	0.030	0.025	0	38	0%	0.025	0.025	0.027	0.912	0.004	0.039	0.021
Dissolved Zinc	0.13	45.80	12.29	8.90	29	36	81%	4.10	23.55	9.34	0.76	1.56	15.45	9.13
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.006	0.004	0.005	3	38	8%	0.002	0.005	0.001	0.291	0.000	0.005	0.004
Acenaphthene	0.005	0.069	0.031	0.031	37	38	97%	0.012	0.054	0.017	0.533	0.003	0.036	0.026
Acenaphthylene	0.002	0.005	0.004	0.005	4	38	11%	0.002	0.005	0.001	0.302	0.000	0.005	0.004
Anthracene	0.002	0.022	0.007	0.005	11	38	29%	0.003	0.013	0.005	0.697	0.001	0.008	0.005
Fluorene	0.002	0.013	0.005	0.005	11	38	29%	0.003	0.010	0.003	0.501	0.000	0.006	0.004
Naphthalene	0.001	0.017	0.008	0.005	17	38	45%	0.005	0.015	0.004	0.527	0.001	0.009	0.007
Phenanthrene	0.002	0.057	0.011	0.005	19	38	50%	0.004	0.023	0.013	1.197	0.002	0.015	0.007
*Total LPAHs ¹	0.025	0.151	0.066	0.061				0.038	0.103	0.028	0.426			
HPAHs														
Benzo(a)anthracene	0.001	0.055	0.009	0.005	12	38	32%	0.001	0.015	0.010	1.179	0.002	0.012	0.005
Benzo(a)pyrene	0.002	0.042	0.007	0.005	4	38	11%	0.002	0.010	0.008	1.204	0.001	0.009	0.004
Benzo(g,h,i)perylene	0.004	0.046	0.008	0.005	7	38	18%	0.004	0.013	0.009	1.108	0.001	0.011	0.005
Benzo(b,k)fluoranthenes	0.002	0.105	0.014	0.005	16	38	42%	0.005	0.025	0.023	1.636	0.004	0.022	0.007
Chrysene	0.002	0.098	0.012	0.005	11	38	29%	0.003	0.028	0.021	1.728	0.003	0.019	0.005
Dibenz(a,h)anthracene	0.003	0.012	0.005	0.005	0	38	0%	0.004	0.005	0.001	0.281	0.000	0.005	0.004
Fluoranthene	0.003	0.133	0.023	0.016	32	38	84%	0.005	0.044	0.025	1.093	0.004	0.031	0.015
Indeno(1,2,3-c,d)pyrene	0.003	0.034	0.006	0.005	3	38	8%	0.004	0.005	0.006	1.022	0.001	0.008	0.004
Pyrene	0.005	0.116	0.032	0.022	37	38	97%	0.014	0.063	0.027	0.846	0.004	0.041	0.023
*Total HPAHs ²	0.031	0.606	0.115	0.074				0.053	0.199	0.123	1.068			
*Total PAHs ³	0.055	0.757	0.182	0.133				0.092	0.298	0.143	0.789			
Phenols in ug/L														
4-Methylphenol	0.005	0.099	0.014	0.005	6	16	38%	0.005	0.017	0.023	1.695	0.006	0.026	0.001
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.4	16.0	1.1	0.5	9	37	24%	0.5	1.0	2.6	2.4	0.4	2.0	0.2
Butylbenzylphthalate	0.085	1.8	0.4	0.5	3	38	8%	0.1	0.5	0.3	0.6	0.0	0.5	0.4
Diethylphthalate	0.05	10.0	0.8	0.5	9	38	24%	0.1	1.1	1.6	2.1	0.3	1.3	0.2
Dimethylphthalate	0.016	0.5	0.4	0.5	1	38	3%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
Di-n-butylphthalate	0.05	4.3	0.6	0.5	8	38	21%	0.3	0.5	0.6	1.1	0.1	0.8	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	2	38	5%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
*Total Phthalates ⁴		22.9												

TABLE E-6
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 245
Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO3)	136	2,880	909.23	891.00	39	39	100%	382.40	1468.00	524.51	0.58	83.99	1079.26	739.20
pH (pH units)	7.1	8.0		7.3	39	39	100%							
TSS (mg/L)	0.26	78.90	9.89	6.90	38	39	97%	2.16	19.60	13.16	1.33	2.11	14.16	5.63
Metals in ug/L														
Lead	0.14	18.20	4.08	2.58	18	37	49%	0.38	11.94	4.63	1.13	0.76	5.63	2.54
Mercury	0.025	0.125	0.030	0.025	5	38	13%	0.025	0.025	0.020	0.671	0.003	0.036	0.023
Zinc	11.8	1950	180	52	39	39	100%	16.80	235.40	386.46	2.15	61.88	305.28	54.73
Dissolved Lead	0.02	18.90	3.15	1.60	19	37	51%	0.05	6.99	3.97	1.26	0.65	4.47	1.82
Dissolved Mercury	0.025	0.125	0.029	0.025	3	37	8%	0.025	0.025	0.018	0.619	0.003	0.035	0.023
Dissolved Zinc	0.60	1220.00	94.43	24.10	37	39	95%	4.85	113.92	237.53	2.52	38.03	171.42	17.43
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.018	0.006	0.005	9	39	23%	0.002	0.011	0.004	0.636	0.001	0.007	0.005
Acenaphthene	0.002	0.103	0.033	0.026	34	39	87%	0.005	0.068	0.023	0.698	0.004	0.040	0.025
Acenaphthylene	0.002	0.008	0.004	0.005	1	39	3%	0.002	0.005	0.002	0.358	0.000	0.005	0.004
Anthracene	0.002	0.014	0.006	0.005	9	39	23%	0.002	0.011	0.003	0.527	0.000	0.007	0.005
Fluorene	0.002	0.017	0.006	0.005	14	39	36%	0.003	0.012	0.004	0.613	0.001	0.008	0.005
Naphthalene	0.004	0.057	0.011	0.010	22	39	56%	0.005	0.019	0.010	0.842	0.002	0.014	0.008
Phenanthrene	0.002	0.027	0.011	0.008	23	39	59%	0.005	0.022	0.007	0.682	0.001	0.013	0.008
*Total LPAHs¹	0.013	0.181	0.072	0.066				0.030	0.123	0.037	0.522			
HPAHs														
Benzo(a)anthracene	0.001	0.021	0.006	0.005	8	39	21%	0.001	0.012	0.004	0.658	0.001	0.008	0.005
Benzo(a)pyrene	0.002	0.048	0.006	0.005	4	39	10%	0.002	0.005	0.007	1.239	0.001	0.008	0.003
Benzo(g,h,i)perylene	0.003	0.033	0.006	0.005	3	39	8%	0.004	0.006	0.005	0.824	0.001	0.008	0.004
Benzo(b,k)fluoranthenes	0.002	0.062	0.010	0.005	17	39	44%	0.005	0.015	0.010	1.061	0.002	0.013	0.006
Chrysene	0.002	0.063	0.008	0.005	12	39	31%	0.003	0.017	0.010	1.236	0.002	0.012	0.005
Dibenz(a,h)anthracene	0.003	0.013	0.005	0.005	1	39	3%	0.004	0.005	0.002	0.332	0.000	0.005	0.004
Fluoranthene	0.003	0.046	0.014	0.012	27	39	69%	0.005	0.033	0.011	0.775	0.002	0.018	0.011
Indeno(1,2,3-c,d)pyrene	0.003	0.018	0.005	0.005	3	39	8%	0.004	0.005	0.003	0.526	0.000	0.006	0.004
Pyrene	0.004	0.081	0.025	0.024	37	39	95%	0.010	0.041	0.015	0.594	0.002	0.030	0.020
*Total HPAHs²	0.029	0.368	0.086	0.074				0.045	0.126	0.056	0.654			
*Total PAHs³	0.042	0.436	0.157	0.144				0.082	0.237	0.074	0.468			
Phenols in ug/L														
4-Methylphenol	0.005	0.093	0.028	0.015	10	16	63%	0.005	0.062	0.028	0.972	0.007	0.043	0.014
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.4	3.3	0.7	0.5	9	38	24%	0.5	1.2	0.6	0.8	0.1	0.9	0.5
Butylbenzylphthalate	0.09	16.0	1.6	0.5	10	39	26%	0.1	3.3	3.4	2.1	0.5	2.7	0.5
Diethylphthalate	0.04	4.4	0.7	0.5	11	39	28%	0.1	1.4	1.0	1.3	0.2	1.1	0.4
Dimethylphthalate	0.016	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butylphthalate	0.16	1.3	0.5	0.5	10	39	26%	0.3	0.5	0.2	0.4	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
*Total Phthalates⁴	0.44	18.7												

TABLE E-7
SUMMARY STATISTICS FOR BASEFLOW AT OUTFALL 254
Water Years 2002-2011

	Minimum	Maximum	Arithmetic Mean	Median	# of detects	Count	% detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Hardness (mg/L as CaCO ₃)	386	4,410		3,020	38	38	100%							
pH (pH units)	6.7	7.6		7.2	38	38	100%							
TSS (mg/L)	1.8	140.0	17.2	9.2	38	38	100%	3.16	30.80	23.41	1.36	3.80	24.89	9.50
Metals in ug/L														
Lead	0.06	39.00	6.48	3.10	18	37	49%	0.44	16.82	8.73	1.35	1.43	9.39	3.57
Mercury	0.025	0.055	0.026	0.025	0	38	0%	0.025	0.025	0.006	0.236	0.001	0.029	0.024
Zinc	7.24	95.20	28.78	23.90	36	36	100%	11.45	52.35	19.33	0.67	3.22	35.32	22.24
Dissolved Lead	0.01	47.20	8.07	2.65	20	37	54%	0.23	19.14	10.65	1.32	1.75	11.62	4.52
Dissolved Mercury	0.025	0.114	0.028	0.025	1	37	3%	0.025	0.025	0.015	0.537	0.002	0.033	0.023
Dissolved Zinc	0.33	54.70	22.08	19.45	30	36	83%	2.10	45.90	15.82	0.72	2.64	27.43	16.73
PAH in ug/L														
LPAHs														
2-Methylnaphthalene	0.002	0.034	0.006	0.005	8	38	21%	0.003	0.012	0.006	0.942	0.001	0.008	0.004
Acenaphthene	0.002	0.096	0.014	0.005	10	38	26%	0.002	0.039	0.020	1.477	0.003	0.020	0.007
Acenaphthylene	0.002	0.019	0.005	0.005	3	38	8%	0.002	0.005	0.003	0.646	0.001	0.006	0.004
Anthracene	0.002	0.077	0.008	0.005	7	38	18%	0.002	0.016	0.013	1.564	0.002	0.013	0.004
Fluorene	0.002	0.060	0.009	0.005	9	38	24%	0.002	0.025	0.012	1.323	0.002	0.013	0.005
Naphthalene	0.002	0.029	0.008	0.005	10	38	26%	0.004	0.020	0.007	0.856	0.001	0.011	0.006
Phenanthrene	0.002	0.684	0.030	0.007	20	38	53%	0.002	0.033	0.110	3.613	0.018	0.067	-0.006
*Total LPAHs ¹	0.010	0.898	0.075	0.033				0.014	0.143	0.148	1.965			
HPAHs														
Benzo(a)anthracene	0.001	1.110	0.047	0.005	16	38	42%	0.001	0.037	0.183	3.873	0.030	0.107	-0.013
Benzo(a)pyrene	0.002	0.131	0.011	0.005	10	38	26%	0.002	0.020	0.022	1.929	0.004	0.018	0.004
Benzo(g,h,i)perylene	0.003	0.055	0.008	0.005	10	38	26%	0.004	0.014	0.009	1.116	0.002	0.011	0.005
Benzo(b,k)fluoranthenes	0.002	0.376	0.029	0.014	23	38	61%	0.002	0.043	0.063	2.169	0.010	0.050	0.008
Chrysene	0.002	0.362	0.023	0.005	16	38	42%	0.002	0.033	0.060	2.636	0.010	0.042	0.003
Dibenz(a,h)anthracene	0.003	0.017	0.005	0.005	3	38	8%	0.004	0.005	0.003	0.507	0.000	0.006	0.004
Fluoranthene	0.003	1.140	0.065	0.019	30	38	79%	0.003	0.093	0.188	2.875	0.030	0.127	0.004
Indeno(1,2,3-c,d)pyrene	0.003	0.053	0.008	0.005	8	38	21%	0.004	0.012	0.009	1.187	0.001	0.010	0.005
Pyrene	0.002	0.879	0.057	0.025	35	38	92%	0.006	0.066	0.144	2.519	0.023	0.104	0.010
*Total HPAHs ²	0.024	3.287	0.254	0.093				0.029	0.422	0.559	2.204			
*Total PAHs ³	0.034	4.185	0.329	0.131				0.043	0.547	0.697	2.118			
Phenols in ug/L														
4-Methylphenol	0.005	0.103	0.015	0.005	7	16	44%	0.005	0.017	0.024	1.582	0.006	0.028	0.002
Phthalates in ug/L														
Bis(2-ethylhexyl)phthalate	0.1	2.9	0.6	0.5	8	37	22%	0.5	0.8	0.5	0.8	0.1	0.8	0.5
Butylbenzylphthalate	0.09	1.4	0.4	0.5	4	38	11%	0.1	0.5	0.2	0.5	0.0	0.5	0.4
Diethylphthalate	0.04	3.8	0.5	0.5	9	38	24%	0.1	0.5	0.6	1.2	0.1	0.7	0.3
Dimethylphthalate	0.016	0.5	0.4	0.5	2	38	5%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butylphthalate	0.05	0.5	0.4	0.5	9	38	24%	0.2	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	38	0%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
*Total Phthalates ⁴		3.9												

**Table E-8
Summary Statistics for Stormwater at OF230 Water Years 2002-2017**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.199	0.049	0.035	15	18	83%	0.006	0.095	0.047	0.96	0.011	0.073	0.026
BOD (mg/L)	1.0	8.2	3.3	2.7	18	21	86%	1	5.1	1.8	0.55	0.4	4.1	2.4
Chloride (mg/L)	0.82	30.10	4.81	2.40	20	20	100%	1.00	9.41	7.33	1.53	1.64	8.24	1.37
Conductivity (uS/cm)	24	1720	95.3	52.6	85	85	100%	31	131	197.8	2.08	21.5	138	52.7
Hardness (mg CaCO3/L)	8.7	179	19.7	16.7	149	149	100%	11.7	25.4	16.5	0.84	1.4	22.3	17
pH (pH units)	5.0	10.6	6.9	6.9	149	149	100%	6.2	7.4	0.6	0.08	0	7.0	6.8
TSS (mg/L)	4.8	304.0	48.2	33.3	144	144	100%	13.9	102.7	45.8	0.95	3.8	55.7	40.6
Turbidity (NTU)	5.5	79.9	18.7	12.7	19	19	100%	8.4	34.7	17.9	0.96	4.1	27.3	10.1
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.062	0.426	0.143	0.122	26	26	100%	0.090	0.202	0.072	0.50	0.014	0.172	0.113
Phosphate, Ortho (mg/L)	0.012	0.047	0.022	0.019	26	26	100%	0.013	0.033	0.009	0.43	0.002	0.025	0.018
Phosphorus, Total (mg/L)	0.042	0.554	0.119	0.085	26	26	100%	0.055	0.185	0.117	0.98	0.023	0.166	0.072
Total Nitrogen (mg/L)	0.13	2.10	0.48	0.37	26	26	100%	0.24	0.76	0.39	0.82	0.08	0.64	0.32
Metals														
Cadmium (ug/L)	0.007	0.352	0.079	0.072	19	32	59%	0.029	0.141	0.063	0.79	0.011	0.102	0.057
Cadmium, Dissolved (ug/L)	0.005	0.066	0.028	0.025	16	31	52%	0.010	0.046	0.015	0.52	0.003	0.034	0.023
Copper (ug/L)	4.47	41.40	10.38	7.95	32	32	100%	5.46	13.74	8.36	0.81	1.48	13.40	7.37
Copper, Dissolved (ug/L)	0.84	18.10	3.88	2.61	31	31	100%	1.74	6.24	3.20	0.83	0.58	5.05	2.70
Lead (ug/L)	3.67	229	21.02	14.30	149	149	100%	5.75	39.26	24.07	1.15	1.97	24.91	17.12
Lead, Dissolved (ug/L)	0.171	9.050	1.024	0.642	108	148	73%	0.271	1.886	1.317	1.29	0.108	1.238	0.810
Mercury (ug/L)	0.0024	0.1300	0.0275	0.0250	66	149	44%	0.0042	0.0646	0.0260	0.95	0.0021	0.0318	0.0233
Mercury, Dissolved (ug/L)	0.0009	0.1000	0.0189	0.0250	25	148	17%	0.0009	0.0250	0.0133	0.70	0.0011	0.0210	0.0167
Zinc (ug/L)	31.8	721.0	115.5	90.5	149	149	100%	55.1	183.8	90.1	0.78	7.4	130.1	100.9
Zinc, Dissolved (ug/L)	11.5	543.0	60.5	45.9	148	148	100%	27.1	95.4	61.1	1.01	5.0	70.4	50.6
Insecticides														
2,4-D (ug/L)	0.009	0.600	0.138	0.041	13	24	54%	0.025	0.445	0.177	1.28	0.036	0.212	0.063
Carbaryl (ug/L)	0.03	0.25	0.13	0.08	0	26	0%	0.03	0.25	0.11	0.83	0.02	0.18	0.09
Chlorpyrifos (ug/L)	0.003	0.031	0.008	0.008	1	44	2%	0.003	0.010	0.007	0.85	0.001	0.011	0.006
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.002	0.330	0.024	0.013	117	149	79%	0.004	0.041	0.042	1.76	0.003	0.031	0.017
Acenaphthene (ug/L)	0.002	0.080	0.007	0.005	40	149	27%	0.002	0.013	0.011	1.45	0.001	0.009	0.006
Acenaphthylene (ug/L)	0.002	0.060	0.006	0.005	32	149	21%	0.002	0.011	0.006	1.11	0.001	0.007	0.005
Anthracene (ug/L)	0.002	0.122	0.011	0.005	62	149	42%	0.002	0.023	0.016	1.43	0.001	0.014	0.009
Fluorene (ug/L)	0.002	0.246	0.013	0.006	84	149	56%	0.003	0.025	0.023	1.75	0.002	0.017	0.010
Naphthalene (ug/L)	0.003	0.362	0.030	0.021	122	149	82%	0.009	0.055	0.039	1.27	0.003	0.037	0.024
Phenanthrene (ug/L)	0.002	0.653	0.087	0.040	145	149	97%	0.013	0.206	0.116	1.34	0.009	0.105	0.068
Total LPAHs	0.008	0.92	0.148	0.081	149	149	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.439	0.054	0.019	111	149	74%	0.003	0.148	0.078	1.44	0.006	0.067	0.042
Benzo(a)pyrene (ug/L)	0.002	0.563	0.063	0.023	100	149	67%	0.003	0.163	0.094	1.48	0.008	0.078	0.048
Benzo(b,k)fluoranthenes (ug/L)	0.002	1.396	0.176	0.053	120	149	81%	0.006	0.483	0.252	1.43	0.021	0.217	0.135
Benzo(g,h,i)perylene (ug/L)	0.002	0.457	0.071	0.027	128	149	86%	0.004	0.177	0.090	1.27	0.007	0.086	0.056
Chrysene (ug/L)	0.002	0.860	0.118	0.033	131	149	88%	0.004	0.310	0.170	1.44	0.014	0.146	0.091
Dibenz(a,h)anthracene (ug/L)	0.002	0.088	0.016	0.009	85	149	57%	0.002	0.038	0.018	1.16	0.001	0.019	0.013
Fluoranthene (ug/L)	0.003	1.687	0.183	0.060	146	149	98%	0.012	0.473	0.273	1.49	0.022	0.227	0.139
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.346	0.055	0.021	115	149	77%	0.003	0.146	0.070	1.29	0.006	0.066	0.043
Pyrene (ug/L)	0.005	1.200	0.168	0.060	143	149	96%	0.013	0.495	0.228	1.35	0.019	0.205	0.131
Total HPAHs	0.025	6.68	0.900	0.305	149	149	100%							
Total PAHs	0.037	7.49	1.05	0.376	149	149	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.14	44.10	3.62	2.20	129	148	87%	0.70	7.46	4.73	1.31	0.39	4.39	2.85
Butyl benzyl phthalate (ug/L)	0.085	8.400	0.544	0.433	41	149	28%	0.144	0.642	0.960	1.77	0.079	0.699	0.388
Diethylphthalate (ug/L)	0.077	9.300	0.655	0.439	50	149	34%	0.168	1.420	1.203	1.84	0.099	0.850	0.460
Dimethyl phthalate (ug/L)	0.016	4.700	0.351	0.202	16	149	11%	0.039	0.500	0.537	1.53	0.044	0.438	0.264
Di-n-butylphthalate (ug/L)	0.050	1.600	0.410	0.500	56	149	38%	0.152	0.512	0.193	0.47	0.016	0.441	0.379
Di-n-Octyl phthalate (ug/L)	0.042	3.200	0.532	0.500	68	147	46%	0.106	1.200	0.509	0.96	0.042	0.615	0.449
Total Phthalates	0.000	44.1	4.80	3.086	141	149	95%							
Herbicides														
Dichlobenil (ug/L)	0.010	0.190	0.051	0.039	35	44	80%	0.012	0.093	0.043	0.85	0.007	0.064	0.038
TPH														
NWTPH-Diesel (mg/L)	0.02	0.13	0.05	0.05	2	26	8%	0.02	0.05	0.03	0.58	0.01	0.06	0.04
NWTPH-Gasoline (mg/L)	2.3	25.0	18.5	25.0	0	28	0%	2.3	25.0	10.4	0.56	2.0	22.6	14.5
NWTPH-Heavy Oil (mg/L)	0.03	1.40	0.65	0.57	25	26	96%	0.34	1.05	0.31	0.48	0.06	0.78	0.52
Bacteria														
Coliform, Fecal (CFU/100 ml)	80	16,000	5,991	4,250	28	28	100%	500	16,000	5,448	0.91	1,030	8,103	3,879
BTEX														
Benzene (ug/L)	0.1	1.2	0.1	0.1	1	28	4%	0.1	0.1	0.2	1.49	0.0	0.2	0.1
Ethylbenzene (ug/L)	0.1	0.4	0.1	0.1	1	28	4%	0.1	0.1	0.1	0.51	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.7	0.2	0.2	2	28	7%	0.2	0.2	0.1	0.51	0.0	0.3	0.2
o-Xylene (ug/L)	0.1	0.4	0.1	0.1	2	28	7%	0.1	0.1	0.1	0.57	0.0	0.1	0.1
Toluene (ug/L)	0.1	1.2	0.2	0.1	6	28	21%	0.1	0.3	0.2	1.25	0.0	0.3	0.1

Table E-8 (Cont'd)
Summary Statistics for Stormwater at OF230 WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.037	0.199	0.080	0.051	7	7	100%	0.039	0.157	0.061	0.76	0.023	0.137	0.024
BOD (mg/L)	2.3	8.2	3.6	2.9	8	8	100%	2.5	5.2	1.9	0.54	0.7	5.2	2.0
Chloride (mg/L)	1.65	30.10	7.09	2.65	7	7	100%	1.90	16.96	10.39	1.46	3.93	16.70	-2.52
Conductivity (uS/cm)	28	617	107	45.6	13	13	100%	33.4	179.2	160.1	1.50	44.4	203.8	10.3
Hardness (mg CaCO3/L)	11.3	38.8	18.3	15.5	13	13	100%	12.0	27.0	8.0	0.43	2.2	23.1	13.5
pH (pH units)	6.3	7.8	7.1	7.1	13	13	100%	6.8	7.5	0.4	0.05	0.1	7.3	6.9
TSS (mg/L)	12.2	183.0	47.5	36.4	13	13	100%	14.6	94.4	47.7	1.00	13.2	76.3	18.7
Turbidity (NTU)	9.1	79.9	26.3	11	7	7	100%	9.8	60.7	27.4	1.04	10.3	51.6	1.0
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.096	0.426	0.175	0.156	11	11	100%	0.099	0.239	0.094	0.54	0.028	0.239	0.112
Phosphate, Ortho (mg/L)	0.012	0.047	0.024	0.022	11	11	100%	0.016	0.029	0.009	0.39	0.003	0.030	0.017
Phosphorus, Total (mg/L)	0.048	0.554	0.170	0.102	11	11	100%	0.055	0.418	0.168	0.99	0.051	0.283	0.057
Total Nitrogen (mg/L)	0.28	2.10	0.67	0.48	11	11	100%	0.29	1.07	0.54	0.80	0.16	1.03	0.31
Metals														
Cadmium (ug/L)	0.021	0.352	0.090	0.054	6	13	46%	0.029	0.171	0.091	1.01	0.025	0.145	0.035
Cadmium, Dissolved (ug/L)	0.010	0.066	0.027	0.025	4	13	31%	0.013	0.052	0.017	0.62	0.005	0.037	0.017
Copper (ug/L)	4.51	41.40	13.59	8.46	13	13	100%	5.73	34.46	12.26	0.90	3.40	20.99	6.18
Copper, Dissolved (ug/L)	2.07	18.10	5.05	3.92	13	13	100%	2.25	6.76	4.23	0.84	1.17	7.61	2.49
Lead (ug/L)	4.32	64.90	13.68	7.39	13	13	100%	4.56	23.54	16.49	1.21	4.57	23.64	3.72
Lead, Dissolved (ug/L)	0.244	1.300	0.472	0.396	13	13	100%	0.262	0.712	0.289	0.61	0.080	0.647	0.297
Mercury (ug/L)	0.0024	0.0101	0.0053	0.0055	13	13	100%	0.0029	0.0085	0.0023	0.44	0.0006	0.0067	0.0039
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0023	0.0009	2	13	15%	0.0009	0.0045	0.0017	0.74	0.0005	0.0033	0.0013
Zinc (ug/L)	37.2	231.0	92.2	70.8	13	13	100%	49.1	182.0	59.2	0.64	16.4	128.0	56.4
Zinc, Dissolved (ug/L)	23.6	97.0	45.4	41.1	13	13	100%	28.3	71.8	20.4	0.45	5.7	57.7	33.1
Insecticides														
2,4-D (ug/L)	0.009	0.600	0.193	0.085	9	10	90%	0.022	0.483	0.224	1.16	0.071	0.354	0.033
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	11	0%	0.25	0.25	0.00	0.00	0.00	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.031	0.012	0.009	0	13	0%	0.003	0.030	0.011	0.95	0.003	0.018	0.005
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.002	0.040	0.013	0.009	9	13	69%	0.003	0.025	0.011	0.86	0.003	0.019	0.006
Acenaphthene (ug/L)	0.002	0.012	0.004	0.003	4	13	31%	0.002	0.007	0.003	0.68	0.001	0.006	0.002
Acenaphthylene (ug/L)	0.002	0.011	0.005	0.004	6	13	46%	0.002	0.008	0.003	0.60	0.001	0.006	0.003
Anthracene (ug/L)	0.003	0.015	0.006	0.006	7	13	54%	0.003	0.008	0.004	0.63	0.001	0.008	0.003
Fluorene (ug/L)	0.003	0.014	0.007	0.006	8	13	62%	0.003	0.012	0.004	0.57	0.001	0.009	0.004
Naphthalene (ug/L)	0.006	0.072	0.022	0.019	9	13	69%	0.009	0.028	0.016	0.76	0.005	0.031	0.012
Phenanthrene (ug/L)	0.023	0.099	0.046	0.040	13	13	100%	0.025	0.063	0.021	0.45	0.006	0.058	0.033
Total LPAHs¹	0.052	0.17	0.089	0.080	13	13	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.009	0.079	0.027	0.020	13	13	100%	0.012	0.042	0.018	0.68	0.005	0.038	0.016
Benzo(a)pyrene (ug/L)	0.013	0.107	0.036	0.029	13	13	100%	0.016	0.058	0.025	0.68	0.007	0.051	0.021
Benzo(b,k)fluoranthenes (ug/L)	0.035	0.256	0.091	0.078	13	13	100%	0.039	0.179	0.064	0.70	0.018	0.130	0.053
Benzo(g,h,i)perylene (ug/L)	0.013	0.082	0.037	0.034	13	13	100%	0.016	0.054	0.020	0.54	0.006	0.050	0.025
Chrysene (ug/L)	0.024	0.149	0.055	0.051	13	13	100%	0.025	0.095	0.035	0.64	0.010	0.076	0.034
Dibenz(a,h)anthracene (ug/L)	0.002	0.022	0.008	0.008	10	13	77%	0.002	0.012	0.006	0.68	0.002	0.012	0.005
Fluoranthene (ug/L)	0.030	0.207	0.074	0.062	13	13	100%	0.036	0.113	0.046	0.62	0.013	0.102	0.046
Indeno(1,2,3-cd)pyrene (ug/L)	0.009	0.092	0.033	0.034	13	13	100%	0.011	0.047	0.022	0.68	0.006	0.046	0.019
Pyrene (ug/L)	0.039	0.198	0.078	0.061	13	13	100%	0.043	0.104	0.042	0.54	0.012	0.103	0.053
Total HPAHs²	0.176	1.19	0.440	0.368	13	13	100%							
Total PAHs³	0.238	1.34	0.53	0.436	13	13	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	1.67	3.20	2.35	2.26	13	13	100%	1.88	2.87	0.47	0.20	0.13	2.63	2.07
Butyl benzyl phthalate (ug/L)	0.206	0.433	0.291	0.302	6	13	46%	0.215	0.357	0.067	0.23	0.018	0.331	0.251
Diethylphthalate (ug/L)	0.079	0.546	0.278	0.260	5	13	38%	0.140	0.431	0.127	0.46	0.035	0.355	0.201
Dimethyl phthalate (ug/L)	0.039	0.272	0.136	0.135	0	13	0%	0.039	0.228	0.090	0.66	0.025	0.191	0.082
Di-n-butylphthalate (ug/L)	0.145	0.376	0.256	0.254	5	13	38%	0.145	0.349	0.077	0.30	0.021	0.303	0.210
Di-n-Octyl phthalate (ug/L)	0.205	1.520	0.600	0.501	12	13	92%	0.374	0.986	0.341	0.57	0.094	0.806	0.394
Total Phthalates⁴	1.670	4.4	3.34	3.688	13	13	100%							
Herbicides														
Dichlobenil (ug/L)	0.010	0.162	0.044	0.023	10	13	77%	0.013	0.086	0.043	0.99	0.012	0.070	0.017
TPH														
NWTPH-Diesel (mg/L)	0.05	0.13	0.07	0.05	2	9	22%	0.05	0.11	0.03	0.48	0.01	0.09	0.04
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	10	0%	25.0	25.0	0.0	0.00	0.0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.50	1.40	0.79	0.67	9	9	100%	0.52	1.32	0.34	0.43	0.11	1.04	0.53
Bacteria														
Coliform, Fecal (CFU/100 ml)	790	16,000	7,559	4,450	10	10	100%	2,239	16,000	6,228	0.82	1,970	12,015	3,103
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	10	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.5	0.2	0.1	2	10	20%	0.1	0.3	0.1	0.84	0.0	0.3	0.1

**Table E-9
Summary Statistics for Stormwater at OF235 Water Years 2002-2017**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.665	0.073	0.051	48	54	89%	0.011	0.109	0.096	1.31	0.013	0.100	0.047
BOD (mg/L)	1.0	7.8	3.5	3.5	30	38	79%	1	5.5	1.9	0.54	0.3	4.1	2.8
Chloride (mg/L)	0.82	46.10	6.81	3.64	46	46	100%	2.28	9.84	9.35	1.37	1.38	9.59	4.04
Conductivity (uS/cm)	7.2	1590	124.9	80.8	105	105	100%	50.4	171.8	179.3	1.44	17.5	159.6	90.2
Hardness (mg CaCO3/L)	9.8	63.9	31.4	29.4	172	172	100%	20.7	43.4	9.9	0.32	0.8	32.9	29.9
pH (pH units)	5.4	8.6	7.0	7.0	172	172	100%	6.4	7.5	0.5	0.07	0	7.0	6.9
TSS (mg/L)	5.6	441	65.6	49.1	167	167	100%	16.8	135	59.3	0.91	4.6	74.6	56.5
Turbidity (NTU)	5.1	79.5	21.5	17.5	23	23	100%	8.6	38.4	15.8	0.73	3.3	28.4	14.7
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.028	1.190	0.347	0.256	56	56	100%	0.158	0.746	0.257	0.74	0.034	0.416	0.278
Phosphate, Ortho (mg/L)	0.004	0.097	0.024	0.020	57	57	100%	0.011	0.041	0.016	0.66	0.002	0.028	0.020
Phosphorus, Total (mg/L)	0.019	0.532	0.121	0.096	54	54	100%	0.049	0.224	0.097	0.80	0.013	0.147	0.095
Total Nitrogen (mg/L)	0.02	3.28	0.84	0.72	54	56	96%	0.35	1.38	0.63	0.75	0.08	1.01	0.67
Metals														
Cadmium (ug/L)	0.007	0.960	0.175	0.123	73	87	84%	0.038	0.392	0.169	0.96	0.018	0.211	0.139
Cadmium, Dissolved (ug/L)	0.005	0.379	0.064	0.053	61	87	70%	0.013	0.133	0.057	0.89	0.006	0.076	0.052
Copper (ug/L)	3.45	162.00	32.06	25.70	87	87	100%	16.36	51.76	24.69	0.77	2.65	37.32	26.80
Copper, Dissolved (ug/L)	1.79	79.10	13.09	9.87	86	87	99%	6.19	20.42	11.17	0.85	1.20	15.47	10.71
Lead (ug/L)	3.24	368.00	62.35	51.40	172	172	100%	25.52	111.50	44.95	0.72	3.43	69.11	55.58
Lead, Dissolved (ug/L)	0.156	28	6.594	4.650	168	172	98%	2.012	14.890	5.525	0.84	0.421	7.426	5.763
Mercury (ug/L)	0.0017	0.1900	0.0309	0.0250	77	172	45%	0.0048	0.0620	0.0334	1.08	0.0026	0.0360	0.0259
Mercury, Dissolved (ug/L)	0.0009	0.1000	0.0191	0.0250	24	172	14%	0.0009	0.0250	0.0122	0.64	0.0009	0.0209	0.0173
Zinc (ug/L)	34.3	598	123.2	98.4	172	172	100%	48.8	215.6	84.6	0.69	6.5	136	110.5
Zinc, Dissolved (ug/L)	13.0	347	46.6	36.6	171	171	100%	22.5	72.4	36.7	0.79	2.8	52.1	41.0
Insecticides														
2,4-D (ug/L)	0.023	12.000	0.656	0.190	30	58	52%	0.035	1.109	1.719	2.62	0.226	1.108	0.204
Carbaryl (ug/L)	0.03	0.25	0.12	0.03	0	33	0%	0.03	0.25	0.11	0.88	0.02	0.16	0.09
Chlorpyrifos (ug/L)	0.003	0.707	0.017	0.008	2	78	3%	0.003	0.009	0.079	4.74	0.009	0.035	-0.001
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.001	4.130	0.042	0.010	117	172	68%	0.003	0.038	0.315	7.56	0.024	0.089	-0.006
Acenaphthene (ug/L)	0.002	0.086	0.010	0.005	75	172	44%	0.002	0.021	0.012	1.20	0.001	0.012	0.008
Acenaphthylene (ug/L)	0.001	0.060	0.007	0.005	48	172	28%	0.002	0.013	0.007	1.12	0.001	0.008	0.005
Anthracene (ug/L)	0.002	0.138	0.015	0.007	93	172	54%	0.003	0.033	0.019	1.27	0.001	0.018	0.012
Fluorene (ug/L)	0.001	0.083	0.013	0.006	101	172	59%	0.003	0.033	0.015	1.14	0.001	0.015	0.011
Naphthalene (ug/L)	0.002	4.430	0.051	0.015	122	171	71%	0.004	0.059	0.338	6.65	0.026	0.102	0.000
Phenanthrene (ug/L)	0.002	0.776	0.085	0.034	158	172	92%	0.009	0.227	0.117	1.36	0.009	0.103	0.068
Total LPAHs	0.009	4.93	0.175	0.075	172	172	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.555	0.051	0.020	141	172	82%	0.003	0.132	0.074	1.45	0.006	0.062	0.040
Benzo(a)pyrene (ug/L)	0.001	0.498	0.053	0.020	127	172	74%	0.004	0.140	0.076	1.43	0.006	0.064	0.041
Benzo(b,k)fluoranthenes (ug/L)	0.002	1.199	0.131	0.054	146	172	85%	0.006	0.366	0.179	1.36	0.014	0.158	0.104
Benzo(g,h,i)perylene (ug/L)	0.002	0.410	0.059	0.027	150	172	87%	0.004	0.159	0.072	1.21	0.005	0.070	0.048
Chrysene (ug/L)	0.002	0.678	0.101	0.038	161	172	94%	0.008	0.286	0.131	1.29	0.010	0.121	0.082
Dibenz(a,h)anthracene (ug/L)	0.002	0.154	0.012	0.005	83	172	48%	0.002	0.031	0.017	1.38	0.001	0.015	0.010
Fluoranthene (ug/L)	0.002	1.550	0.171	0.064	169	172	98%	0.022	0.457	0.221	1.29	0.017	0.204	0.138
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.338	0.040	0.018	135	172	78%	0.003	0.104	0.052	1.30	0.004	0.048	0.032
Pyrene (ug/L)	0.002	1.164	0.170	0.071	170	172	99%	0.023	0.461	0.206	1.21	0.016	0.201	0.139
Total HPAHs	0.027	6.50	0.786	0.314	172	172	100%							
Total PAHs	0.045	7.55	0.96	0.368	172	172	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.32	97	4.84	2.40	160	171	94%	0.79	11.50	8.45	1.74	0.65	6.12	3.57
Butyl benzyl phthalate (ug/L)	0.085	7.930	0.961	0.500	86	172	50%	0.165	2.380	1.346	1.40	0.103	1.163	0.758
Diethylphthalate (ug/L)	0.077	590	3.927	0.263	52	172	30%	0.142	1.009	44.957	11.45	3.428	10.694	-2.839
Dimethyl phthalate (ug/L)	0.016	2.400	0.289	0.202	17	170	10%	0.039	0.500	0.287	0.99	0.022	0.333	0.246
Di-n-butylphthalate (ug/L)	0.050	1.600	0.377	0.428	61	172	35%	0.148	0.500	0.196	0.52	0.015	0.406	0.347
Di-n-Octyl phthalate (ug/L)	0.042	3.200	0.500	0.500	58	171	34%	0.042	1.180	0.567	1.13	0.043	0.585	0.414
Total Phthalates	0.000	596.4	9.69	3.581	167	172	97%							
Herbicides														
Dichlobenil (ug/L)	0.004	3.390	0.133	0.039	54	76	71%	0.010	0.189	0.408	3.07	0.047	0.226	0.040
TPH														
NWTPH-Diesel (mg/L)	0.02	0.12	0.05	0.05	2	48	4%	0.02	0.08	0.02	0.53	0.00	0.05	0.04
NWTPH-Gasoline (mg/L)	2.3	50.0	18.6	25.0	13	49	27%	2.3	25.5	11.7	0.63	1.7	22.0	15.2
NWTPH-Heavy Oil (mg/L)	0.03	1.40	0.61	0.54	43	48	90%	0.19	1.20	0.39	0.63	0.06	0.72	0.50
Bacteria														
Coliform, Fecal (CFU/100 ml)	80	35,000	6,851	3,250	48	48	100%	440	16,000	7,725	1.13	1,115	9,094	4,608
BTEX														
Benzene (ug/L)	0.1	1.2	0.3	0.2	14	28	50%	0.1	0.8	0.3	0.99	0.1	0.5	0.2
Ethylbenzene (ug/L)	0.1	0.4	0.1	0.1	6	28	21%	0.1	0.3	0.1	0.67	0.0	0.2	0.1
m,p-Xylene (ug/L)	0.2	0.6	0.2	0.2	4	28	14%	0.2	0.4	0.1	0.47	0.0	0.3	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	28	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	1.2	0.2	0.1	11	28	39%	0.1	0.3	0.2	1.15	0.0	0.3	0.1

Table E-9 (Cont'd)
Summary Statistics for Stormwater at OF235 WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.084	0.041	0.034	7	8	88%	0.021	0.070	0.024	0.60	0.009	0.061	0.020
BOD (mg/L)	1.0	4.4	2.5	2.2	7	10	70%	1.0	4.1	1.3	0.53	0.4	3.4	1.5
Chloride (mg/L)	2.26	46.10	14.18	3.87	8	8	100%	2.41	45.33	19.42	1.37	6.87	30.42	-2.05
Conductivity (uS/cm)	42	1590	267.3	114	12	12	100%	65	386	432.8	1.62	124.9	542.3	-7.7
Hardness (mg CaCO3/L)	18	60.5	31	27.4	12	12	100%	18.4	53.1	13.8	0.44	4	39.7	22.2
pH (pH units)	6.3	7.6	7	7	12	12	100%	6.5	7.5	0.4	0.06	0.1	7.2	6.7
TSS (mg/L)	5.6	126	35.3	25.1	12	12	100%	15.3	64.4	32.8	0.93	9.5	56.1	14.5
Turbidity (NTU)	5.1	21.9	14.5	16.2	8	8	100%	7	21	5.9	0.41	2.1	19.4	9.5
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.162	0.661	0.285	0.255	11	11	100%	0.189	0.346	0.137	0.48	0.041	0.377	0.193
Phosphate, Ortho (mg/L)	0.019	0.047	0.028	0.023	11	11	100%	0.020	0.046	0.010	0.36	0.003	0.034	0.021
Phosphorus, Total (mg/L)	0.052	0.329	0.108	0.073	11	11	100%	0.055	0.164	0.081	0.75	0.024	0.163	0.054
Total Nitrogen (mg/L)	0.36	2.77	0.74	0.52	11	11	100%	0.37	0.75	0.69	0.93	0.21	1.20	0.28
Metals														
Cadmium (ug/L)	0.014	0.224	0.078	0.062	6	12	50%	0.021	0.130	0.061	0.78	0.018	0.117	0.039
Cadmium, Dissolved (ug/L)	0.005	0.090	0.030	0.025	3	12	25%	0.011	0.054	0.023	0.76	0.007	0.045	0.016
Copper (ug/L)	12.70	81.50	25.80	19.60	12	12	100%	16.06	30.54	18.37	0.71	5.30	37.47	14.13
Copper, Dissolved (ug/L)	5.86	27.40	11.15	9.51	12	12	100%	6.40	15.29	6.03	0.54	1.74	14.99	7.32
Lead (ug/L)	19.80	72.30	30.98	28.80	12	12	100%	20.72	39.22	14.34	0.46	4.14	40.09	21.86
Lead, Dissolved (ug/L)	1.960	8.830	3.838	2.805	12	12	100%	2.022	6.920	2.226	0.58	0.643	5.253	2.424
Mercury (ug/L)	0.0031	0.0117	0.0061	0.0058	12	12	100%	0.0033	0.0085	0.0027	0.44	0.0008	0.0078	0.0044
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0024	0.0015	2	12	17%	0.0009	0.0045	0.0017	0.72	0.0005	0.0034	0.0013
Zinc (ug/L)	36.7	247	81.9	62.4	12	12	100%	41.2	115.8	57.5	0.70	16.6	118.5	45.4
Zinc, Dissolved (ug/L)	20.6	75.8	36.2	31.7	12	12	100%	23.9	62.6	16.9	0.47	4.9	46.9	25.4
Insecticides														
2,4-D (ug/L)	0.026	12.000	1.293	0.050	11	11	100%	0.031	1.700	3.585	2.77	1.081	3.702	-1.115
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	11	0%	0.25	0.25	0.00	0.00	0.00	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.031	0.010	0.008	0	12	0%	0.003	0.028	0.010	1.01	0.003	0.016	0.004
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.002	0.227	0.025	0.005	6	12	50%	0.003	0.016	0.064	2.54	0.018	0.066	-0.015
Acenaphthene (ug/L)	0.002	0.019	0.006	0.003	5	12	42%	0.002	0.015	0.006	0.96	0.002	0.010	0.002
Acenaphthylene (ug/L)	0.002	0.013	0.007	0.008	8	12	67%	0.002	0.011	0.004	0.57	0.001	0.009	0.004
Anthracene (ug/L)	0.003	0.021	0.012	0.012	10	12	83%	0.003	0.019	0.006	0.54	0.002	0.016	0.008
Fluorene (ug/L)	0.002	0.035	0.009	0.005	6	12	50%	0.002	0.017	0.010	1.13	0.003	0.015	0.002
Naphthalene (ug/L)	0.004	0.094	0.020	0.012	5	12	42%	0.004	0.043	0.026	1.29	0.008	0.037	0.004
Phenanthrene (ug/L)	0.008	0.166	0.042	0.026	12	12	100%	0.010	0.064	0.044	1.06	0.013	0.069	0.014
Total LPAHs¹	0.020	0.34	0.095	0.066	12	12	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.007	0.060	0.025	0.018	12	12	100%	0.013	0.045	0.016	0.63	0.005	0.035	0.015
Benzo(a)pyrene (ug/L)	0.004	0.064	0.029	0.024	11	12	92%	0.015	0.047	0.017	0.58	0.005	0.040	0.019
Benzo(b,k)fluoranthenes (ug/L)	0.014	0.154	0.070	0.067	12	12	100%	0.035	0.101	0.038	0.54	0.011	0.094	0.046
Benzo(g,h,i)perylene (ug/L)	0.009	0.064	0.030	0.023	12	12	100%	0.013	0.056	0.019	0.61	0.005	0.042	0.019
Chrysene (ug/L)	0.009	0.103	0.046	0.035	12	12	100%	0.022	0.075	0.027	0.59	0.008	0.063	0.029
Dibenz(a,h)anthracene (ug/L)	0.002	0.015	0.006	0.006	8	12	67%	0.002	0.012	0.005	0.72	0.001	0.009	0.003
Fluoranthene (ug/L)	0.017	0.183	0.072	0.068	12	12	100%	0.029	0.118	0.048	0.66	0.014	0.103	0.042
Indeno(1,2,3-cd)pyrene (ug/L)	0.007	0.058	0.023	0.019	12	12	100%	0.009	0.040	0.016	0.69	0.005	0.033	0.013
Pyrene (ug/L)	0.026	0.231	0.089	0.074	12	12	100%	0.035	0.137	0.056	0.63	0.016	0.124	0.054
Total HPAHs²	0.095	0.89	0.392	0.326	12	12	100%							
Total PAHs³	0.114	1.22	0.49	0.410	12	12	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.78	19.30	3.46	1.94	12	12	100%	1.25	3.01	5.03	1.45	1.45	6.66	0.26
Butyl benzyl phthalate (ug/L)	0.217	7.930	0.997	0.338	7	12	58%	0.228	0.695	2.188	2.19	0.632	2.387	-0.393
Diethylphthalate (ug/L)	0.078	0.582	0.209	0.207	2	12	17%	0.079	0.263	0.143	0.68	0.041	0.299	0.118
Dimethyl phthalate (ug/L)	0.039	0.230	0.134	0.138	0	12	0%	0.039	0.230	0.089	0.67	0.026	0.190	0.077
Di-n-butylphthalate (ug/L)	0.147	0.347	0.246	0.253	6	12	50%	0.195	0.266	0.047	0.19	0.014	0.276	0.216
Di-n-Octyl phthalate (ug/L)	0.170	1.190	0.439	0.357	9	12	75%	0.172	0.855	0.308	0.70	0.089	0.634	0.243
*Total Phthalates⁴	0.783	27.7	4.93	2.895	12	12	100%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.082	0.034	0.021	6	12	50%	0.009	0.077	0.030	0.87	0.009	0.053	0.015
TPH														
NWTPH-Diesel (mg/L)	0.05	0.11	0.06	0.05	1	10	10%	0.05	0.06	0.02	0.34	0.01	0.07	0.04
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	10	0%	25.0	25.0	0	0.00	0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.32	1.10	0.68	0.58	10	10	100%	0.38	1.10	0.29	0.42	0.09	0.88	0.48
Bacteria														
Coliform, Fecal (CFU/100 ml)	1,300	16,000	6,070	3,500	10	10	100%	1,660	16,000	5,726	0.94	1,811	10,166	1,974
BTEX														
Benzene (ug/L)	0.1	0.7	0.2	0.1	4	10	40%	0.1	0.4	0.2	0.87	0.1	0.4	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.6	0.2	0.2	1	10	10%	0.2	0.2	0.1	0.53	0.0	0.3	0.1
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.7	0.2	0.1	3	10	30%	0.1	0.4	0.2	0.96	0.1	0.4	0.1

Table E-10
Summary Statistics for Stormwater at OF237A Water Years 2002-2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.096	0.040	0.033	17	20	85%	0.008	0.070	0.026	0.64	0.006	0.052	0.028
BOD (mg/L)	1	6.8	2.5	2.5	14	19	74%	1	3.9	1.5	0.58	0.3	3.2	1.8
Chloride (mg/L)	1.79	39.60	8.87	4.91	21	21	100%	3.04	27	10.58	1.19	2.31	13.69	4.06
Conductivity (uS/cm)	7.5	1190	114.6	83.6	89	89	100%	49.9	172	136.1	1.19	14.4	143.3	85.9
Hardness (mg CaCO3/L)	14.5	68.8	30.3	28.7	152	152	100%	20.2	41.1	9.6	0.32	0.8	31.9	28.8
pH (pH units)	5.3	7.9	6.8	6.8	152	152	100%	6.2	7.3	0.4	0.06	0	6.8	6.7
TSS (mg/L)	3.5	668	52.5	35.8	152	152	100%	17.3	89.4	68.7	1.31	5.6	63.5	41.4
Turbidity (NTU)	8.9	23	16.1	14.6	21	21	100%	12.2	21.8	3.9	0.24	0.8	17.9	14.3
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.191	0.839	0.436	0.423	27	27	100%	0.232	0.658	0.174	0.40	0.033	0.505	0.367
Phosphate, Ortho (mg/L)	0.011	0.050	0.025	0.022	27	27	100%	0.016	0.043	0.011	0.44	0.002	0.029	0.021
Phosphorus, Total (mg/L)	0.049	1.150	0.133	0.086	27	27	100%	0.059	0.157	0.207	1.56	0.040	0.215	0.051
Total Nitrogen (mg/L)	0.36	2.03	0.69	0.59	27	27	100%	0.42	0.94	0.34	0.49	0.07	0.83	0.56
Metals														
Cadmium (ug/L)	0.007	0.615	0.087	0.061	16	33	48%	0.009	0.133	0.115	1.32	0.020	0.128	0.046
Cadmium, Dissolved (ug/L)	0.005	0.073	0.023	0.025	11	33	33%	0.005	0.041	0.015	0.66	0.003	0.028	0.018
Copper (ug/L)	4.91	69.10	11.45	7.92	33	33	100%	5.95	15.66	12.04	1.05	2.10	15.72	7.18
Copper, Dissolved (ug/L)	1.51	12.10	3.76	2.76	33	33	100%	1.92	6.32	2.47	0.66	0.43	4.64	2.89
Lead (ug/L)	1.65	80.60	13.01	9.24	151	152	99%	4.60	25.39	11.62	0.89	0.94	14.87	11.15
Lead, Dissolved (ug/L)	0.081	3.460	0.618	0.477	96	152	63%	0.180	1.250	0.548	0.89	0.044	0.706	0.530
Mercury (ug/L)	0.0021	0.1000	0.0213	0.0250	55	152	36%	0.0045	0.0250	0.0146	0.68	0.0012	0.0236	0.0190
Mercury, Dissolved (ug/L)	0.0009	0.1000	0.0187	0.0250	23	152	15%	0.0009	0.0250	0.0133	0.71	0.0011	0.0209	0.0166
Zinc (ug/L)	35.0	361	100.9	80.9	152	152	100%	48.7	164.7	61.2	0.61	5.0	110.8	91.1
Zinc, Dissolved (ug/L)	19.8	289	52.6	41.8	152	152	100%	26.4	84.3	39.5	0.75	3.2	59	46.3
Insecticides														
2,4-D (ug/L)	0.029	2.500	0.373	0.130	22	27	81%	0.034	1.080	0.567	1.52	0.109	0.598	0.149
Carbaryl (ug/L)	0.03	0.25	0.14	0.13	0	31	0%	0.03	0.25	0.11	0.75	0.02	0.18	0.10
Chlorpyrifos (ug/L)	0.003	0.365	0.016	0.007	2	44	5%	0.003	0.010	0.054	3.32	0.008	0.033	0.000
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.001	0.104	0.014	0.010	96	151	64%	0.003	0.031	0.016	1.11	0.001	0.017	0.012
Acenaphthene (ug/L)	0.002	0.532	0.011	0.005	35	151	23%	0.002	0.013	0.045	4.21	0.004	0.018	0.003
Acenaphthylene (ug/L)	0.001	0.061	0.005	0.004	24	151	16%	0.002	0.010	0.006	1.12	0.000	0.006	0.004
Anthracene (ug/L)	0.002	0.207	0.012	0.005	64	151	42%	0.002	0.023	0.022	1.76	0.002	0.016	0.009
Fluorene (ug/L)	0.001	0.110	0.011	0.005	75	151	50%	0.003	0.025	0.013	1.19	0.001	0.013	0.009
Naphthalene (ug/L)	0.002	0.150	0.023	0.017	106	151	70%	0.004	0.048	0.022	0.97	0.002	0.027	0.019
Phenanthrene (ug/L)	0.002	0.893	0.089	0.033	140	151	93%	0.008	0.224	0.142	1.58	0.012	0.112	0.067
Total LPAHs	0.003	1.09	0.144	0.068	151	151	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.902	0.070	0.021	122	151	81%	0.003	0.168	0.131	1.87	0.011	0.091	0.049
Benzo(a)pyrene (ug/L)	0.001	0.865	0.075	0.024	110	151	73%	0.004	0.181	0.127	1.70	0.010	0.095	0.054
Benzo(b,k)fluoranthenes (ug/L)	0.005	2.430	0.227	0.074	134	151	89%	0.008	0.609	0.371	1.63	0.030	0.287	0.168
Benzo(g,h,i)perylene (ug/L)	0.002	0.794	0.083	0.032	136	151	90%	0.005	0.206	0.117	1.42	0.010	0.101	0.064
Chrysene (ug/L)	0.002	1.490	0.147	0.048	141	151	93%	0.008	0.405	0.221	1.50	0.018	0.182	0.111
Dibenz(a,h)anthracene (ug/L)	0.002	0.177	0.019	0.006	82	151	54%	0.002	0.042	0.028	1.49	0.002	0.023	0.014
Fluoranthene (ug/L)	0.003	2.640	0.243	0.080	150	151	99%	0.017	0.590	0.405	1.67	0.033	0.308	0.178
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.680	0.070	0.025	126	151	83%	0.004	0.174	0.109	1.56	0.009	0.087	0.052
Pyrene (ug/L)	0.005	2.930	0.223	0.076	149	151	99%	0.018	0.530	0.366	1.64	0.030	0.282	0.164
Total HPAHs	0.029	12.26	1.153	0.366	151	151	100%							
Total PAHs	0.033	13.30	1.30	0.486	151	151	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.20	13.70	2.16	1.49	114	150	76%	0.50	4.91	2.01	0.93	0.16	2.49	1.84
Butyl benzyl phthalate (ug/L)	0.085	2.920	0.419	0.390	35	151	23%	0.144	0.511	0.350	0.84	0.028	0.476	0.363
Diethylphthalate (ug/L)	0.079	230	2.415	0.271	54	151	36%	0.114	1.400	18.856	7.81	1.535	5.447	-0.617
Dimethyl phthalate (ug/L)	0.016	0.500	0.270	0.202	11	150	7%	0.038	0.500	0.197	0.73	0.016	0.302	0.238
Di-n-butylphthalate (ug/L)	0.095	4.800	0.420	0.500	55	151	36%	0.152	0.513	0.397	0.95	0.032	0.484	0.356
Di-n-Octyl phthalate (ug/L)	0.042	2.500	0.378	0.426	43	149	29%	0.077	0.503	0.315	0.83	0.026	0.429	0.327
Total Phthalates	0.000	230.0	4.66	2.010	128	151	85%							
Herbicides														
Dichlobenil (ug/L)	0.010	1.080	0.075	0.045	34	44	77%	0.010	0.120	0.159	2.14	0.024	0.123	0.026
TPH														
NWTPH-Diesel (mg/L)	0.02	0.32	0.06	0.05	3	27	11%	0.02	0.09	0.06	1.01	0.01	0.08	0.04
NWTPH-Gasoline (mg/L)	2.3	25.0	18.5	25.0	0	28	0%	2.3	25.0	10.4	0.56	2.0	22.6	14.5
NWTPH-Heavy Oil (mg/L)	0.03	2.10	0.61	0.63	23	27	85%	0.03	0.94	0.43	0.70	0.08	0.78	0.44
Bacteria														
Coliform, Fecal (CFU/100 ml)	330	16,000	4,087	2,200	28	28	100%	500	11,100	4,809	1.18	909	5,952	2,222
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	28	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	28	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	28	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	28	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.8	0.1	0.1	4	28	14%	0.1	0.2	0.1	0.98	0.0	0.2	0.1

Table E-10 (Cont'd)
Summary Statistics for Stormwater at OF237A New WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.028	0.095	0.045	0.035	9	9	100%	0.0285	0.0724	0.0227	0.50	0.008	0.063	0.028
BOD (mg/L)	1	6.8	2.8	2.6	6	9	67%	1	5.4	2	0.71	0.7	4.3	1.3
Chloride (mg/L)	3.04	39.60	10.76	4.51	9	9	100%	3.64	29.52	13.18	1.22	4.39	20.89	0.63
Conductivity (uS/cm)	48	480	128.3	75.2	12	12	100%	50.2	300	133.1	1.04	38.4	212.9	43.8
Hardness (mg CaCO3/L)	21	53.3	31.8	29.5	12	12	100%	21.1	47.1	10.5	0.33	3	38.4	25.1
pH (pH units)	6.6	7.6	7.1	7.2	12	12	100%	6.8	7.4	0.3	0.04	0.1	7.3	6.9
TSS (mg/L)	11.6	668	81.6	25.4	12	12	100%	16.9	51.6	185.1	2.27	53.4	199.2	-36
Turbidity (NTU)	12.2	23	16.3	14.4	9	9	100%	12.6	22.3	4.2	0.26	1.4	19.5	13.1
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.221	0.839	0.437	0.396	11	11	100%	0.237	0.656	0.198	0.45	0.060	0.570	0.304
Phosphate, Ortho (mg/L)	0.011	0.027	0.020	0.021	10	10	100%	0.015	0.026	0.005	0.26	0.002	0.024	0.017
Phosphorus, Total (mg/L)	0.049	1.150	0.176	0.081	11	11	100%	0.057	0.117	0.324	1.83	0.098	0.394	-0.041
Total Nitrogen (mg/L)	0.36	0.99	0.66	0.67	11	11	100%	0.41	0.87	0.22	0.33	0.07	0.81	0.52
Metals														
Cadmium (ug/L)	0.020	0.615	0.093	0.048	5	12	42%	0.025	0.073	0.165	1.77	0.048	0.198	-0.011
Cadmium, Dissolved (ug/L)	0.005	0.042	0.020	0.025	2	12	17%	0.007	0.025	0.010	0.51	0.003	0.027	0.014
Copper (ug/L)	5.89	69.10	13.01	8.20	12	12	100%	5.99	10.69	17.76	1.36	5.13	24.30	1.73
Copper, Dissolved (ug/L)	2.05	4.34	3.06	2.94	12	12	100%	2.25	4.11	0.76	0.25	0.22	3.54	2.58
Lead (ug/L)	3.39	80.60	12.16	5.66	12	12	100%	3.82	9.65	21.66	1.78	6.25	25.92	-1.60
Lead, Dissolved (ug/L)	0.081	0.411	0.251	0.257	10	12	83%	0.114	0.374	0.097	0.39	0.028	0.312	0.189
Mercury (ug/L)	0.0021	0.0070	0.0047	0.0046	11	12	92%	0.0028	0.0065	0.0015	0.32	0.0004	0.0057	0.0038
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0026	0.0019	1	12	8%	0.0009	0.0045	0.0018	0.70	0.0005	0.0037	0.0014
Zinc (ug/L)	35.0	352	103.3	59.6	12	12	100%	36.4	307.8	112.8	1.09	32.6	175.0	31.6
Zinc, Dissolved (ug/L)	19.8	289	50.0	27.6	12	12	100%	20.5	52.7	75.8	1.52	21.9	98.2	1.9
Insecticides														
2,4-D (ug/L)	0.063	1.000	0.269	0.151	10	10	100%	0.064	0.595	0.301	1.12	0.095	0.484	0.054
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	12	0%	0.25	0.25	0	0.00	0	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.031	0.010	0.009	0	12	0%	0.003	0.028	0.010	0.92	0.003	0.017	0.004
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.003	0.016	0.007	0.005	6	12	50%	0.003	0.016	0.005	0.69	0.001	0.010	0.004
Acenaphthene (ug/L)	0.002	0.005	0.003	0.003	1	12	8%	0.002	0.004	0.001	0.30	0.000	0.003	0.002
Acenaphthylene (ug/L)	0.002	0.008	0.003	0.003	2	12	17%	0.002	0.004	0.002	0.57	0.001	0.004	0.002
Anthracene (ug/L)	0.003	0.070	0.010	0.003	4	12	33%	0.003	0.011	0.019	1.97	0.006	0.022	-0.002
Fluorene (ug/L)	0.002	0.020	0.006	0.004	5	12	42%	0.003	0.010	0.005	0.88	0.001	0.009	0.003
Naphthalene (ug/L)	0.006	0.032	0.014	0.015	8	12	67%	0.006	0.019	0.007	0.51	0.002	0.019	0.010
Phenanthrene (ug/L)	0.016	0.831	0.104	0.031	12	12	100%	0.019	0.081	0.230	2.21	0.066	0.250	-0.042
Total LPAHs¹	0.033	0.95	0.140	0.054	12	12	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.013	0.719	0.089	0.028	12	12	100%	0.013	0.072	0.199	2.23	0.058	0.216	-0.037
Benzo(a)pyrene (ug/L)	0.017	0.864	0.115	0.040	12	12	100%	0.018	0.109	0.238	2.06	0.069	0.267	-0.036
Benzo(b,k)fluoranthenes (ug/L)	0.040	2.070	0.300	0.095	12	12	100%	0.050	0.359	0.567	1.89	0.164	0.660	-0.060
Benzo(g,h,i)perylene (ug/L)	0.018	0.415	0.078	0.041	12	12	100%	0.019	0.102	0.110	1.41	0.032	0.147	0.008
Chrysene (ug/L)	0.024	1.100	0.163	0.056	12	12	100%	0.033	0.179	0.299	1.84	0.086	0.353	-0.027
Dibenz(a,h)anthracene (ug/L)	0.002	0.116	0.019	0.008	10	12	83%	0.002	0.024	0.031	1.65	0.009	0.039	-0.001
Fluoranthene (ug/L)	0.034	2.030	0.260	0.077	12	12	100%	0.038	0.218	0.562	2.16	0.162	0.617	-0.097
Indeno(1,2,3-cd)pyrene (ug/L)	0.012	0.578	0.090	0.038	12	12	100%	0.017	0.107	0.157	1.75	0.045	0.189	-0.010
Pyrene (ug/L)	0.033	1.730	0.232	0.078	12	12	100%	0.049	0.189	0.475	2.05	0.137	0.533	-0.070
Total HPAHs²	0.220	9.62	1.345	0.489	12	12	100%							
Total PAHs³	0.253	10.57	1.49	0.547	12	12	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	1.50	3.04	1.95	1.86	12	12	100%	1.61	2.45	0.43	0.22	0.12	2.22	1.68
Butyl benzyl phthalate (ug/L)	0.091	0.384	0.247	0.267	2	12	17%	0.104	0.305	0.087	0.35	0.025	0.302	0.192
Diethylphthalate (ug/L)	0.079	0.331	0.206	0.245	2	12	17%	0.086	0.263	0.081	0.39	0.023	0.257	0.155
Dimethyl phthalate (ug/L)	0.038	0.290	0.153	0.177	0	12	0%	0.039	0.230	0.094	0.61	0.027	0.213	0.093
Di-n-butylphthalate (ug/L)	0.147	0.464	0.266	0.255	5	12	42%	0.198	0.320	0.076	0.29	0.022	0.315	0.218
Di-n-Octyl phthalate (ug/L)	0.170	0.637	0.352	0.338	9	12	75%	0.178	0.508	0.135	0.38	0.039	0.437	0.266
Total Phthalates⁴	1.500	3.8	2.45	2.374	12	12	100%							
Herbicides														
Dichlobenil (ug/L)	0.010	0.111	0.044	0.044	9	12	75%	0.014	0.077	0.029	0.66	0.008	0.062	0.025
TPH														
NWTPH-Diesel (mg/L)	0.05	0.14	0.07	0.05	2	10	20%	0.05	0.13	0.04	0.54	0.01	0.09	0.04
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	10	0%	25.0	25.0	0	0.00	0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.30	2.10	0.79	0.65	10	10	100%	0.46	1.08	0.50	0.64	0.16	1.14	0.43
Bacteria														
Coliform, Fecal (CFU/100 ml)	330	16,000	5,173	2,300	10	10	100%	663	16,000	5,963	1.15	1,886	9,438	908
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	10	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.8	0.2	0.1	2	10	20%	0.1	0.4	0.2	1.18	0.1	0.3	0.0

Table E-11
Summary Statistics for Stormwater at OF237B Water Years 2002-2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.357	0.057	0.042	42	51	82%	0.006	0.082	0.061	1.07	0.009	0.074	0.040
BOD (mg/L)	1.0	7.0	2.9	2.7	27	37	73%	1	5	1.7	0.58	0.3	3.4	2.3
Chloride (mg/L)	1.87	14.60	4.82	4.10	48	48	100%	2.60	7.96	2.41	0.50	0.35	5.51	4.12
Conductivity (uS/cm)	39.5	708	125.7	110	91	91	100%	78.1	174	76.6	0.61	8	141.7	109.8
Hardness (mg CaCO3/L)	20.7	1220	54.3	46	158	158	100%	31.6	64.1	94.3	1.74	7.5	69.1	39.5
pH (pH units)	5.7	7.8	6.9	7.0	158	158	100%	6.4	7.3	0.4	0.06	0	6.9	6.8
TSS (mg/L)	3.6	278	55.4	41	151	151	100%	16	119	47.1	0.85	3.8	63	47.8
Turbidity (NTU)	7.2	50.2	21	18.1	23	23	100%	11	37.8	11.5	0.55	2.4	26	16
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.190	2.720	1.154	1.090	57	57	100%	0.705	1.756	0.463	0.40	0.061	1.277	1.031
Phosphate, Ortho (mg/L)	0.006	0.128	0.025	0.021	58	58	100%	0.015	0.038	0.018	0.70	0.002	0.030	0.021
Phosphorus, Total (mg/L)	0.017	0.310	0.104	0.092	55	56	98%	0.053	0.164	0.051	0.49	0.007	0.117	0.090
Total Nitrogen (mg/L)	0.13	3.19	1.08	1.00	56	57	98%	0.57	1.65	0.53	0.49	0.07	1.22	0.94
Metals														
Cadmium (ug/L)	0.007	0.455	0.116	0.096	56	69	81%	0.034	0.214	0.086	0.74	0.010	0.137	0.095
Cadmium, Dissolved (ug/L)	0.005	0.106	0.044	0.040	42	69	61%	0.010	0.090	0.029	0.65	0.003	0.050	0.037
Copper (ug/L)	3.97	27.90	9.19	8.21	67	67	100%	4.94	14.40	4.76	0.52	0.58	10.35	8.03
Copper, Dissolved (ug/L)	1.38	8.06	2.86	2.46	62	63	98%	1.76	3.99	1.27	0.44	0.16	3.18	2.54
Lead (ug/L)	1.52	64.20	12.06	8.20	155	157	99%	2.99	24.16	10.48	0.87	0.84	13.71	10.41
Lead, Dissolved (ug/L)	0.003	11.400	0.649	0.322	89	158	56%	0.177	1.250	1.136	1.75	0.090	0.828	0.471
Mercury (ug/L)	0.0013	0.2160	0.0255	0.0250	52	158	33%	0.0050	0.0250	0.0289	1.13	0.0023	0.0300	0.0209
Mercury, Dissolved (ug/L)	0.0009	0.1000	0.0197	0.0250	19	158	12%	0.0009	0.0250	0.0131	0.66	0.0010	0.0218	0.0177
Zinc (ug/L)	15	285	68.7	54.5	158	158	100%	27.7	132.6	48.3	0.70	3.8	76.3	61.1
Zinc, Dissolved (ug/L)	6.3	260	27.2	20.6	157	158	99%	13.5	42.6	26.2	0.96	2.1	31.3	23.1
Insecticides														
2,4-D (ug/L)	0.028	2.100	0.368	0.230	26	49	53%	0.035	0.644	0.427	1.16	0.061	0.491	0.246
Carbaryl (ug/L)	0.03	0.25	0.13	0.13	0	26	0%	0.03	0.25	0.11	0.80	0.02	0.18	0.09
Chlorpyrifos (ug/L)	0.003	0.043	0.008	0.008	1	63	2%	0.003	0.009	0.006	0.81	0.001	0.010	0.006
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.002	0.250	0.013	0.007	94	158	59%	0.003	0.022	0.023	1.80	0.002	0.016	0.009
Acenaphthene (ug/L)	0.002	0.063	0.005	0.005	27	158	17%	0.002	0.010	0.006	1.12	0.000	0.006	0.004
Acenaphthylene (ug/L)	0.002	0.064	0.005	0.005	21	158	13%	0.002	0.006	0.006	1.14	0.000	0.006	0.004
Anthracene (ug/L)	0.002	0.097	0.008	0.005	46	158	29%	0.002	0.018	0.011	1.33	0.001	0.010	0.006
Fluorene (ug/L)	0.002	0.078	0.008	0.005	63	158	40%	0.003	0.018	0.010	1.19	0.001	0.010	0.007
Naphthalene (ug/L)	0.003	0.130	0.016	0.012	108	157	69%	0.005	0.031	0.015	0.92	0.001	0.019	0.014
Phenanthrene (ug/L)	0.002	0.838	0.054	0.026	146	158	92%	0.008	0.133	0.086	1.58	0.007	0.068	0.041
Total LPAHs	0.006	1.13	0.089	0.057	157	157	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.685	0.037	0.013	119	158	75%	0.003	0.099	0.068	1.86	0.005	0.047	0.026
Benzo(a)pyrene (ug/L)	0.002	0.690	0.042	0.015	104	158	66%	0.003	0.112	0.075	1.78	0.006	0.054	0.030
Benzo(b,k)fluoranthenes (ug/L)	0.002	1.763	0.116	0.045	118	158	75%	0.006	0.311	0.199	1.72	0.016	0.147	0.084
Benzo(g,h,i)perylene (ug/L)	0.002	0.614	0.050	0.023	127	158	80%	0.003	0.131	0.074	1.47	0.006	0.062	0.039
Chrysene (ug/L)	0.002	0.965	0.077	0.029	130	158	82%	0.003	0.218	0.120	1.56	0.010	0.096	0.058
Dibenz(a,h)anthracene (ug/L)	0.001	0.143	0.010	0.005	68	158	43%	0.002	0.024	0.015	1.45	0.001	0.013	0.008
Fluoranthene (ug/L)	0.003	1.835	0.116	0.046	154	158	97%	0.009	0.297	0.198	1.71	0.016	0.147	0.085
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.546	0.036	0.015	113	158	72%	0.002	0.098	0.059	1.62	0.005	0.045	0.027
Pyrene (ug/L)	0.002	1.493	0.117	0.048	149	158	94%	0.012	0.303	0.177	1.51	0.014	0.145	0.089
Total HPAHs	0.019	8.73	0.600	0.238	157	157	100%							
Total PAHs	0.028	9.87	0.69	0.276	157	157	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.14	12	2.21	1.47	122	157	78%	0.34	4.94	2.30	1.04	0.18	2.57	1.84
Butyl benzyl phthalate (ug/L)	0.085	2.800	0.373	0.301	28	158	18%	0.129	0.500	0.346	0.93	0.027	0.427	0.318
Diethylphthalate (ug/L)	0.050	52	1.226	0.264	48	158	30%	0.114	1.037	5.457	4.45	0.434	2.083	0.368
Dimethyl phthalate (ug/L)	0.016	0.550	0.274	0.202	6	157	4%	0.031	0.500	0.198	0.72	0.016	0.305	0.243
Di-n-butylphthalate (ug/L)	0.095	1	0.367	0.423	54	158	34%	0.148	0.500	0.168	0.46	0.013	0.394	0.341
Di-n-Octyl phthalate (ug/L)	0.042	2.300	0.363	0.293	40	157	25%	0.042	0.500	0.353	0.97	0.028	0.418	0.307
Total Phthalates	0.000	66.2	3.43	2.000	137	157	87%							
Herbicides														
Dichlobenil (ug/L)	0.009	1.380	0.086	0.037	47	62	76%	0.010	0.160	0.186	2.17	0.024	0.133	0.038
TPH														
NWTPH-Diesel (mg/L)	0.02	0.34	0.05	0.05	5	51	10%	0.02	0.10	0.05	0.91	0.01	0.07	0.04
NWTPH-Gasoline (mg/L)	2.3	395	26.3	25.0	14	52	27%	2.3	25.5	53.5	2.03	7.4	41.2	11.4
NWTPH-Heavy Oil (mg/L)	0.03	1.30	0.43	0.36	43	51	84%	0.08	0.91	0.30	0.70	0.04	0.52	0.35
Bacteria														
Coliform, Fecal (CFU/100 ml)	130	22,000	5,402	2,900	50	50	100%	239	16,000	6,022	1.11	852	7,114	3,691
BTEX														
Benzene (ug/L)	0.1	0.3	0.1	0.1	1	30	3%	0.1	0.1	0.0	0.34	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.8	0.1	0.1	1	30	3%	0.1	0.1	0.1	1.04	0.0	0.2	0.1
m,p-Xylene (ug/L)	0.2	3.5	0.3	0.2	1	30	3%	0.2	0.2	0.6	1.94	0.1	0.5	0.1
o-Xylene (ug/L)	0.1	1.6	0.2	0.1	1	30	3%	0.1	0.1	0.3	1.83	0.0	0.3	0.0
Toluene (ug/L)	0.1	4.0	0.2	0.1	2	30	7%	0.1	0.1	0.7	3.05	0.1	0.5	0.0

Table E-11 (Cont'd)
Summary Statistics for Stormwater at OF237B WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.085	0.042	0.037	7	8	88%	0.022	0.074	0.025	0.59	0.009	0.063	0.021
BOD (mg/L)	1	4.4	2.7	2.5	6	7	86%	1.7	3.9	1.1	0.39	0.4	3.7	1.7
Chloride (mg/L)	1.87	14.60	6.56	5.99	8	8	100%	2.29	11.38	4.45	0.68	1.57	10.28	2.85
Conductivity (uS/cm)	81.2	366	153.6	126	11	11	100%	91.7	235	88	0.57	26.5	212.7	94.5
Hardness (mg CaCO3/L)	31.1	96.4	50.2	46.3	11	11	100%	36.5	61.4	17.9	0.36	5.4	62.2	38.2
pH (pH units)	6.6	7.6	7	6.9	11	11	100%	6.9	7.3	0.3	0.04	0.1	7.2	6.8
TSS (mg/L)	13	77.8	31.9	24.9	10	10	100%	15.5	52.6	20.4	0.64	6.5	46.5	17.3
Turbidity (NTU)	11.8	50.2	26.3	20.9	8	8	100%	16.2	43.1	12.8	0.49	4.5	37	15.5
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.628	2.720	1.132	0.964	10	10	100%	0.737	1.487	0.595	0.53	0.188	1.558	0.707
Phosphate, Ortho (mg/L)	0.015	0.031	0.021	0.021	10	10	100%	0.016	0.027	0.005	0.24	0.002	0.025	0.017
Phosphorus, Total (mg/L)	0.045	0.150	0.094	0.088	10	10	100%	0.068	0.132	0.031	0.33	0.010	0.116	0.072
Total Nitrogen (mg/L)	0.76	3.19	1.32	1.15	10	10	100%	0.86	1.62	0.69	0.53	0.22	1.81	0.82
Metals														
Cadmium (ug/L)	0.020	0.138	0.052	0.046	5	11	45%	0.022	0.079	0.034	0.66	0.010	0.074	0.029
Cadmium, Dissolved (ug/L)	0.006	0.051	0.022	0.025	3	11	27%	0.010	0.025	0.012	0.56	0.004	0.030	0.014
Copper (ug/L)	4.23	12.50	7.26	7.10	11	11	100%	5.05	10.10	2.59	0.36	0.78	9.00	5.52
Copper, Dissolved (ug/L)	1.47	3.75	2.48	2.31	11	11	100%	2.09	3.67	0.67	0.27	0.20	2.93	2.03
Lead (ug/L)	2.20	11	5.46	4.97	11	11	100%	2.44	9.41	2.94	0.54	0.88	7.43	3.49
Lead, Dissolved (ug/L)	0.069	0.246	0.180	0.188	9	11	82%	0.096	0.245	0.057	0.32	0.017	0.218	0.141
Mercury (ug/L)	0.0027	0.0099	0.0065	0.0065	11	11	100%	0.0044	0.0085	0.0021	0.32	0.0006	0.0079	0.0051
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0025	0.0020	2	11	18%	0.0009	0.0045	0.0017	0.68	0.0005	0.0036	0.0014
Zinc (ug/L)	22.6	285	63.9	40.9	11	11	100%	25.0	73.7	74.8	1.17	22.6	114.2	13.7
Zinc, Dissolved (ug/L)	13.4	260	38.9	16.7	11	11	100%	14.0	25.2	73.4	1.89	22.1	88.2	-10.4
Insecticides														
2,4-D (ug/L)	0.037	1.600	0.350	0.185	8	8	100%	0.041	0.774	0.521	1.49	0.184	0.786	-0.086
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	10	0%	0.25	0.25	0.00	0.00	0.00	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.031	0.010	0.003	0	11	0%	0.003	0.031	0.011	1.12	0.003	0.017	0.002
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.002	0.019	0.007	0.007	6	11	55%	0.003	0.013	0.006	0.77	0.002	0.011	0.003
Acenaphthene (ug/L)	0.002	0.008	0.003	0.003	1	11	9%	0.002	0.003	0.002	0.60	0.001	0.004	0.002
Acenaphthylene (ug/L)	0.002	0.008	0.004	0.003	4	11	36%	0.002	0.007	0.002	0.63	0.001	0.005	0.002
Anthracene (ug/L)	0.003	0.011	0.004	0.003	3	11	27%	0.003	0.007	0.003	0.68	0.001	0.006	0.002
Fluorene (ug/L)	0.002	0.016	0.005	0.003	4	11	36%	0.002	0.009	0.004	0.85	0.001	0.008	0.002
Naphthalene (ug/L)	0.005	0.035	0.012	0.011	4	11	36%	0.006	0.018	0.009	0.73	0.003	0.018	0.006
Phenanthrene (ug/L)	0.011	0.063	0.031	0.028	11	11	100%	0.014	0.053	0.018	0.57	0.005	0.042	0.019
Total LPAHs¹	0.027	0.11	0.059	0.049	11	11	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.007	0.036	0.017	0.014	11	11	100%	0.007	0.027	0.009	0.55	0.003	0.023	0.010
Benzo(a)pyrene (ug/L)	0.010	0.051	0.023	0.020	11	11	100%	0.013	0.038	0.013	0.54	0.004	0.032	0.015
Benzo(b,k)fluoranthenes (ug/L)	0.019	0.103	0.055	0.056	11	11	100%	0.023	0.085	0.027	0.48	0.008	0.073	0.038
Benzo(g,h,i)perylene (ug/L)	0.008	0.052	0.025	0.020	11	11	100%	0.012	0.045	0.015	0.57	0.004	0.035	0.016
Chrysene (ug/L)	0.013	0.064	0.036	0.033	11	11	100%	0.014	0.059	0.018	0.51	0.006	0.048	0.024
Dibenz(a,h)anthracene (ug/L)	0.001	0.010	0.005	0.005	7	11	64%	0.002	0.010	0.003	0.64	0.001	0.007	0.003
Fluoranthene (ug/L)	0.019	0.094	0.051	0.048	11	11	100%	0.021	0.092	0.027	0.54	0.008	0.069	0.032
Indeno(1,2,3-cd)pyrene (ug/L)	0.006	0.046	0.021	0.015	11	11	100%	0.009	0.038	0.013	0.60	0.004	0.030	0.013
Pyrene (ug/L)	0.023	0.117	0.058	0.052	11	11	100%	0.027	0.092	0.029	0.51	0.009	0.078	0.038
Total HPAHs²	0.135	0.54	0.292	0.261	11	11	100%							
Total PAHs³	0.171	0.63	0.35	0.347	11	11	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	1.07	2.95	1.86	1.70	11	11	100%	1.32	2.58	0.58	0.31	0.17	2.25	1.47
Butyl benzyl phthalate (ug/L)	0.092	0.413	0.201	0.217	1	11	9%	0.093	0.308	0.116	0.58	0.035	0.279	0.123
Diethylphthalate (ug/L)	0.079	0.266	0.169	0.159	3	11	27%	0.079	0.260	0.072	0.43	0.022	0.217	0.120
Dimethyl phthalate (ug/L)	0.039	0.233	0.108	0.040	0	11	0%	0.039	0.228	0.085	0.79	0.026	0.165	0.051
Di-n-butylphthalate (ug/L)	0.147	0.356	0.235	0.231	6	11	55%	0.150	0.349	0.070	0.30	0.021	0.282	0.188
Di-n-Octyl phthalate (ug/L)	0.108	1.630	0.400	0.256	6	11	55%	0.108	0.739	0.447	1.12	0.135	0.700	0.099
Total Phthalates⁴	1.070	3.9	2.42	2.197	11	11	100%							
Herbicides														
Dichlobenil (ug/L)	0.010	0.267	0.050	0.026	8	11	73%	0.010	0.059	0.073	1.47	0.022	0.099	0.001
TPH														
NWTPH-Diesel (mg/L)	0.05	0.14	0.06	0.05	2	11	18%	0.05	0.10	0.03	0.47	0.01	0.08	0.04
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	11	0%	25.0	25.0	0.00	0.00	0.00	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.27	1.30	0.62	0.54	11	11	100%	0.28	0.91	0.31	0.50	0.09	0.83	0.41
Bacteria														
Coliform, Fecal (CFU/100 ml)	230	16,000	3,471	790	11	11	100%	490	5,400	4,681	1.35	1,411	6,616	326
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	11	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	11	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	11	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	11	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.1	0.1	0.1	0	11	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1

**Table E-12
Summary Statistics for Stormwater at OF243 Water Years 2002-2017**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.158	0.054	0.044	15	16	94%	0.029	0.093	0.037	0.69	0.009	0.073	0.034
BOD (mg/L)	1.0	8.5	3.0	2.3	11	15	73%	1	4.7	2	0.67	0.5	4.1	1.9
Chloride (mg/L)	572	25400	3128.13	1475	16	16	100%	660.50	4070	6039.95	1.93	1509.99	6346.59	-90.34
Conductivity (uS/cm)	1590	13300	5027.6	3900	51	51	100%	2620	8930	2840.9	0.57	397.8	5826.7	4228.6
Hardness (mg CaCO3/L)	59.3	3150	508.9	394	97	97	100%	209	959.8	397.1	0.78	40.3	589	428.9
pH (pH units)	6.1	7.5	7.0	7.1	97	97	100%	6.6	7.3	0.3	0.04	0	7.1	6.9
TSS (mg/L)	4.4	300	72.9	48.7	96	96	100%	17.8	167	63.4	0.87	6.5	85.7	60
Turbidity (NTU)	0.2	146	50.8	35.3	16	16	100%	18	122	43.8	0.86	11	74.2	27.5
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.096	0.799	0.262	0.193	16	16	100%	0.103	0.476	0.188	0.71	0.047	0.362	0.162
Phosphate, Ortho (mg/L)	0.018	0.061	0.038	0.039	16	16	100%	0.024	0.047	0.011	0.30	0.003	0.044	0.032
Phosphorus, Total (mg/L)	0.096	2.430	0.639	0.404	16	16	100%	0.144	1.320	0.623	0.97	0.156	0.971	0.307
Total Nitrogen (mg/L)	0.26	0.94	0.62	0.62	16	16	100%	0.41	0.90	0.20	0.33	0.05	0.73	0.51
Metals														
Cadmium (ug/L)	0.007	1.250	0.307	0.243	11	18	61%	0.046	0.500	0.292	0.95	0.069	0.452	0.162
Cadmium, Dissolved (ug/L)	0.005	0.173	0.085	0.085	11	18	61%	0.005	0.139	0.048	0.57	0.011	0.109	0.061
Copper (ug/L)	3.22	110	27.03	18.05	18	18	100%	10.54	47.76	25.37	0.94	5.98	39.65	14.41
Copper, Dissolved (ug/L)	0.99	6.88	3	2.87	18	18	100%	1.55	4.65	1.44	0.48	0.34	3.72	2.29
Lead (ug/L)	0.12	379	42.05	24.30	97	97	100%	7.03	85.90	58.50	1.39	5.94	53.84	30.26
Lead, Dissolved (ug/L)	0.003	145	3.663	0.650	68	97	70%	0.015	4.684	15.093	4.12	1.532	6.704	0.621
Mercury (ug/L)	0.0031	0.1880	0.0328	0.0250	38	97	39%	0.0072	0.0676	0.0326	0.99	0.0033	0.0394	0.0263
Mercury, Dissolved (ug/L)	0.0009	0.5520	0.0247	0.0250	4	97	4%	0.0009	0.0250	0.0550	2.23	0.0056	0.0358	0.0136
Zinc (ug/L)	12.3	1170	106.8	81.9	97	97	100%	41.2	192.8	125.7	1.18	12.8	132.2	81.5
Zinc, Dissolved (ug/L)	6	910	39.7	26.7	97	97	100%	12.5	57	91.6	2.31	9.3	58.2	21.2
Insecticides														
2,4-D (ug/L)	0.009	0.190	0.049	0.034	8	16	50%	0.009	0.091	0.047	0.96	0.012	0.074	0.024
Carbaryl (ug/L)	0.03	0.25	0.18	0.25	0	18	0%	0.03	0.25	0.10	0.56	0.02	0.23	0.13
Chlorpyrifos (ug/L)	0.003	0.443	0.023	0.007	1	26	4%	0.003	0.009	0.086	3.72	0.017	0.058	-0.012
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.002	0.136	0.013	0.006	60	97	62%	0.003	0.033	0.017	1.32	0.002	0.017	0.010
Acenaphthene (ug/L)	0.002	0.105	0.020	0.017	84	97	87%	0.005	0.035	0.016	0.79	0.002	0.023	0.017
Acenaphthylene (ug/L)	0.002	0.064	0.009	0.005	45	97	46%	0.003	0.022	0.009	1.00	0.001	0.011	0.007
Anthracene (ug/L)	0.002	0.079	0.025	0.022	91	97	94%	0.008	0.046	0.016	0.64	0.002	0.028	0.022
Fluorene (ug/L)	0.002	0.098	0.016	0.012	79	97	81%	0.004	0.033	0.015	0.96	0.002	0.019	0.013
Naphthalene (ug/L)	0.003	0.135	0.022	0.016	69	97	71%	0.005	0.049	0.021	0.95	0.002	0.026	0.018
Phenanthrene (ug/L)	0.002	0.221	0.057	0.037	94	97	97%	0.013	0.136	0.051	0.89	0.005	0.068	0.047
Total LPAHs	0.030	0.47	0.144	0.112	97	97	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.615	0.042	0.020	76	97	78%	0.003	0.090	0.076	1.80	0.008	0.058	0.027
Benzo(a)pyrene (ug/L)	0.002	0.654	0.042	0.019	68	97	70%	0.003	0.090	0.076	1.80	0.008	0.057	0.027
Benzo(b,k)fluoranthenes (ug/L)	0.005	1.430	0.111	0.048	84	97	87%	0.006	0.260	0.180	1.63	0.018	0.147	0.074
Benzo(g,h,i)perylene (ug/L)	0.002	0.503	0.044	0.025	79	97	81%	0.004	0.106	0.063	1.44	0.006	0.057	0.031
Chrysene (ug/L)	0.002	0.788	0.081	0.040	90	97	93%	0.005	0.192	0.118	1.46	0.012	0.104	0.057
Dibenz(a,h)anthracene (ug/L)	0.002	0.684	0.016	0.005	41	97	42%	0.002	0.020	0.069	4.35	0.007	0.030	0.002
Fluoranthene (ug/L)	0.013	0.444	0.108	0.063	97	97	100%	0.019	0.262	0.100	0.93	0.010	0.128	0.088
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.620	0.034	0.019	71	97	73%	0.003	0.073	0.067	1.97	0.007	0.048	0.021
Pyrene (ug/L)	0.012	0.620	0.113	0.066	97	97	100%	0.019	0.262	0.113	1.00	0.011	0.135	0.090
Total HPAHs	0.031	5.84	0.582	0.315	97	97	100%							
Total PAHs	0.065	6.05	0.73	0.416	97	97	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.20	41	2.26	1.30	75	96	78%	0.34	4.70	4.38	1.94	0.45	3.15	1.37
Butyl benzyl phthalate (ug/L)	0.085	9.200	1.060	0.318	32	97	33%	0.097	3.040	1.828	1.72	0.186	1.429	0.692
Diethylphthalate (ug/L)	0.070	7.600	0.476	0.260	24	97	25%	0.106	0.590	0.851	1.79	0.086	0.648	0.305
Dimethyl phthalate (ug/L)	0.016	1.000	0.297	0.228	1	96	1%	0.016	0.500	0.217	0.73	0.022	0.341	0.253
Di-n-butylphthalate (ug/L)	0.050	1.270	0.378	0.460	26	97	27%	0.148	0.500	0.209	0.55	0.021	0.420	0.335
Di-n-Octyl phthalate (ug/L)	0.042	1.280	0.324	0.446	11	95	12%	0.042	0.500	0.233	0.72	0.024	0.372	0.277
Total Phthalates	0.000	41.0	3.34	1.800	84	97	87%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.034	0.014	0.012	9	26	35%	0.010	0.025	0.007	0.53	0.001	0.017	0.011
TPH														
NWTPH-Diesel (mg/L)	0.02	0.18	0.06	0.05	1	17	6%	0.05	0.05	0.03	0.60	0.01	0.07	0.04
NWTPH-Gasoline (mg/L)	2.3	25.0	22.5	25.0	0	18	0%	18.2	25.0	7.3	0.33	1.7	26.1	18.8
NWTPH-Heavy Oil (mg/L)	0.03	0.83	0.31	0.31	13	17	76%	0.03	0.56	0.22	0.68	0.05	0.42	0.20
Bacteria														
Coliform, Fecal (CFU/100 ml)	170	16,000	4,826	2,400	17	17	100%	306	16,000	5,834	1.21	1,415	7,826	1,826
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	18	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	18	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.6	0.2	0.2	1	18	6%	0.2	0.2	0.1	0.42	0.0	0.3	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	18	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.5	0.2	0.1	4	18	22%	0.1	0.3	0.1	0.77	0.0	0.2	0.1

Table E-12 (Cont'd)
Summary Statistics for Stormwater at OF243 WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventional														
Anionic Surfactants - MBAS (ug/L)	0.031	0.095	0.055	0.043	6	6	100%	0.032	0.090	0.028	0.51	0.011	0.084	0.025
BOD (mg/L)	1	4.7	2.9	2.9	5	6	83%	1.6	4.3	1.3	0.46	0.5	4.3	1.5
Chloride (mg/L)	741	25400	5627.67	1380	6	6	100%	813	14690	9759.44	1.73	3984.27	15869.57	-4614.23
Conductivity (uS/cm)	2730	13300	6318.6	5780	7	7	100%	2982	10240	3698.2	0.59	1397.8	9738.9	2898.3
Hardness (mg CaCO3/L)	284	1250	588.3	547	7	7	100%	288.8	923	337.2	0.57	127.4	900.1	276.5
pH (pH units)	7	7.3	7.1	7.1	7	7	100%	7.1	7.2	0.1	0.01	0	7.2	7.1
TSS (mg/L)	14.8	289	103.4	37.8	7	7	100%	21.6	218.2	104.4	1.01	39.5	200.0	6.8
Turbidity (NTU)	0.2	140	48.4	37.4	6	6	100%	11.3	96.5	48.3	1.00	19.7	99.1	-2.3
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.134	0.799	0.328	0.252	6	6	100%	0.152	0.579	0.246	0.75	0.100	0.586	0.069
Phosphate, Ortho (mg/L)	0.018	0.043	0.033	0.034	6	6	100%	0.024	0.042	0.009	0.27	0.004	0.042	0.024
Phosphorus, Total (mg/L)	0.096	1.360	0.575	0.303	6	6	100%	0.102	1.320	0.588	1.02	0.240	1.192	-0.043
Total Nitrogen (mg/L)	0.41	0.88	0.58	0.51	6	6	100%	0.44	0.79	0.18	0.31	0.07	0.76	0.39
Metals														
Cadmium (ug/L)	0.063	1.250	0.371	0.143	5	7	71%	0.082	0.786	0.424	1.14	0.160	0.764	-0.021
Cadmium, Dissolved (ug/L)	0.053	0.125	0.087	0.083	4	7	57%	0.059	0.121	0.028	0.32	0.011	0.113	0.062
Copper (ug/L)	3.22	110.0	40.69	25.90	7	7	100%	9.87	84.50	36.75	0.90	13.89	74.68	6.70
Copper, Dissolved (ug/L)	2.17	6.88	3.70	3.14	7	7	100%	2.24	5.73	1.68	0.45	0.63	5.25	2.14
Lead (ug/L)	0.12	115.0	31.20	19.70	7	7	100%	2.27	73.72	40.31	1.29	15.23	68.47	-6.08
Lead, Dissolved (ug/L)	0.003	0.196	0.062	0.021	4	7	57%	0.009	0.140	0.071	1.13	0.027	0.128	-0.003
Mercury (ug/L)	0.0032	0.1530	0.0346	0.0125	7	7	100%	0.0046	0.0858	0.0538	1.56	0.0203	0.0844	-0.0152
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0016	0.0009	1	7	14%	0.0009	0.0029	0.0014	0.87	0.0005	0.0028	0.0003
Zinc (ug/L)	12.3	233.0	89.5	73.7	7	7	100%	31.4	163.4	71.9	0.80	27.2	156	23.1
Zinc, Dissolved (ug/L)	10.9	34.1	21.3	16.7	7	7	100%	13.5	33	8.9	0.42	3.4	29.5	13.1
Insecticides														
2,4-D (ug/L)	0.009	0.190	0.053	0.028	4	6	67%	0.009	0.122	0.069	1.32	0.028	0.125	-0.020
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	7	0%	0.25	0.25	0.00	0.00	0.0	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.009	0.005	0.003	0	7	0%	0.003	0.009	0.003	0.56	0.001	0.008	0.003
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.003	0.013	0.005	0.004	1	7	14%	0.003	0.008	0.004	0.80	0.001	0.008	0.001
Acenaphthene (ug/L)	0.002	0.012	0.009	0.011	6	7	86%	0.006	0.012	0.004	0.38	0.001	0.013	0.006
Acenaphthylene (ug/L)	0.007	0.022	0.011	0.009	7	7	100%	0.008	0.015	0.005	0.47	0.002	0.016	0.006
Anthracene (ug/L)	0.019	0.077	0.038	0.033	7	7	100%	0.021	0.058	0.020	0.52	0.007	0.056	0.019
Fluorene (ug/L)	0.006	0.015	0.010	0.009	7	7	100%	0.007	0.014	0.004	0.35	0.001	0.014	0.007
Naphthalene (ug/L)	0.004	0.018	0.012	0.011	4	7	57%	0.005	0.017	0.006	0.48	0.002	0.017	0.006
Phenanthrene (ug/L)	0.013	0.074	0.035	0.027	7	7	100%	0.014	0.068	0.025	0.69	0.009	0.058	0.013
Total LPAHs¹	0.081	0.21	0.115	0.087	7	7	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.010	0.615	0.108	0.021	7	7	100%	0.012	0.274	0.224	2.07	0.085	0.315	-0.099
Benzo(a)pyrene (ug/L)	0.013	0.654	0.120	0.031	7	7	100%	0.014	0.301	0.236	1.96	0.089	0.339	-0.098
Benzo(b,k)fluoranthenes (ug/L)	0.029	1.430	0.272	0.058	7	7	100%	0.036	0.686	0.514	1.89	0.194	0.747	-0.203
Benzo(g,h,i)perylene (ug/L)	0.012	0.503	0.100	0.035	7	7	100%	0.023	0.233	0.178	1.77	0.067	0.265	-0.064
Chrysene (ug/L)	0.022	0.788	0.154	0.042	7	7	100%	0.024	0.376	0.281	1.82	0.106	0.414	-0.106
Dibenz(a,h)anthracene (ug/L)	0.004	0.684	0.104	0.007	7	7	100%	0.005	0.281	0.256	2.46	0.097	0.341	-0.132
Fluoranthene (ug/L)	0.032	0.248	0.087	0.069	7	7	100%	0.033	0.157	0.076	0.87	0.029	0.157	0.017
Indeno(1,2,3-cd)pyrene (ug/L)	0.011	0.620	0.112	0.026	7	7	100%	0.017	0.276	0.224	2.00	0.085	0.320	-0.095
Pyrene (ug/L)	0.036	0.293	0.107	0.093	7	7	100%	0.038	0.190	0.090	0.84	0.034	0.190	0.024
Total HPAHs²	0.185	5.84	1.166	0.358	7	7	100%							
Total PAHs³	0.267	6.05	1.28	0.445	7	7	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.77	3.95	2.01	1.68	7	7	100%	1.13	3.19	1.05	0.52	0.40	2.98	1.03
Butyl benzyl phthalate (ug/L)	0.093	1.640	0.406	0.302	1	7	14%	0.093	0.847	0.555	1.37	0.210	0.919	-0.107
Diethylphthalate (ug/L)	0.078	0.274	0.171	0.166	1	7	14%	0.078	0.266	0.093	0.55	0.035	0.257	0.085
Dimethyl phthalate (ug/L)	0.039	0.240	0.121	0.039	0	7	0%	0.039	0.233	0.103	0.85	0.039	0.217	0.026
Di-n-butylphthalate (ug/L)	0.251	0.357	0.277	0.262	4	7	57%	0.253	0.319	0.038	0.14	0.014	0.312	0.242
Di-n-Octyl phthalate (ug/L)	0.172	1.280	0.420	0.223	4	7	57%	0.172	0.792	0.400	0.95	0.151	0.790	0.050
Total Phthalates⁴	0.767	7.2	2.78	1.865	7	7	100%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.025	0.012	0.010	3	7	43%	0.006	0.020	0.007	0.58	0.003	0.018	0.006
TPH														
NWTPH-Diesel (mg/L)	0.05	0.18	0.07	0.05	1	8	13%	0.05	0.09	0.05	0.69	0.02	0.10	0.03
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	8	0%	25.0	25.0	0	0.00	0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.10	0.83	0.44	0.41	7	8	88%	0.23	0.65	0.22	0.51	0.08	0.62	0.25
Bacteria														
Coliform, Fecal (CFU/100 ml)	310	16,000	6,304	3,900	8	8	100%	324	16,000	6,703	1.06	2,370	11,907	700
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	8	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	8	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.6	0.3	0.2	1	8	13%	0.2	0.3	0.1	0.57	0.1	0.4	0.1
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	8	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.1	0.1	0.1	0	8	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1

Table E-13
Summary Statistics for Stormwater at OF245 Water Years 2002-2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.006	0.434	0.085	0.068	44	46	96%	0.028	0.126	0.072	0.85	0.011	0.106	0.063
BOD (mg/L)	1.0	7.1	2.9	2.6	27	33	82%	1	4.5	1.4	0.50	0.2	3.4	2.4
Chloride (mg/L)	0.63	559	87.53	31	40	40	100%	11.77	218.70	126.10	1.44	19.94	127.86	47.21
Conductivity (uS/cm)	54.7	2310	397.3	282.5	82	82	100%	96.4	763.5	421.1	1.06	46.5	489.8	304.8
Hardness (mg CaCO3/L)	14	285	62.8	48	146	146	100%	26.2	117.5	43.8	0.70	3.6	70	55.7
pH (pH units)	5.6	7.9	6.9	6.9	146	146	100%	6.3	7.3	0.4	0.06	0	6.9	6.8
TSS (mg/L)	6.2	296	64.4	51.5	142	142	100%	18.7	122.8	47.6	0.74	4	72.3	56.5
Turbidity (NTU)	11.6	97.1	40.5	36.4	21	21	100%	19.4	58.9	23.3	0.58	5.1	51.1	29.9
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.034	1.010	0.207	0.143	47	47	100%	0.087	0.357	0.194	0.93	0.028	0.264	0.151
Phosphate, Ortho (mg/L)	0.002	0.689	0.048	0.026	46	49	94%	0.008	0.071	0.098	2.04	0.014	0.076	0.020
Phosphorus, Total (mg/L)	0.056	1.510	0.208	0.147	45	45	100%	0.075	0.328	0.230	1.11	0.034	0.277	0.138
Total Nitrogen (mg/L)	0.02	1.97	0.71	0.60	46	47	98%	0.34	1.17	0.41	0.58	0.06	0.83	0.59
Metals														
Cadmium (ug/L)	0.007	2.410	0.370	0.294	59	66	89%	0.089	0.545	0.386	1.05	0.048	0.465	0.275
Cadmium, Dissolved (ug/L)	0.005	1.850	0.178	0.100	52	66	79%	0.051	0.255	0.290	1.63	0.036	0.249	0.107
Copper (ug/L)	3	42.60	15.27	13.90	66	66	100%	6.47	25.80	8.35	0.55	1.03	17.32	13.22
Copper, Dissolved (ug/L)	0.02	26.10	4.15	3.32	63	65	97%	1.81	8.37	3.57	0.86	0.44	5.03	3.27
Lead (ug/L)	1.57	60	11.61	9.50	145	146	99%	3.36	23.80	9.23	0.80	0.76	13.12	10.10
Lead, Dissolved (ug/L)	0.010	6.270	0.629	0.471	73	146	50%	0.089	1.250	0.731	1.16	0.060	0.749	0.510
Mercury (ug/L)	0.0015	0.8700	0.0279	0.0250	43	146	29%	0.0045	0.0250	0.0740	2.65	0.0061	0.0400	0.0158
Mercury, Dissolved (ug/L)	0.0009	0.1080	0.0201	0.0250	10	146	7%	0.0009	0.0250	0.0142	0.71	0.0012	0.0224	0.0178
Zinc (ug/L)	27.7	585	149.9	122	145	145	100%	54.7	275.6	104.5	0.70	8.7	167	132.7
Zinc, Dissolved (ug/L)	0.8	335	62.7	44.3	144	145	99%	24.7	123.2	50.5	0.80	4.2	71	54.4
Insecticides														
2,4-D (ug/L)	0.009	1.500	0.206	0.045	9	51	18%	0.009	0.485	0.285	1.38	0.040	0.286	0.126
Carbaryl (ug/L)	0.03	0.25	0.14	0.25	0	27	0%	0.03	0.25	0.11	0.79	0.02	0.19	0.10
Chlorpyrifos (ug/L)	0.003	0.754	0.020	0.008	3	63	5%	0.003	0.009	0.094	4.75	0.012	0.044	-0.004
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.001	1.143	0.031	0.011	100	145	69%	0.003	0.039	0.110	3.59	0.009	0.049	0.013
Acenaphthene (ug/L)	0.002	0.855	0.019	0.010	97	145	67%	0.004	0.028	0.071	3.72	0.006	0.031	0.007
Acenaphthylene (ug/L)	0.001	0.095	0.009	0.005	62	145	43%	0.002	0.016	0.013	1.43	0.001	0.012	0.007
Anthracene (ug/L)	0.002	0.289	0.013	0.005	64	145	44%	0.003	0.021	0.029	2.26	0.002	0.017	0.008
Fluorene (ug/L)	0.001	0.928	0.027	0.012	102	145	70%	0.003	0.037	0.089	3.27	0.007	0.042	0.013
Naphthalene (ug/L)	0.002	0.795	0.037	0.020	110	144	76%	0.006	0.062	0.078	2.13	0.007	0.050	0.024
Phenanthrene (ug/L)	0.002	1.650	0.073	0.044	143	145	99%	0.014	0.131	0.151	2.06	0.013	0.098	0.049
Total LPAHs	0.007	4.61	0.172	0.100	145	145	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.247	0.022	0.012	99	145	68%	0.003	0.057	0.029	1.32	0.002	0.027	0.017
Benzo(a)pyrene (ug/L)	0.001	0.133	0.021	0.012	93	145	64%	0.003	0.056	0.024	1.12	0.002	0.025	0.017
Benzo(b,k)fluoranthenes (ug/L)	0.002	0.414	0.054	0.030	104	145	72%	0.005	0.141	0.063	1.16	0.005	0.064	0.044
Benzo(g,h,i)perylene (ug/L)	0.002	0.112	0.028	0.018	112	145	77%	0.003	0.069	0.026	0.95	0.002	0.032	0.023
Chrysene (ug/L)	0.002	0.420	0.049	0.023	118	145	81%	0.003	0.139	0.062	1.26	0.005	0.060	0.039
Dibenz(a,h)anthracene (ug/L)	0.002	0.027	0.006	0.005	41	145	28%	0.002	0.014	0.005	0.84	0.000	0.007	0.005
Fluoranthene (ug/L)	0.002	1.720	0.077	0.041	139	145	96%	0.011	0.165	0.151	1.96	0.013	0.102	0.052
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.058	0.016	0.012	93	145	64%	0.002	0.040	0.015	0.93	0.001	0.018	0.013
Pyrene (ug/L)	0.002	1.310	0.094	0.050	143	145	99%	0.013	0.219	0.135	1.43	0.011	0.116	0.072
Total HPAHs	0.011	4.39	0.360	0.202	145	145	100%							
Total PAHs	0.020	9.01	0.53	0.324	145	145	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.20	31	2.78	1.70	118	143	83%	0.50	5.20	4.02	1.45	0.34	3.44	2.11
Butyl benzyl phthalate (ug/L)	0.085	290	12.403	0.382	83	145	57%	0.144	28.200	36.282	2.93	3.013	18.359	6.448
Diethylphthalate (ug/L)	0.077	430	3.388	0.296	44	145	30%	0.124	0.500	35.677	10.53	2.963	9.244	-2.468
Dimethyl phthalate (ug/L)	0.016	1.100	0.289	0.207	12	144	8%	0.038	0.500	0.209	0.73	0.017	0.323	0.254
Di-n-butylphthalate (ug/L)	0.104	1.600	0.425	0.500	59	145	41%	0.210	0.536	0.213	0.50	0.018	0.459	0.390
Di-n-Octyl phthalate (ug/L)	0.042	4.100	0.333	0.248	15	145	10%	0.042	0.500	0.421	1.26	0.035	0.402	0.264
Total Phthalates	0.000	593.1	18.33	2.533	138	145	95%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.167	0.027	0.019	33	62	53%	0.009	0.049	0.029	1.07	0.004	0.034	0.020
TPH														
NWTPH-Diesel (mg/L)	0.02	0.33	0.06	0.05	6	44	14%	0.03	0.10	0.05	0.84	0.01	0.07	0.04
NWTPH-Gasoline (mg/L)	2.3	62.3	20.1	25.0	13	46	28%	3.7	26.0	12.1	0.60	1.8	23.6	16.5
NWTPH-Heavy Oil (mg/L)	0.03	1.10	0.34	0.31	35	44	80%	0.05	0.68	0.24	0.71	0.04	0.42	0.27
Bacteria														
Coliform, Fecal (CFU/100 ml)	50	88,000	7,627	1,700	43	43	100%	230	16,000	14,991	1.97	2,286	12,241	3,014
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	25	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	25	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	25	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	25	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.3	0.1	0.1	2	25	8%	0.1	0.1	0.0	0.39	0.0	0.1	0.1

Table E-13 (Cont'd)
Summary Statistics for Stormwater at OF245 WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.026	0.124	0.058	0.054	11	11	100%	0.027	0.098	0.031	0.53	0.009	0.078	0.037
BOD (mg/L)	1	5.7	3.4	3.8	10	11	91%	2	5.4	1.5	0.45	0.5	4.4	2.4
Chloride (mg/L)	16.70	520	109.01	79.90	11	11	100%	26.60	122	141.93	1.30	42.79	204.36	13.66
Conductivity (uS/cm)	98.1	1810	471.5	440	13	13	100%	119	568.4	436.1	0.92	120.9	735	208
Hardness (mg CaCO3/L)	21.2	195	61.3	58	13	13	100%	28	74.8	44.3	0.72	12.3	88.1	34.5
pH (pH units)	6.8	7.9	7.1	7	13	13	100%	6.8	7.4	0.3	0.04	0.1	7.3	6.9
TSS (mg/L)	12.4	296	58.9	34.8	13	13	100%	18.6	88.8	74.7	1.27	20.7	104	13.8
Turbidity (NTU)	11.6	97.1	43.2	34.9	11	11	100%	21.1	95.3	29.0	0.67	8.7	62.6	23.7
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.079	0.297	0.163	0.138	12	12	100%	0.090	0.266	0.076	0.47	0.022	0.211	0.115
Phosphate, Ortho (mg/L)	0.01	0.69	0.10	0.04	12	12	100%	0.02	0.14	0.19	1.87	0.05	0.22	-0.02
Phosphorus, Total (mg/L)	0.07	1.51	0.29	0.12	11	11	100%	0.07	0.34	0.42	1.46	0.13	0.57	0.01
Total Nitrogen (mg/L)	0.27	1.97	0.77	0.69	12	12	100%	0.37	1.11	0.47	0.62	0.14	1.07	0.46
Metals														
Cadmium (ug/L)	0.054	1.560	0.344	0.157	9	13	69%	0.060	0.673	0.420	1.22	0.116	0.598	0.090
Cadmium, Dissolved (ug/L)	0.018	0.964	0.163	0.068	9	13	69%	0.026	0.377	0.264	1.62	0.073	0.322	0.003
Copper (ug/L)	4.45	42.60	13.90	12.30	13	13	100%	5.74	22.54	10.36	0.75	2.87	20.16	7.64
Copper, Dissolved (ug/L)	1.07	6.20	3.20	2.42	13	13	100%	1.49	5.41	1.69	0.53	0.47	4.23	2.18
Lead (ug/L)	1.57	33.80	8.70	5.67	13	13	100%	3.22	14.45	8.47	0.97	2.35	13.81	3.58
Lead, Dissolved (ug/L)	0.017	0.403	0.141	0.076	8	13	62%	0.027	0.318	0.129	0.92	0.036	0.219	0.062
Mercury (ug/L)	0.0016	0.0105	0.0047	0.0045	13	13	100%	0.0017	0.0081	0.0028	0.58	0.0008	0.0064	0.0031
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0020	0.0009	0	13	0%	0.0009	0.0045	0.0017	0.86	0.0005	0.0031	0.0010
Zinc (ug/L)	31.2	230	90.8	71.6	13	13	100%	44.2	170.6	58.9	0.65	16.3	126.4	55.2
Zinc, Dissolved (ug/L)	14.9	81.8	32.5	25.8	13	13	100%	21.2	58.8	19.1	0.59	5.3	44.1	21.0
Insecticides														
2,4-D (ug/L)	0.009	0.140	0.031	0.009	5	12	42%	0.009	0.060	0.039	1.25	0.011	0.056	0.006
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	12	0%	0.25	0.25	0.00	0.00	0.00	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.031	0.011	0.009	1	13	8%	0.003	0.030	0.011	1.02	0.003	0.018	0.004
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.003	0.039	0.013	0.011	10	13	77%	0.004	0.022	0.010	0.76	0.003	0.019	0.007
Acenaphthene (ug/L)	0.003	0.082	0.018	0.011	11	13	85%	0.003	0.036	0.022	1.21	0.006	0.031	0.005
Acenaphthylene (ug/L)	0.002	0.012	0.006	0.006	8	13	62%	0.003	0.011	0.004	0.57	0.001	0.008	0.004
Anthracene (ug/L)	0.003	0.019	0.009	0.008	11	13	85%	0.004	0.013	0.005	0.52	0.001	0.012	0.006
Fluorene (ug/L)	0.003	0.072	0.016	0.009	11	13	85%	0.004	0.033	0.019	1.15	0.005	0.028	0.005
Naphthalene (ug/L)	0.004	0.037	0.024	0.025	7	13	54%	0.009	0.035	0.010	0.44	0.003	0.030	0.017
Phenanthrene (ug/L)	0.017	0.105	0.049	0.034	13	13	100%	0.021	0.095	0.029	0.59	0.008	0.066	0.031
Total LPAHs¹	0.034	0.31	0.122	0.101	13	13	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.005	0.024	0.012	0.012	13	13	100%	0.006	0.019	0.006	0.46	0.002	0.016	0.009
Benzo(a)pyrene (ug/L)	0.004	0.024	0.015	0.016	12	13	92%	0.009	0.023	0.006	0.40	0.002	0.019	0.011
Benzo(b,k)fluoranthenes (ug/L)	0.006	0.062	0.035	0.031	12	13	92%	0.021	0.057	0.016	0.45	0.004	0.045	0.026
Benzo(g,h,i)perylene (ug/L)	0.008	0.031	0.020	0.022	13	13	100%	0.009	0.029	0.008	0.40	0.002	0.024	0.015
Chrysene (ug/L)	0.003	0.060	0.026	0.024	12	13	92%	0.010	0.043	0.016	0.60	0.004	0.035	0.016
Dibenz(a,h)anthracene (ug/L)	0.002	0.008	0.004	0.004	7	13	54%	0.002	0.007	0.002	0.60	0.001	0.005	0.002
Fluoranthene (ug/L)	0.015	0.093	0.048	0.038	13	13	100%	0.027	0.075	0.024	0.49	0.007	0.062	0.034
Indeno(1,2,3-cd)pyrene (ug/L)	0.006	0.021	0.012	0.012	13	13	100%	0.006	0.020	0.005	0.43	0.001	0.016	0.009
Pyrene (ug/L)	0.018	0.108	0.060	0.051	13	13	100%	0.037	0.096	0.028	0.46	0.008	0.076	0.043
Total HPAHs²	0.066	0.38	0.232	0.208	13	13	100%							
Total PAHs³	0.111	0.62	0.35	0.304	13	13	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	1.08	3.39	1.82	1.51	13	13	100%	1.24	2.86	0.69	0.38	0.19	2.24	1.40
Butyl benzyl phthalate (ug/L)	0.094	0.313	0.227	0.227	3	13	23%	0.094	0.307	0.087	0.38	0.024	0.279	0.175
Diethylphthalate (ug/L)	0.079	0.301	0.221	0.254	5	13	38%	0.140	0.269	0.065	0.29	0.018	0.260	0.182
Dimethyl phthalate (ug/L)	0.039	0.233	0.129	0.135	1	13	8%	0.039	0.230	0.087	0.68	0.024	0.182	0.076
Di-n-butylphthalate (ug/L)	0.145	0.419	0.260	0.253	6	13	46%	0.163	0.352	0.074	0.29	0.021	0.305	0.215
Di-n-Octyl phthalate (ug/L)	0.107	0.175	0.143	0.167	0	13	0%	0.108	0.175	0.033	0.23	0.009	0.163	0.123
Total Phthalates⁴	1.080	3.4	2.12	2.092	13	13	100%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.050	0.016	0.010	5	13	38%	0.004	0.031	0.013	0.81	0.004	0.024	0.008
TPH														
NWTPH-Diesel (mg/L)	0.05	0.13	0.06	0.05	2	10	20%	0.05	0.11	0.03	0.47	0.01	0.09	0.04
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	10	0%	25.0	25.0	0	0.00	0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.26	0.84	0.50	0.48	10	10	100%	0.29	0.70	0.19	0.37	0.06	0.64	0.37
Bacteria														
Coliform, Fecal (CFU/100 ml)	130	16,000	6,533	3,095	10	10	100%	220	16,000	7,125	1.09	2,253	11,630	1,436
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	10	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1

Table E-14
Summary Statistics for Stormwater at OF254 Water Years 2002-2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventional														
Anionic Surfactants - MBAS (ug/L)	0.006	0.169	0.063	0.043	21	22	95%	0.029	0.129	0.044	0.69	0.009	0.083	0.044
BOD (mg/L)	1.0	69	5.2	2.1	11	20	55%	1	3.0	15.0	2.88	3.4	12.3	-1.8
Chloride (mg/L)	493	5490	2110.82	1645	22	22	100%	790	4185	1334.26	0.63	284.47	2702.40	1519.24
Conductivity (uS/cm)	4.9	16400	5146.4	4260	65	65	100%	1440	9408	3436.2	0.67	426.2	5997.8	4295
Hardness (mg CaCO3/L)	49.5	1720	516.2	432.5	124	124	100%	176.6	884.1	337.5	0.65	30.3	576.2	456.3
pH (pH units)	6.2	8.1	7.1	7.1	124	124	100%	6.6	7.6	0.4	0.05	0	7.1	7.0
TSS (mg/L)	5.2	354	98	79.3	122	122	100%	31.3	209.3	71.7	0.73	6.5	110.9	85.2
Turbidity (NTU)	0.5	216	80.6	55.9	22	22	100%	20.6	193.8	63.4	0.79	13.5	108.7	52.4
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.049	0.285	0.134	0.140	23	23	100%	0.069	0.218	0.062	0.46	0.013	0.161	0.107
Phosphate, Ortho (mg/L)	0.007	0.045	0.024	0.021	23	23	100%	0.013	0.038	0.010	0.43	0.002	0.028	0.019
Phosphorus, Total (mg/L)	0.082	1.090	0.205	0.136	23	23	100%	0.091	0.293	0.225	1.10	0.047	0.303	0.108
Total Nitrogen (mg/L)	0.03	1.27	0.54	0.48	22	23	96%	0.25	0.84	0.29	0.53	0.06	0.66	0.41
Metals														
Cadmium (ug/L)	0.067	0.543	0.234	0.221	17	24	71%	0.090	0.354	0.122	0.523	0.025	0.286	0.182
Cadmium, Dissolved (ug/L)	0.005	0.273	0.119	0.128	18	24	75%	0.041	0.184	0.064	0.541	0.013	0.146	0.092
Copper (ug/L)	8.16	56.30	16.58	13.65	24	24	100%	8.68	24.04	10.54	0.636	2.15	21.03	12.13
Copper, Dissolved (ug/L)	0.77	10.50	2.59	1.97	24	24	100%	0.91	5.36	2.21	0.855	0.45	3.52	1.65
Lead (ug/L)	3.05	68	17.69	13.65	121	124	98%	4.89	36.31	13.10	0.740	1.18	20.02	15.36
Lead, Dissolved (ug/L)	0.012	12.200	1.250	0.550	79	124	64%	0.046	2.840	2.237	1.790	0.201	1.647	0.852
Mercury (ug/L)	0.0035	0.3070	0.0328	0.0250	56	124	45%	0.0070	0.0657	0.0347	1.059	0.0031	0.0389	0.0266
Mercury, Dissolved (ug/L)	0.0009	0.2110	0.0219	0.0250	5	124	4%	0.0009	0.0250	0.0221	1.009	0.0020	0.0259	0.0180
Zinc (ug/L)	43.1	427	137.1	119	124	124	100%	51.7	260.2	78.3	0.571	7	151.1	123.2
Zinc, Dissolved (ug/L)	5.1	239	49.1	36.6	124	124	100%	21.4	93.2	37	0.754	3.3	55.7	42.5
Insecticides														
2,4-D (ug/L)	0.009	0.230	0.062	0.029	10	23	43%	0.009	0.166	0.066	1.07	0.014	0.091	0.033
Carbaryl (ug/L)	0.03	0.25	0.18	0.25	0	23	0%	0.03	0.25	0.10	0.54	0.02	0.22	0.14
Chlorpyrifos (ug/L)	0.003	0.320	0.018	0.008	2	32	6%	0.003	0.021	0.056	3.10	0.010	0.038	-0.002
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.001	0.435	0.022	0.012	97	124	78%	0.004	0.037	0.048	2.17	0.004	0.031	0.014
Acenaphthene (ug/L)	0.002	0.352	0.019	0.010	80	124	65%	0.003	0.033	0.038	2.00	0.003	0.025	0.012
Acenaphthylene (ug/L)	0.001	0.070	0.011	0.005	60	124	48%	0.003	0.023	0.012	1.13	0.001	0.013	0.008
Anthracene (ug/L)	0.002	0.389	0.037	0.012	84	124	68%	0.004	0.089	0.061	1.64	0.006	0.048	0.026
Fluorene (ug/L)	0.001	0.159	0.023	0.013	95	124	77%	0.003	0.052	0.028	1.24	0.003	0.028	0.018
Naphthalene (ug/L)	0.002	0.126	0.024	0.020	95	124	77%	0.007	0.042	0.021	0.86	0.002	0.028	0.020
Phenanthrene (ug/L)	0.002	0.657	0.090	0.050	122	124	98%	0.017	0.188	0.104	1.15	0.009	0.108	0.071
Total LPAHs	0.016	1.24	0.199	0.117	124	124	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.001	0.915	0.074	0.028	104	124	84%	0.003	0.177	0.109	1.48	0.010	0.093	0.054
Benzo(a)pyrene (ug/L)	0.002	0.428	0.061	0.030	104	124	84%	0.005	0.155	0.072	1.19	0.006	0.074	0.048
Benzo(b,k)fluoranthenes (ug/L)	0.005	1.662	0.163	0.079	106	124	85%	0.006	0.425	0.215	1.32	0.019	0.201	0.124
Benzo(g,h,i)perylene (ug/L)	0.002	0.253	0.052	0.034	107	124	86%	0.004	0.125	0.050	0.97	0.005	0.061	0.043
Chrysene (ug/L)	0.002	1.906	0.148	0.061	113	124	91%	0.008	0.398	0.223	1.51	0.020	0.187	0.108
Dibenz(a,h)anthracene (ug/L)	0.002	0.071	0.012	0.006	66	124	53%	0.002	0.030	0.012	1.00	0.001	0.015	0.010
Fluoranthene (ug/L)	0.003	3.964	0.257	0.092	121	124	98%	0.017	0.611	0.438	1.70	0.039	0.335	0.179
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.239	0.036	0.023	99	124	80%	0.003	0.088	0.039	1.07	0.003	0.043	0.029
Pyrene (ug/L)	0.002	4.120	0.257	0.101	121	124	98%	0.021	0.652	0.435	1.69	0.039	0.335	0.180
Total HPAHs	0.027	13.56	1.056	0.472	124	124	100%							
Total PAHs	0.047	14.68	1.26	0.579	124	124	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	0.14	10.20	2.35	1.62	96.00	124	77%	0.44	5.74	2.12	0.90	0.19	2.73	1.97
Butyl benzyl phthalate (ug/L)	0.085	6.100	0.489	0.448	31	124	25%	0.144	0.910	0.650	1.33	0.058	0.605	0.374
Diethylphthalate (ug/L)	0.070	120	1.552	0.262	28	124	23%	0.112	0.500	10.863	7.00	0.976	3.483	-0.378
Dimethyl phthalate (ug/L)	0.016	3.200	0.370	0.231	25	124	20%	0.044	0.500	0.419	1.13	0.038	0.445	0.296
Di-n-butylphthalate (ug/L)	0.100	1.300	0.417	0.500	42	124	34%	0.170	0.500	0.166	0.40	0.015	0.446	0.387
Di-n-Octyl phthalate (ug/L)	0.042	4.500	0.416	0.486	26	122	21%	0.042	0.550	0.516	1.24	0.047	0.509	0.323
Total Phthalates	0.000	123.2	4.12	2.026	116	124	94%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.263	0.033	0.012	11	32	34%	0.010	0.090	0.054	1.65	0.010	0.052	0.013
TPH														
NWTPH-Diesel (mg/L)	0.02	0.16	0.07	0.05	9	25	36%	0.03	0.14	0.04	0.58	0.01	0.09	0.05
NWTPH-Gasoline (mg/L)	2.3	25.0	19.1	25.0	0	27	0%	2.3	25.0	10.1	0.53	1.9	23.1	15.1
NWTPH-Heavy Oil (mg/L)	0.03	1.70	0.59	0.50	22	25	88%	0.12	1.06	0.43	0.74	0.09	0.76	0.41
Bacteria														
Coliform, Fecal (CFU/100 ml)	220	61,600	8,350	2,950	26	26	100%	300	16,000	12,615	1.51	2,474	13,446	3,255
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	27	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	27	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	27	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	27	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	1.0	0.2	0.1	5	27	19%	0.1	0.3	0.2	1.17	0.0	0.2	0.1

Table E-14 (Cont'd)
Summary Statistics for Stormwater at OF254 WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Anionic Surfactants - MBAS (ug/L)	0.038	0.169	0.079	0.057	9	9	100%	0.040	0.119	0.043	0.542	0.014	0.111	0.046
BOD (mg/L)	1	69.0	10.4	2.5	6	8	75%	1	22.6	23.7	2.274	8.4	30.2	-9.4
Chloride (mg/L)	493	5490	2222	1520	9	9	100%	599	4514	1782	0.80	594	3592	852
Conductivity (uS/cm)	1790	16400	7123	6335	10	10	100%	2195	13070	4875	0.68	1541	10610	3636
Hardness (mg CaCO3/L)	161	1650	704.9	587	10	10	100%	206	1398	507	0.719	160.3	1067.6	342.2
pH (pH units)	6.8	7.6	7.2	7.1	10	10	100%	7.0	7.5	0.2	0.034	0.1	7.3	7.0
TSS (mg/L)	24.6	346	76	42.5	10	10	100%	30.9	114.1	96.7	1.271	30.6	145.2	6.9
Turbidity (NTU)	0.5	216	68.6	51.3	9	9	100%	16.9	153.6	67.6	0.99	22.5	120.6	16.7
Nutrients														
Nitrate+Nitrite as N (mg/L)	0.070	0.285	0.144	0.146	10	10	100%	0.073	0.226	0.069	0.48	0.022	0.193	0.095
Phosphate, Ortho (mg/L)	0.007	0.042	0.024	0.023	10	10	100%	0.012	0.039	0.012	0.48	0.004	0.033	0.016
Phosphorus, Total (mg/L)	0.082	1.090	0.265	0.118	10	10	100%	0.086	0.678	0.333	1.26	0.105	0.504	0.027
Total Nitrogen (mg/L)	0.24	1.27	0.62	0.54	10	10	100%	0.24	1.10	0.35	0.56	0.11	0.87	0.37
Metals														
Cadmium (ug/L)	0.067	0.543	0.199	0.143	5	10	50%	0.076	0.325	0.148	0.743	0.047	0.305	0.093
Cadmium, Dissolved (ug/L)	0.023	0.183	0.093	0.078	7	10	70%	0.038	0.181	0.061	0.655	0.019	0.136	0.049
Copper (ug/L)	8.92	56.30	17.85	11.83	10	10	100%	8.98	26.24	14.49	0.812	4.58	28.21	7.49
Copper, Dissolved (ug/L)	0.91	10.50	2.83	2.09	10	10	100%	1.04	4.07	2.80	0.989	0.88	4.83	0.83
Lead (ug/L)	4.02	33.80	8.61	5.42	10	10	100%	4.17	11.95	9.02	1.047	2.85	15.07	2.16
Lead, Dissolved (ug/L)	0.012	1.030	0.218	0.139	7	10	70%	0.020	0.387	0.302	1.385	0.096	0.434	0.002
Mercury (ug/L)	0.0035	0.0250	0.0076	0.0069	10	10	100%	0.0036	0.0097	0.0063	0.833	0.0020	0.0122	0.0031
Mercury, Dissolved (ug/L)	0.0009	0.0045	0.0021	0.0009	1	10	10%	0.0009	0.0045	0.0017	0.816	0.0005	0.0033	0.0009
Zinc (ug/L)	44.7	213	74.2	52.2	10	10	100%	47.6	94.8	50.7	0.683	16.0	110.5	38.0
Zinc, Dissolved (ug/L)	16.4	38.1	26.6	26.3	10	10	100%	19.7	34.2	6.9	0.260	2.2	31.5	21.6
Insecticides														
2,4-D (ug/L)	0.009	0.170	0.065	0.027	6	9	67%	0.009	0.154	0.064	0.99	0.021	0.114	0.016
Carbaryl (ug/L)	0.25	0.25	0.25	0.25	0	10	0%	0.25	0.25	0.00	0.00	0.00	0.25	0.25
Chlorpyrifos (ug/L)	0.003	0.030	0.011	0.006	1	10	10%	0.003	0.030	0.011	1.00	0.004	0.019	0.003
PAHs														
LPAHs														
2-Methylnaphthalene (ug/L)	0.004	0.295	0.038	0.011	8	10	80%	0.004	0.043	0.090	2.40	0.029	0.102	-0.027
Acenaphthene (ug/L)	0.002	0.018	0.006	0.003	4	10	40%	0.002	0.010	0.005	0.90	0.002	0.009	0.002
Acenaphthylene (ug/L)	0.003	0.031	0.010	0.007	9	10	90%	0.006	0.013	0.008	0.80	0.002	0.015	0.004
Anthracene (ug/L)	0.006	0.019	0.010	0.008	10	10	100%	0.007	0.015	0.004	0.42	0.001	0.013	0.007
Fluorene (ug/L)	0.002	0.029	0.009	0.008	6	10	60%	0.002	0.016	0.008	0.93	0.003	0.015	0.003
Naphthalene (ug/L)	0.004	0.09	0.023	0.013	5	10	50%	0.009	0.041	0.026	1.13	0.008	0.042	0.004
Phenanthrene (ug/L)	0.018	0.092	0.041	0.031	10	10	100%	0.018	0.091	0.028	0.68	0.009	0.061	0.021
Total LPAHs¹	0.037	0.25	0.098	0.082	10	10	100%							
HPAHs in ug/L														
Benzo(a)anthracene (ug/L)	0.008	0.042	0.018	0.015	10	10	100%	0.010	0.029	0.010	0.59	0.003	0.025	0.010
Benzo(a)pyrene (ug/L)	0.013	0.051	0.026	0.022	10	10	100%	0.014	0.042	0.013	0.50	0.004	0.035	0.017
Benzo(b,k)fluoranthenes (ug/L)	0.029	0.123	0.051	0.041	10	10	100%	0.033	0.074	0.028	0.55	0.009	0.071	0.031
Benzo(g,h,i)perylene (ug/L)	0.011	0.037	0.023	0.023	10	10	100%	0.012	0.035	0.012	0.50	0.004	0.031	0.015
Chrysene (ug/L)	0.013	0.103	0.031	0.023	10	10	100%	0.015	0.047	0.027	0.86	0.008	0.050	0.012
Dibenz(a,h)anthracene (ug/L)	0.002	0.011	0.007	0.008	8	10	80%	0.002	0.011	0.004	0.57	0.001	0.010	0.004
Fluoranthene (ug/L)	0.032	0.157	0.053	0.038	10	10	100%	0.032	0.070	0.038	0.73	0.012	0.080	0.025
Indeno(1,2,3-cd)pyrene (ug/L)	0.007	0.030	0.016	0.016	10	10	100%	0.008	0.025	0.008	0.51	0.003	0.021	0.010
Pyrene (ug/L)	0.036	0.162	0.068	0.062	10	10	100%	0.041	0.087	0.036	0.53	0.011	0.094	0.043
Total HPAHs²	0.160	0.71	0.293	0.237	10	10	100%							
Total PAHs³	0.217	0.88	0.39	0.322	10	10	100%							
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/L)	1.14	7.61	2.33	1.55	10	10	100%	1.25	3.88	1.98	0.85	0.63	3.75	0.92
Butyl benzyl phthalate (ug/L)	0.093	0.302	0.199	0.213	1	10	10%	0.093	0.302	0.097	0.49	0.031	0.268	0.129
Diethylphthalate (ug/L)	0.079	0.260	0.160	0.139	1	10	10%	0.079	0.260	0.083	0.52	0.026	0.220	0.101
Dimethyl phthalate (ug/L)	0.039	0.228	0.119	0.112	1	10	10%	0.039	0.228	0.083	0.69	0.026	0.179	0.060
Di-n-butylphthalate (ug/L)	0.252	0.478	0.338	0.335	7	10	70%	0.254	0.427	0.075	0.22	0.024	0.391	0.284
Di-n-Octyl phthalate (ug/L)	0.108	0.427	0.181	0.172	2	10	20%	0.108	0.275	0.099	0.55	0.031	0.251	0.110
Total Phthalates⁴	1.260	8.1	2.73	1.987	10	10	100%							
Herbicides														
Dichlobenil (ug/L)	0.004	0.263	0.039	0.010	3	10	30%	0.004	0.067	0.080	2.02	0.025	0.096	-0.018
TPH														
NWTPH-Diesel (mg/L)	0.05	0.14	0.09	0.10	6	10	60%	0.05	0.13	0.04	0.40	0.01	0.11	0.06
NWTPH-Gasoline (mg/L)	25.0	25.0	25.0	25.0	0	10	0%	25.0	25.0	0.0	0.0	0.0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.25	1.10	0.59	0.53	10	10	100%	0.33	1.01	0.27	0.47	0.09	0.78	0.39
Bacteria														
Coliform, Fecal (CFU/100 ml)	490	16,000	6,799	4,450	10	10	100%	1,039	16,000	6,552	0.96	2,072	11,486	2,112
BTEX														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	10	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.1	0.1	0.1	0	10	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1

**Table E-15
Summary Statistics for Stormwater Sediment at OF230 FD3New WY2002-WY2017**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
2	Conventionals														
7	Total Organic Carbon (mg/Kg)	2.64	13	7	6	16	16	100%	4	10	3	0.41	1	8	5
8	Total Solids (%)	30.1	65	50	51	16	16	100%	37	63	10	0.20	3	56	45
9	Total Volatile Solids (%)	10	22	14	11	3	3	100%	10	20	7	0.45	4	31	-2
10	Nutrients														
11	Phosphorus, Total (mg/Kg)	1160	1560	1360	1360	1	2	50%	1200	1520	283	0.21	200	3901	-1181
12	Metals														
13	Cadmium (mg/Kg dry)	0.448	0.926	0.660	0.605	3	3	100%	0.479	0.862	0.244	0.369	0.141	1.265	0.054
14	Copper (mg/Kg dry)	57.4	87	75	81	3	3	100%	62	86	16	0.21	9	114	36
15	Lead (mg/Kg dry)	73.3	1420.0	243.5	171.0	15	15	100%	89.4	240.4	330.0	1.4	85.2	426.3	60.8
16	Mercury (mg/Kg dry)	0.0514	0.827	0.218	0.127	15	15	100%	0.069	0.503	0.221	1.018	0.057	0.340	0.095
17	Zinc (mg/Kg dry)	288	3200	658	442	15	15	100%	321	700	717	1.09	185	1055	261
18	TPH														
19	NWTPH-Diesel (mg/Kg)	7.2	960	193	135	15	16	94%	67	340	226	1.17	56	313	73
20	NWTPH-Heavy Oil (mg/Kg)	25	8300	3914	3600	16	16	100%	1750	6300	2135	0.55	534	5051	2777
21	PAHs														
22	LPAHs														
23	2-Methylnaphthalene (ug/Kg)	25	310	102	91	12	16	75%	35	168	74	0.72	18	141	63
24	Acenaphthene (ug/Kg)	49.5	350	145	130	15	16	94%	69	240	78	0.54	19	186	104
25	Acenaphthylene (ug/Kg)	14	93	46	50	7	16	44%	27	67	20	0.43	5	57	36
26	Anthracene (ug/Kg)	115	640	360	348	16	16	100%	245	500	125	0.35	31	426	293
27	Fluorene (ug/Kg)	79	390	187	179	16	16	100%	127	260	73	0.39	18	227	148
28	Naphthalene (ug/Kg)	59	310	135	135	16	16	100%	66	190	63	0.46	16	169	102
29	Phenanthrene (ug/Kg)	1010	5400	2717	2485	16	16	100%	1795	4000	1043	0.38	261	3273	2161
30	Total LPAHs	1393	6935	3591	3377	16	16	100%	2337	5210	1311	0.36	328	4289	2893
31	HPAHs														
32	Benzo(a)anthracene (ug/Kg)	610	3400	1914	1850	16	16	100%	1085	2800	726	0.38	181	2301	1527
33	Benzo(a)pyrene (ug/Kg)	790	5870	2168	2050	16	16	100%	1065	2950	1191	0.55	298	2803	1534
34	Benzo(b,k)fluoranthenes (ug/Kg)	391	3000	1733	1480	16	16	100%	765	3000	890	0.51	222	2207	1259
35	Benzo(g,h,i)perylene (ug/Kg)	1900	17900	5874	5535	16	16	100%	2520	7650	3690	0.63	922	7840	3907
36	Chrysene (ug/Kg)	1350	5000	2783	2800	16	16	100%	1765	3950	943	0.34	236	3286	2281
37	Dibenz(a,h)anthracene (ug/Kg)	45	2700	541	446	13	16	81%	80	780	621	1.15	155	872	210
38	Fluoranthene (ug/Kg)	1260	6800	4242	4430	16	16	100%	2650	6200	1533	0.36	383	5059	3425
39	Indeno(1,2,3-c,d)pyrene (ug/Kg)	350	4260	1662	1315	16	16	100%	607	2600	994	0.60	248	2192	1132
40	Pyrene (ug/Kg)	1900	9400	5034	4735	16	16	100%	2400	7750	2138	0.42	535	6174	3895
41	Total HPAHs	9464	45680	25951	25283	16	16	100%	14278	39123	9912	0.38	2478	31233	20669
42	Total PAHs	10857	49053	29542	28473	16	16	100%	16953	44490	10827	0.37	2707	35312	23773
43	Phthalates														
44	bis(2-Ethylhexyl)phthalate (ug/Kg)	4700	43000	20266	22000	16	16	100%	6675	31200	10992	0.54	2748	26123	14408
45	Butyl benzyl phthalate (ug/Kg)	360	4700	1217	960	15	16	94%	424	2015	1088	0.89	272	1797	637
46	Diethylphthalate (ug/Kg)	19	170	50	50	5	16	31%	28	50	34	0.67	8	68	32
47	Dimethyl phthalate (ug/Kg)	8.5	1200	176	73	9	16	56%	24	265	287	1.63	72	329	23
48	Di-n-butylphthalate (ug/Kg)	91	2400	549	290	16	16	100%	161	1050	584	1.06	146	860	238
49	Di-n-Octyl phthalate (ug/Kg)	16.5	9290	2138	1735	14	16	88%	237	3815	2252	1.05	563	3338	938
50	Total Phthalates	6254	48810	24310	26035	16	16	100%							
51	Insecticides														
52	Bifenthrin (ug/Kg)	17	142	61	23	3	3	100%	18	118	71	1.16	41	236	-114
53	PCBs														
54	Aroclor-1016 (ug/Kg)	0.32	40	10	5	0	16	0%	2	28	12	1.12	3	17	4
55	Aroclor-1221 (ug/Kg)	0.32	49	12	7	1	16	6%	2	36	15	1.19	4	20	4
56	Aroclor-1232 (ug/Kg)	0.32	74	14	6	1	16	6%	2	36	19	1.41	5	24	3
57	Aroclor-1242 (ug/Kg)	0.32	40	11	5	0	16	0%	2	28	12	1.11	3	17	4
58	Aroclor-1248 (ug/Kg)	0.32	40	11	9	0	16	0%	2	28	11	1.01	3	17	5
59	Aroclor-1254 (ug/Kg)	2.00	581	231	190	11	16	69%	7	520	203	0.88	51	339	123
60	Aroclor-1260 (ug/Kg)	0.32	220	35	10	3	16	19%	2	109	61	1.76	15	67	2
61	TOTAL PCBs	0.00	713	261	190	11	16	69%							

Table E-16
Summary Statistics for Stormwater Sediment at OF235 FD6 WY2002-WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Total Organic Carbon (mg/Kg)	3.45	8	5	5	16	16	100%	4	7	1	0.25	0	6	5
Total Solids (%)	54.5	73	65	64	16	16	100%	59	71	5	0.08	1	67	62
Total Volatile Solids (%)	11.3	14	13	13	3	3	100%	12	14	2	0.12	1	17	9
Nutrients														
Phosphorus, Total (mg/Kg)	884	1180	1078	1170	3	3	100%	941	1178	168	0.16	97	1496	660
Metals														
Cadmium (mg/Kg dry)	0.557	0.819	0.661	0.623	5	5	100%	0.571	0.776	0.105	0.159	0.047	0.791	0.530
Copper (mg/Kg dry)	84.4	137	110	115	5	5	100%	87	130	22	0.20	10	136	83
Lead (mg/Kg dry)	88.2	205.0	142.0	143.0	16	16	100%	95.7	192.5	35.6	0.3	8.9	161.0	123.1
Mercury (mg/Kg dry)	0.0479	1.350	0.165	0.083	16	16	100%	0.056	0.167	0.319	1.928	0.080	0.335	-0.005
Zinc (mg/Kg dry)	219	600	370	339	16	16	100%	292	478	94	0.25	24	420	320
TPH														
NWTPH-Diesel (mg/Kg)	65	1000	190	135	15	16	94%	81	245	222	1.17	56	309	72
NWTPH-Heavy Oil (mg/Kg)	1600	4700	2988	2600	16	16	100%	1900	4500	1056	0.35	264	3550	2425
PAHs														
LPAHs														
2-Methylnaphthalene (ug/Kg)	25	150	76	70	10	16	63%	39	125	37	0.49	9	96	56
Acenaphthene (ug/Kg)	22	270	81	63	11	16	69%	41	132	60	0.74	15	112	49
Acenaphthylene (ug/Kg)	11	179	44	41	4	16	25%	14	54	39	0.88	10	65	23
Anthracene (ug/Kg)	77	430	221	190	16	16	100%	115	366	103	0.46	26	276	167
Fluorene (ug/Kg)	30	270	104	108	11	16	69%	38	166	65	0.62	16	139	70
Naphthalene (ug/Kg)	25	251	92	88	10	16	63%	41	146	57	0.62	14	122	61
Phenanthrene (ug/Kg)	589	2400	1255	1140	16	16	100%	875	1775	458	0.37	115	1499	1011
Total LPAHs	820	3550	1798	1725	16	16	100%	1182	2400	673	0.37	168	2157	1439
HPAHs														
Benzo(a)anthracene (ug/Kg)	120	1300	700	627	16	16	100%	428	1125	303	0.43	76	862	539
Benzo(a)pyrene (ug/Kg)	320	1100	684	640	16	16	100%	414	1031	245	0.36	61	815	554
Benzo(b,k)fluoranthenes (ug/Kg)	224	1600	602	512	16	16	100%	275	1150	390	0.65	97	809	394
Benzo(g,h,i)perylene (ug/Kg)	490	2700	1542	1545	16	16	100%	740	2445	638	0.41	160	1882	1201
Chrysene (ug/Kg)	380	1800	1107	1100	16	16	100%	701	1680	388	0.35	97	1314	900
Dibenz(a,h)anthracene (ug/Kg)	15.5	900	151	93	12	16	75%	46	221	208	1.38	52	262	40
Fluoranthene (ug/Kg)	910	2650	1549	1305	16	16	100%	1030	2465	593	0.38	148	1865	1233
Indeno(1,2,3-c,d)pyrene (ug/Kg)	170	930	418	350	16	16	100%	247	636	195	0.47	49	522	314
Pyrene (ug/Kg)	560	4200	2166	2200	16	16	100%	940	3190	956	0.44	239	2675	1656
Total HPAHs	4680	14070	8919	8555	16	16	100%	5259	12443	2963	0.33	741	10498	7340
Total PAHs	6050	17620	10716	10335	16	16	100%	6313	14843	3534	0.33	883	12599	8833
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/Kg)	1600	22000	13738	13400	16	16	100%	8850	19150	5019	0.37	1255	16412	11063
Butyl benzyl phthalate (ug/Kg)	520	3800	1362	1200	16	16	100%	605	2000	825	0.61	206	1802	922
Diethylphthalate (ug/Kg)	14	87	42	49	2	16	13%	17	66	22	0.53	6	53	30
Dimethyl phthalate (ug/Kg)	43	310	102	87	12	16	75%	49	176	72	0.71	18	140	63
Di-n-butylphthalate (ug/Kg)	72	370	208	180	15	16	94%	113	328	93	0.45	23	258	158
Di-n-Octyl phthalate (ug/Kg)	14.5	2800	1082	1200	12	16	75%	21	2180	879	0.81	220	1551	614
Total Phthalates	2960	28880	16474	16778	16	16	100%							
Insecticides														
Bifenthrin (ug/Kg)	13	22	17	16	3	3	100%	14	21	5	0.27	3	28	6
PCBs														
Aroclor-1016 (ug/Kg)	0.315	40	10	5	0	16	0%	1	28	12	1.15	3	17	4
Aroclor-1221 (ug/Kg)	0.315	40	11	6	0	16	0%	2	28	12	1.10	3	17	4
Aroclor-1232 (ug/Kg)	0.315	40	11	5	0	16	0%	2	28	12	1.11	3	17	4
Aroclor-1242 (ug/Kg)	0.315	40	10	5	0	16	0%	1	28	12	1.14	3	17	4
Aroclor-1248 (ug/Kg)	0.315	40	11	8	0	16	0%	1	28	12	1.05	3	17	5
Aroclor-1254 (ug/Kg)	0.5	110	29	28	7	16	44%	3	51	28	0.95	7	44	14
Aroclor-1260 (ug/Kg)	0.315	44	15	10	2	16	13%	1	42	16	1.07	4	23	6
TOTAL PCBs	0	110	27	0	7	16	44%							

Table E-17
Summary Statistics for Stormwater Sediment at OF237A FD2 WY2002-WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Total Organic Carbon (mg/Kg)	2.86	17	7	6	16	16	100%	4	12	4	0.56	1	9	5
Total Solids (%)	48.6	92	63	63	16	16	100%	55	67	9	0.14	2	68	58
Total Volatile Solids (%)	12.4	19	15	15	3	3	100%	13	18	3	0.21	2	23	7
Nutrients														
Phosphorus, Total (mg/Kg)	925	1880	1365	1290	3	3	100%	998	1762	482	0.35	278	2562	168
Metals														
Cadmium (mg/Kg dry)	0.538	0.853	0.714	0.733	4	4	100%	0.591	0.823	0.131	0.184	0.066	0.923	0.505
Copper (mg/Kg dry)	57.7	100	81	82	4	4	100%	60	100	22	0.28	11	116	45
Lead (mg/Kg dry)	50.9	114.0	85.8	85.8	16	16	100%	58.6	109.0	19.8	0.2	5.0	96.4	75.3
Mercury (mg/Kg dry)	0.029	0.129	0.069	0.066	16	16	100%	0.043	0.101	0.026	0.376	0.006	0.083	0.055
Zinc (mg/Kg dry)	220	473	323	315	16	16	100%	248	410	68	0.21	17	359	287
TPH														
NWTPH-Diesel (mg/Kg)	69	780	165	130	16	16	100%	80	175	168	1.02	42	254	75
NWTPH-Heavy Oil (mg/Kg)	1400	4300	2731	2500	16	16	100%	2000	3800	827	0.30	207	3172	2291
PAHs														
LPAHs														
2-Methylnaphthalene (ug/Kg)	2.5	184	82	71	10	16	63%	44	140	47	0.57	12	107	57
Acenaphthene (ug/Kg)	11	300	111	94	15	16	94%	30	195	75	0.68	19	151	70
Acenaphthylene (ug/Kg)	2.5	50	33	32	4	16	25%	13	50	16	0.49	4	41	24
Anthracene (ug/Kg)	43	890	375	348	16	16	100%	95	645	228	0.61	57	496	253
Fluorene (ug/Kg)	18	270	160	175	16	16	100%	50	256	77	0.48	19	200	119
Naphthalene (ug/Kg)	13	220	116	119	15	16	94%	72	156	45	0.39	11	140	92
Phenanthrene (ug/Kg)	247	4600	2510	2580	16	16	100%	619	4350	1317	0.52	329	3212	1808
Total LPAHs	417.5	5890	3305	3304	16	16	100%	879	5800	1695	0.51	424	4208	2402
HPAHs														
Benzo(a)anthracene (ug/Kg)	194	3700	1950	2020	16	16	100%	369	3200	1059	0.54	265	2514	1386
Benzo(a)pyrene (ug/Kg)	260	3300	1870	1900	16	16	100%	312	3050	945	0.51	236	2374	1367
Benzo(b,k)fluoranthenes (ug/Kg)	180	9300	1968	1715	16	16	100%	291	2950	2143	1.09	536	3110	826
Benzo(g,h,i)perylene (ug/Kg)	721	8500	4671	4750	16	16	100%	774	7950	2616	0.56	654	6065	3277
Chrysene (ug/Kg)	305	6900	2946	2830	16	16	100%	545	4600	1732	0.59	433	3869	2023
Dibenz(a,h)anthracene (ug/Kg)	37	2800	544	386	15	16	94%	58	860	658	1.21	164	894	193
Fluoranthene (ug/Kg)	671	7700	3810	3795	16	16	100%	980	5750	1862	0.49	465	4802	2818
Indeno(1,2,3-c,d)pyrene (ug/Kg)	205	2800	1409	1500	16	16	100%	237	2200	751	0.53	188	1809	1009
Pyrene (ug/Kg)	551	9500	4751	4875	16	16	100%	1070	7800	2545	0.54	636	6107	3394
Total HPAHs	3305	40020	23918	24613	16	16	100%	4543	35610	11745	0.49	2936	30176	17660
Total PAHs	3740	45870	27223	28108	16	16	100%	5414	41430	13344	0.49	3336	34334	20113
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/Kg)	1300	24000	10357	9050	16	16	100%	3850	19000	6555	0.63	1639	13850	6864
Butyl benzyl phthalate (ug/Kg)	140	2200	872	729	16	16	100%	295	1950	621	0.71	155	1203	541
Diethylphthalate (ug/Kg)	3.5	250	50	50	4	16	25%	17	57	56	1.11	14	80	20
Dimethyl phthalate (ug/Kg)	15	2200	251	62	11	16	69%	31	455	538	2.14	134	538	-35
Di-n-butylphthalate (ug/Kg)	49.5	731	308	260	13	16	81%	65	600	218	0.71	55	424	192
Di-n-Octyl phthalate (ug/Kg)	11.5	4800	1227	1045	14	16	88%	83	1970	1130	0.92	283	1830	625
Total Phthalates	1664	31210	13008	11300	16	16	100%							
Insecticides														
Bifenthrin (ug/Kg)	29	40	35	35	3	3	100%	30	39	6	0.16	3	48	21
PCBs														
Aroclor-1016 (ug/Kg)	1	40	11	5	0	16	0%	2	32	13	1.19	3	18	4
Aroclor-1221 (ug/Kg)	1	40	11	6	0	16	0%	3	32	12	1.10	3	18	5
Aroclor-1232 (ug/Kg)	1	49	13	5	0	16	0%	3	40	15	1.23	4	21	4
Aroclor-1242 (ug/Kg)	0.5	40	11	5	0	16	0%	2	32	13	1.17	3	18	4
Aroclor-1248 (ug/Kg)	0.5	40	12	7	0	16	0%	2	32	13	1.08	3	18	5
Aroclor-1254 (ug/Kg)	0.5	110	29	11	5	16	31%	2	81	36	1.22	9	49	10
Aroclor-1260 (ug/Kg)	2.5	150	49	40	7	16	44%	5	106	46	0.94	11	74	25
TOTAL PCBs	0	197	63	64	10	16	63%							

Table E-18
Summary Statistics for Stormwater Sediment at OF237B FD1 WY2002-WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Total Organic Carbon (mg/Kg)	0.572	11	3	2	16	16	100%	1	6	3	0.85	1	4	2
Total Solids (%)	62.7	83	72	72	16	16	100%	65	79	6	0.08	1	75	69
Total Volatile Solids (%)	3.1	5	4	5	3	3	100%	3	5	1	0.23	1	7	2
Nutrients														
Phosphorus, Total (mg/Kg)	456	658	541	510	3	3	100%	467	628	105	0.19	60	801	282
Metals														
Cadmium (mg/Kg dry)	0.320	0.649	0.454	0.371	5	5	100%	0.338	0.617	0.145	0.319	0.065	0.634	0.275
Copper (mg/Kg dry)	30.9	64	48	42	5	5	100%	34	64	15	0.31	7	67	29
Lead (mg/Kg dry)	27.8	129.0	53.4	44.3	16	16	100%	32.6	75.2	24.9	0.5	6.2	66.6	40.1
Mercury (mg/Kg dry)	0.018	0.162	0.053	0.043	15	16	94%	0.026	0.083	0.035	0.659	0.009	0.071	0.034
Zinc (mg/Kg dry)	123	277	192	192	16	16	100%	142	226	38	0.20	9	212	172
TPH														
NWTPH-Diesel (mg/Kg)	1.55	780	87	40	11	16	69%	11	106	188	2.15	47	187	-13
NWTPH-Heavy Oil (mg/Kg)	520	3000	1353	1300	16	16	100%	680	2200	693	0.51	173	1722	984
PAHs														
LPAHs														
2-Methylnaphthalene (ug/Kg)	3.5	120	39	40	3	16	19%	10	50	27	0.70	7	54	25
Acenaphthene (ug/Kg)	3.5	170	59	43	7	16	44%	9	145	55	0.95	14	88	29
Acenaphthylene (ug/Kg)	4.5	50	30	29	1	16	6%	11	50	17	0.56	4	39	21
Anthracene (ug/Kg)	7.5	500	155	110	13	16	81%	11	380	155	1.00	39	238	73
Fluorene (ug/Kg)	4	240	78	54	8	16	50%	9	195	76	0.98	19	118	37
Naphthalene (ug/Kg)	4	160	43	34	4	16	25%	10	75	39	0.89	10	64	23
Phenanthrene (ug/Kg)	36	3500	1151	930	16	16	100%	116	2550	1009	0.88	252	1689	613
Total LPAHs	82	4509	1516	1258	16	16	100%	159	3394	1317	0.87	329	2218	815
HPAHs														
Benzo(a)anthracene (ug/Kg)	52	2200	720	677	16	16	100%	99	1300	579	0.80	145	1028	411
Benzo(a)pyrene (ug/Kg)	62	2200	685	603	16	16	100%	135	1200	562	0.82	140	984	385
Benzo(b,k)fluoranthenes (ug/Kg)	47	2900	869	569	16	16	100%	126	2200	901	1.04	225	1349	389
Benzo(g,h,i)perylene (ug/Kg)	147	7300	2074	1469	16	16	100%	366	4450	1982	0.96	495	3130	1018
Chrysene (ug/Kg)	68	3000	1030	990	16	16	100%	210	1950	801	0.78	200	1457	603
Dibenz(a,h)anthracene (ug/Kg)	5.5	410	158	166	15	16	94%	41	305	117	0.74	29	220	95
Fluoranthene (ug/Kg)	77	4700	1715	1800	16	16	100%	252	2950	1280	0.75	320	2397	1032
Indeno(1,2,3-c,d)pyrene (ug/Kg)	65	1600	532	435	16	16	100%	127	1080	439	0.82	110	766	298
Pyrene (ug/Kg)	73	7400	1974	1925	16	16	100%	272	3300	1845	0.93	461	2957	990
Total HPAHs	636	28310	9756	8846	16	16	100%	1685	18690	7765	0.80	1941	13894	5619
Total PAHs	718	32819	11273	10125	16	16	100%	1845	21674	9011	0.80	2253	16074	6471
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/Kg)	1500	17000	4623	3750	16	16	100%	1900	7250	3803	0.82	951	6650	2597
Butyl benzyl phthalate (ug/Kg)	16	1700	362	228	15	16	94%	81	735	419	1.16	105	585	138
Diethylphthalate (ug/Kg)	6.5	190	43	30	2	16	13%	16	60	43	1.01	11	66	20
Dimethyl phthalate (ug/Kg)	4.5	7200	504	40	4	16	25%	10	244	1788	3.54	447	1457	-448
Di-n-butylphthalate (ug/Kg)	10	490	126	70	9	16	56%	21	285	133	1.05	33	197	55
Di-n-Octyl phthalate (ug/Kg)	11.5	2000	628	613	12	16	75%	21	1090	521	0.83	130	905	350
Total Phthalates	1568	21060	6214	4545	16	16	100%							
Insecticides														
Bifenthrin (ug/Kg)	2	17	10	11	3	3	100%	4	16	8	0.75	4	29	-9
PCBs														
Aroclor-1016 (ug/Kg)	0.5	40	10	5	0	16	0%	1	31	13	1.24	3	17	3
Aroclor-1221 (ug/Kg)	0.5	40	11	5	0	16	0%	1	31	12	1.16	3	17	4
Aroclor-1232 (ug/Kg)	0.5	40	10	5	0	16	0%	1	31	13	1.20	3	17	4
Aroclor-1242 (ug/Kg)	0.5	40	10	4	0	16	0%	1	31	13	1.22	3	17	4
Aroclor-1248 (ug/Kg)	0.5	40	11	6	0	16	0%	1	31	13	1.13	3	18	4
Aroclor-1254 (ug/Kg)	0.5	43	13	8	2	16	13%	1	39	14	1.13	4	20	5
Aroclor-1260 (ug/Kg)	0.5	45	15	10	3	16	19%	1	39	16	1.03	4	23	7
TOTAL PCBs	0	88	10	0	3	16	19%							

Table E-19
Summary Statistics for Stormwater Sediment at OF243 FD23 WY2002-WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Total Organic Carbon (mg/Kg)	3.71	14	8	7	12	12	100%	5	12	3	0.35	1	10	6
Total Solids (%)	18.6	47	32	31	16	16	100%	23	43	8	0.24	2	36	28
Total Volatile Solids (%)	17	25	20	19	3	3	100%	17	24	4	0.20	2	30	10
Nutrients														
Phosphorus, Total (mg/Kg)	10300	13300	11800	11800	2	2	100%	10600	13000	2121	0.18	1500	30859	-7259
Metals														
Cadmium (mg/Kg dry)	2.470	5.550	4.093	4.175	4	4	100%	2.902	5.217	1.279	0.313	0.640	6.128	2.057
Copper (mg/Kg dry)	221	288	245	235	4	4	100%	222	275	31	0.13	15	294	195
Lead (mg/Kg dry)	343.0	913.0	558.3	504.0	12	12	100%	388.6	810.0	187.4	0.3	54.1	677.4	439.3
Mercury (mg/Kg dry)	0.257	0.972	0.457	0.326	13	13	100%	0.260	0.885	0.247	0.540	0.068	0.606	0.308
Zinc (mg/Kg dry)	440	936	765	765	12	12	100%	647	915	143	0.19	41	856	675
TPH														
NWTPH-Diesel (mg/Kg)	100	670	267	210	15	15	100%	110	538	176	0.66	46	365	170
NWTPH-Heavy Oil (mg/Kg)	1700	7200	4387	4100	15	15	100%	2540	6400	1637	0.37	423	5293	3480
PAHs														
LPAHs														
2-Methylnaphthalene (ug/Kg)	88	260	135	130	14	15	93%	94	192	48	0.36	12	161	108
Acenaphthene (ug/Kg)	25.5	211	76	54	10	15	67%	40	160	55	0.73	14	107	46
Acenaphthylene (ug/Kg)	25.5	130	73	58	9	15	60%	49	130	34	0.47	9	92	54
Anthracene (ug/Kg)	137	1000	358	308	15	15	100%	179	482	205	0.57	53	472	245
Fluorene (ug/Kg)	30.5	330	132	100	13	15	87%	50	266	89	0.67	23	181	83
Naphthalene (ug/Kg)	110	393	206	180	15	15	100%	135	322	83	0.40	21	251	160
Phenanthrene (ug/Kg)	423	2900	1161	814	15	15	100%	550	2204	745	0.64	192	1574	749
Total LPAHs	836	4830	2006	1603	15	15	100%	1106	3505	1110	0.55	286	2621	1392
HPAHs														
Benzo(a)anthracene (ug/Kg)	443	1700	857	750	14	15	93%	505	1128	341	0.40	88	1046	669
Benzo(a)pyrene (ug/Kg)	500	1200	819	805	14	15	93%	502	1160	258	0.31	67	962	677
Benzo(b,k)fluoranthenes (ug/Kg)	287	2100	812	616	14	15	93%	358	1420	509	0.63	131	1094	530
Benzo(g,h,i)perylene (ug/Kg)	880	4200	2177	2000	15	15	100%	1280	3020	832	0.38	215	2637	1716
Chrysene (ug/Kg)	943	2400	1605	1700	15	15	100%	982	2160	491	0.31	127	1876	1333
Dibenz(a,h)anthracene (ug/Kg)	45.5	1700	237	131	12	15	80%	58	268	410	1.73	106	464	10
Fluoranthene (ug/Kg)	1120	3770	1825	1500	15	15	100%	1200	2602	724	0.40	187	2227	1424
Indeno(1,2,3-c,d)pyrene (ug/Kg)	50	950	488	500	13	15	87%	293	704	218	0.45	56	609	367
Pyrene (ug/Kg)	1100	5700	2760	2700	15	15	100%	1320	4180	1340	0.49	346	3502	2018
Total HPAHs	6933	18206	11580	10070	15	15	100%	7873	15928	3697	0.32	954	13627	9533
Total PAHs	7769	20550	13586	12057	15	15	100%	9008	19616	4306	0.32	1112	15971	11202
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/Kg)	3600	41000	18540	16000	15	15	100%	5400	33800	11558	0.62	2984	24940	12140
Butyl benzyl phthalate (ug/Kg)	1290	51000	10847	4050	15	15	100%	1626	29600	14796	1.36	3820	19041	2654
Diethylphthalate (ug/Kg)	10.5	269	76	50	5	15	33%	17	152	71	0.94	18	115	36
Dimethyl phthalate (ug/Kg)	34	390	128	100	11	15	73%	36	296	114	0.89	29	191	65
Di-n-butylphthalate (ug/Kg)	70.5	725	278	197	14	15	93%	118	536	190	0.68	49	383	173
Di-n-Octyl phthalate (ug/Kg)	26	4000	1422	960	13	15	87%	299	3460	1251	0.88	323	2114	729
Total Phthalates	7070	96420	31216	20656	15	15	100%							
Insecticides														
Bifenthrin (ug/Kg)	14	15	15	15	3	3	100%	14	15	1	0.04	0	16	13
PCBs														
Aroclor-1016 (ug/Kg)	1	80	16	5	0	11	0%	2	37	24	1.47	7	32	0
Aroclor-1221 (ug/Kg)	1	80	16	5	0	11	0%	2	37	24	1.47	7	32	0
Aroclor-1232 (ug/Kg)	1	80	16	5	0	11	0%	2	37	24	1.47	7	32	0
Aroclor-1242 (ug/Kg)	0.5	80	16	5	0	11	0%	2	37	24	1.45	7	32	0
Aroclor-1248 (ug/Kg)	0.5	80	17	10	0	11	0%	2	37	24	1.39	7	33	1
Aroclor-1254 (ug/Kg)	0.5	220	69	19	4	11	36%	2	160	79	1.15	24	122	16
Aroclor-1260 (ug/Kg)	0.5	96	22	10	1	11	9%	2	80	33	1.49	10	45	0
TOTAL PCBs	0	220	67	0	4	11	36%							

Table E-20
Summary Statistics for Stormwater Sediment at OF245 MH390 WY2001-WY2017

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
Conventionals														
Total Organic Carbon (mg/Kg)	0.933	14	5	4	17	17	100%	1	8	3	0.77	1	6	3
Total Solids (%)	43.8	81	69	71	17	17	100%	54	80	12	0.17	3	75	63
Total Volatile Solids (%)	3	25	14	13	3	3	100%	5	23	11	0.81	6	42	-14
Nutrients														
Phosphorus, Total (mg/Kg)	587	3290	1622	989	3	3	100%	667	2830	1458	0.90	842	5245	-2001
Metals														
Cadmium (mg/Kg dry)	0.672	1.800	1.404	1.680	5	5	100%	0.843	1.788	0.499	0.355	0.223	2.024	0.785
Copper (mg/Kg dry)	45.2	141	97	104	6	6	100%	58	130	35	0.36	14	134	61
Lead (mg/Kg dry)	8.3	98.4	46.2	41	17	17	100%	19.6	79.2	25.7	0.6	6.2	59.4	33.0
Mercury (mg/Kg dry)	0.0075	0.169	0.057	0.053	16	17	94%	0.023	0.104	0.042	0.735	0.010	0.079	0.036
Zinc (mg/Kg dry)	80.9	657	397	415	17	17	100%	150	618	180	0.45	44	490	304
TPH														
NWTPH-Diesel (mg/Kg)	1.55	2400	427	190	12	17	71%	34	896	588	1.38	143	729	124
NWTPH-Heavy Oil (mg/Kg)	230	10000	3365	3100	17	17	100%	788	6060	2490	0.74	604	4645	2085
PAHs														
LPAHs														
2-Methylnaphthalene (ug/Kg)	8.5	355	61	38	7	17	41%	26	89	79	1.30	19	102	20
Acenaphthene (ug/Kg)	8.5	248	47	31	5	17	29%	13	76	57	1.21	14	77	18
Acenaphthylene (ug/Kg)	7	115	33	28	3	17	18%	11	50	26	0.79	6	47	20
Anthracene (ug/Kg)	7.5	1660	180	50	10	17	59%	9	362	403	2.24	98	387	-27
Fluorene (ug/Kg)	9.5	260	62	35	5	17	29%	12	153	72	1.16	17	99	25
Naphthalene (ug/Kg)	9.5	150	59	50	7	17	41%	23	119	39	0.67	10	79	39
Phenanthrene (ug/Kg)	8.5	1410	294	180	15	17	88%	49	733	359	1.22	87	479	110
Total LPAHs	95	3726	678	343	17	17	100%	177	1329	890	1.31	216	1135	220
HPAHs														
Benzo(a)anthracene (ug/Kg)	20.5	3740	384	110	14	17	82%	35	530	886	2.31	215	839	-72
Benzo(a)pyrene (ug/Kg)	22	2240	268	110	13	17	76%	27	395	526	1.96	127	538	-2
Benzo(b,k)fluoranthenes (ug/Kg)	34	1660	226	110	16	17	94%	54	294	379	1.68	92	421	31
Benzo(g,h,i)perylene (ug/Kg)	49.5	1870	401	233	15	17	88%	60	804	456	1.14	111	636	167
Chrysene (ug/Kg)	49.5	6490	652	180	16	17	94%	71	756	1525	2.34	370	1436	-132
Dibenz(a,h)anthracene (ug/Kg)	8	616	73	45	5	17	29%	12	76	142	1.96	34	146	-1
Fluoranthene (ug/Kg)	49.5	3840	512	220	16	17	94%	87	896	896	1.75	217	973	51
Indeno(1,2,3-c,d)pyrene (ug/Kg)	23.5	608	104	50	9	17	53%	31	171	140	1.34	34	176	32
Pyrene (ug/Kg)	49.5	12100	1184	580	16	17	94%	123	1200	2836	2.40	688	2642	-274
Total HPAHs	420	33164	3804	1821	17	17	100%	581	4623	7699	2.02	1867	7763	-154
Total PAHs	515	36890	4482	2215	17	17	100%	762	5980	8544	1.91	2072	8875	89
Phthalates														
bis(2-Ethylhexyl)phthalate (ug/Kg)	1150	34000	12483	6400	16	17	94%	1426	32360	12839	1.03	3114	19084	5882
Butyl benzyl phthalate (ug/Kg)	2500	160000	30605	15000	17	17	100%	3432	52800	38489	1.26	9335	50394	10816
Diethylphthalate (ug/Kg)	7.5	820	86	35	2	17	12%	17	95	191	2.23	46	184	-13
Dimethyl phthalate (ug/Kg)	4.5	9810	633	50	6	17	35%	13	142	2365	3.74	574	1849	-583
Di-n-butylphthalate (ug/Kg)	49.5	15000	1427	320	15	17	88%	97	1700	3544	2.48	859	3249	-395
Di-n-Octyl phthalate (ug/Kg)	14.5	4250	546	235	11	17	65%	22	1020	1009	1.85	245	1065	27
Total Phthalates	5333	207260	45616	33530	17	17	100%							
Insecticides														
Bifenthrin (ug/Kg)	0.3	7	3	3	2	3	67%	1	6	3	0.98	2	12	-5
PCBs														
Aroclor-1016 (ug/Kg)	1	17	5	5	0	15	0%	2	8	4	0.78	1	7	3
Aroclor-1221 (ug/Kg)	1	17	6	6	0	15	0%	2	10	4	0.66	1	8	4
Aroclor-1232 (ug/Kg)	1	17	5	5	0	15	0%	2	9	4	0.73	1	8	3
Aroclor-1242 (ug/Kg)	0.5	120	13	5	1	15	7%	2	14	30	2.32	8	29	-4
Aroclor-1248 (ug/Kg)	0.5	17	6	5	0	15	0%	2	11	4	0.74	1	8	4
Aroclor-1254 (ug/Kg)	0.5	140	26	10	6	15	40%	2	68	38	1.48	10	47	5
Aroclor-1260 (ug/Kg)	0.5	180	17	5	1	15	7%	2	14	45	2.61	12	42	-8
TOTAL PCBs	0	440	43	0	6	15	40%							