

SW-01													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013	
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	18	26	21	32	6.8	7.2	7.1	6.4	---	14	6.1	8	31
Total Suspended Solids (mg/L)	11	12	8	4.0 U	23	26	38	77	---	87	17	23	24
Total Dissolved Solids (mg/L)	890	850	750	860	820	770	760	640	---	150	740	580	550
Chloride (mg/L)	140	210	170	190	190	170	160	140	---	19	79	80	94
Chemical Oxygen Demand (mg/L)	20 U	130	20 U	15 J	20 U	20 U	20 U	NA	---	30 UB	20 U	42	15 J
Sodium (µg/L)	180,000	160,000	130,000	150,000	130,000	120,000	120,000	97,000	---	16,000	120,000	83,000	81,000
Dissolved Oxygen (Field Param)	4.57	3.22	5.17	2.31	3.21	3.05	2.88	2.85	---	Pending	4.06	1.15	1.93
pH (Field Param)	6.22	7.21	6.49	5.99	6.25	5.45	5.64	6.3	---	Pending	6.46	5.71	6.33

SW-03													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/5/2013	6/4/2013	6/4/2013	6/5/2013
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	8.4	2.2 J	2.8	2.6	2.8	2	1.6	0.10 U	0.57	6.0	1.2	0.15	0.28
Total Suspended Solids (mg/L)	2.0 J	4.0 U	4.0 U	4.0 U	4	3.0 J	5.0	10	4.0 U	8	4.0 U	4.0 U	4.0 U
Total Dissolved Solids (mg/L)	470	380	390	400	350	380	370	370	400	160	240	250	300
Chloride (mg/L)	110	120	120	120	120	120	120	120	120	30	56	70	83
Chemical Oxygen Demand (mg/L)	22	9.5 J	20 U	20 U	20	12 J	17 J	27	9.5 J	30 UB	35	7.2 J	9.9 J
Sodium (µg/L)	73,000	63,000	64,000	65,000	60,000	58,000	63,000	63,000	57,000	18,000	37,000	43,000	50,000
Dissolved Oxygen (Field Param)	5.91	5.28	5.51	4.54	3.75	4.87	5.3	4.36	4.74	Pending	5.9	5.87	5.86
pH (Field Param)	6.79	7.06	6.89	7.12	7.06	6.91	7.12	7.1	7.04	Pending	6.97	7.06	7.18

SW-05													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	2.1	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total Suspended Solids (mg/L)	4.0 U	10	4.0 U	3.0 J	25	4.0 U	4.0 U	6	4.0 U	33	4.0 U	4.0 U	5
Total Dissolved Solids (mg/L)	280	210	210	210	210	220	220	230	250	110	210	190	230
Chloride (mg/L)	75	59	61	60	63	62	69	66	66	27	51	55	59
Chemical Oxygen Demand (mg/L)	6.9 J	20 U	20 U	20 U	20 U	6.9 J	20 U	20 U	20 U	20 UB	20 U	20 U	20 U
Sodium (µg/L)	41,000	26,000	26,000	27,000	27,000	28,000	30,000	28,000	27,000	15,000	27,000	26,000	27,000
Dissolved Oxygen (Field Param)	7.22	6.59	NA	6.23	6.41	9.85	8.12	6.28	7.22	6.32	6.09	6.19	6.88
pH (Field Param)	7.39	7.42	NA	7.47	7.69	7.44	7.43	7.26	7.39	7.32	7.15	7.38	7.25

SW-07													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	---	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total Suspended Solids (mg/L)	---	47	6	69	23	15	22	33	98	26	13	10	8
Total Dissolved Solids (mg/L)	---	410	250	350	250	250	330	250	250	92	150	190	200
Chloride (mg/L)	---	150	75	120	110	83	120	67	67	20	32	44	55
Chemical Oxygen Demand (mg/L)	---	17	6.9 J	40	22	17 J	22	20 U	6.9 J	20 UB	17 J	13 J	15 J
Sodium (µg/L)	---	69,000	37,000	68,000	54,000	42,000	61,000	30,000	30,000	12,000	19,000	25,000	29,000
Dissolved Oxygen (Field Param)	---	10.67	5.82	9.25	8.25	7.77	11.05	7.35	6.73	5.88	3.78	3.98	7.8
pH (Field Param)	---	9.01	6.98	8.76	8.91	7.51	8.7	7.25	7.35	7.23	6.84	7.27	7.74

SW-04													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total Suspended Solids (mg/L)	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8	4.0 U	18	4.0 U	4.0 U	4.0 U
Total Dissolved Solids (mg/L)	230	210	220	210	210	200	190	200	240	110	190	210	200
Chloride (mg/L)	66	58	58	60	60	60	62	62	62	27	50	53	56
Chemical Oxygen Demand (mg/L)	25	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 UB	22	20 U	20 U
Sodium (µg/L)	29,000	25,000	26,000	27,000	25,000	26,000	27,000	27,000	26,000	14,000	26,000	26,000	27,000
Dissolved Oxygen (Field Param)	7.74	7.05	NA	6.36	6.64	9.47	7.84	8	7.34	7.23	6.86	6.72	5.97
pH (Field Param)	7.32	7.57	NA	7.83	7.34	7.37	7.59	7.11	7.64	7.25	7.46	7.55	7.26

SW-02													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/5/2013	6/4/2013	6/4/2013	6/5/2013
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total Suspended Solids (mg/L)	4.0 U	4.0 U	34	2.0 J	4	4.0 U	4.0 U	4.0 U	4.0 U	3.0 J	4.0 U	4.0 U	4.0 U
Total Dissolved Solids (mg/L)	340	390	380	380	350	380	370	360	400	120	240	240	290
Chloride (mg/L)	120	120	120	120	120	120	120	120	120	30	56	69	83
Chemical Oxygen Demand (mg/L)	12 J	87	20 U	17 J	9.5 J	6.9 J	12 J	NA	6.9 J	22 UB	22	21	9.9 J
Sodium (µg/L)	50,000	62,000	61,000	63,000	59,000	62,000	60,000	59,000	58,000	19,000	35,000	42,000	50,000
Dissolved Oxygen (Field Param)	5.27	5.48	5.61	3.83	3.64	5.04	5.58	4.2	5	Pending	5.8	5.68	5.98
pH (Field Param)	6.91	6.88	6.48	7.09	6.95	6.8	7.05	7.13	6.48	Pending	7.1	7.1	7.18

SW-06													
Date	5/29/2013	5/30/2013	5/30/2013	5/31/2013	5/31/2013	6/1/2013	6/1/2013	6/2/2013	6/2/2013	6/3/2013	6/4/2013	6/4/2013	6/5/2013
Sampling Round	1	2	3	4	5	6	7	8	9	10	11	12	13
Terephthalic acid (mg/L)	4.8	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total Suspended Solids (mg/L)	27 J	23	4.0 U	3.0 J	4	11	4	44	8	21	17	17	5
Total Dissolved Solids (mg/L)	280	250	220	220	240	200	200	250	240	51	180	200	220
Chloride (mg/L)	75	68	62	63	62	63	65	67	66	20	41	52	58
Chemical Oxygen Demand (mg/L)	30	38	20 U	20 U	20 U	33	25	6.9 J	17 J	20 UB	12 J	20 U	20 U
Sodium (µg/L)	43,000	31,000	29,000	28,000	27,000	28,000	30,000	29,000	30,000	12,000	24,000	26,000	30,000
Dissolved Oxygen (Field Param)	NA	5.14	5.68	5.84	5.79	7.77	7.8	5.41	5.67	6.22	3.94	5.09	5.94
pH (Field Param)	NA	7.2	6.91	7.34	7.38	7.22	7.35	7.08	7.34	7.22	7.03	7.57	7.27

LEGEND

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APPROXIMATE SURFACE WATER SAMPLE LOCATION

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INCIDENT LOCATION

RIVER FEATURES

STREAM AND FLOW DIRECTION

CULVERT DRAIN CHANNEL

SW-01	
Date	5/29/2013
Sampling Round	1
Terephthalic acid (mg/L)	18
Total Suspended Solids (mg/L)	11
Total Dissolved Solids (mg/L)	890
Chloride (mg/L)	140
Chemical Oxygen Demand (mg/L)	20 U
Sodium (µg/L)	180,000
Dissolved Oxygen (Field Param)	4.57
pH (Field Param)	6.22

SAMPLE LOCATION

SAMPLE DATE

SAMPLE ROUND EVENT NUMBER

ANALYTE AND REPORTED VALUE

NOTES:

U NOT DETECTED AT OR ABOVE LABORATORY LIMITS

--- SAMPLE NOT TAKEN

J ESTIMATED VALUE

SAMPLING ORDER IS SPECIFIED BY ROUND NUMBER AND WERE COLLECTED DAILY ON APPROXIMATE 12 HOUR INTERVALS

FIELD PARAMETER VALUES INDICATED AS (Field Param)

SW-01, SW-02, AND SW-03 WERE RESAMPLED FOR ROUND 2 FIELD PARAMETERS TO VERIFY THEIR VALUES

RESULTS SHOWN ARE LEVEL II VALIDATION

06001,200

Feet

MAP DATE: 6/10/2013

DRAFT

Topographic & Bing Aerial Base Image Source: ArcGIS

Online Services, Access date: 05/29/2013

ES

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ROSEDALE DERAILMENT

BALTIMORE, MARYLAND

SURFACE WATER

SAMPLE RESULTS

ARCADIS

FIGURE

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