

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-1	COD-SW-2	COD-SW-3	COD-SW-4	COD-SW-5	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	5/7/13 10:33	5/7/13 11:16	5/7/13 11:31	5/7/13 11:45	5/7/13 12:57	8/22/13 8:38	8/22/13 16:04	9/26/13 7:40	11/21/13 7:40	1/23/14 14:24	2/20/14 12:43	3/17/14 12:28	4/21/14 14:24	5/6/14 12:43	5/20/14 9:07	6/2/14 12:14	6/26/14 11:16	6/30/14 12:00	7/14/14 14:09
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS						11000B	9500B	11000	13000B	10000B	7300B	7500B	8500B	7600B	9200B	9800	6600B	11000	9700B
ALKALINITY, CARBONATE		NS	NS	NS						7800	8900	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	7700
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS						12000B	10000B	11000	13000B	10000B	7300B	7500B	8500B	7600B	9200B	9900B	6600B	11000	10000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS										45000	31000	33000B	37000	28000B	38000B	38000B	26000B	47000B	43000
Magnesium		NS	NS	NS										8900	9800	8600	9500	7700	8800	8400	7400	11000	10000
Potassium		NS	NS	NS										2400	3800	2700	2900	2500B	2400	2100	4300B	2500B	2900
Sodium		NS	NS	NS	53000	47000	47000	73000	53000				51000B	43000B	44000	41000B	29000	20000B	27000	27000	19000B	30000	30000
Br-, Cl, NO3, SO4																							
Bromide		NS	NS	NS	500U	500U	500U	1000	500U														
Chloride	250,000 Max.	NS	NS	NS	64000	76000	51000	110000	52000	49000	46000	49000	60000	94000B	81000	86000	62000B	44000	57000	78000B	32000	60000	67000B
Nitrate As N	10,000 Max.	NS	NS	NS						2400J	2500	2100	3100	4700	3700	4400	4000	3500B	3700B	4300	3200	3800H B	3100
Sulfate	250,000 Max.	NS	NS	NS						31000	42000	69000	57000	17000	25000	25000	23000	18000	17000B	19000B	19000	15000	18000B

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
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**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6	COD-SW-6
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	8/8/14 10:04	8/25/14 11:31	9/8/14 10:48	9/22/14 15:07	10/6/14 12:28	10/20/14 12:28	11/3/14 11:02	11/20/14 10:48	12/3/14 10:48	12/22/14 11:02	1/13/15 13:40	3/10/15 11:31	3/24/15 10:33	4/21/15 10:19	5/20/15 10:48	6/15/15 10:33	7/15/15 10:48	8/14/15 10:33
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	10000B	10000B	10000B	12000B	12000B	13000B	14000B	15000B	9500B	11000B	9100B	9500B	11000B	13000B	14000B	13000B	7600B	15000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	10000B	10000B	10000B	12000B	12000B	13000B	14000B	15000B	9500B	12000B	9100B	9500B	11000B	13000B	14000B	14000B	7600B	15000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	4000B	3700	3500	4000	3600B	4700	4400B	4500B	3700	4900B	4300B	3400B	5400	5600	4800B	5600B	3100B	4700B
Magnesium		NS	NS	NS	8900	8800	7800	9800	6900	9300B	8700	9000B	6700B	9300	8500B	6800	10000B	9600	8400	9600	6300	11000B
Potassium		NS	NS	NS	6400	5800B	6100	6600B	6500	5800	6900	7500	4600B	4500B	3500B	3500	2900	3100	3100	3200	2800B	5000B
Sodium		NS	NS	NS	52000B	43000B	43000	52000B	41000	46000B	50000B	54000B	39000B	47000B	95000B	87000	59000B	49000	40000	41000	21000	58000B
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	59000	61000B	59000B	70000B	60000B	67000	73000B	73000B	81000	87000B	190000	160000	140000B	110000	95000B	110000B	46000	89000
Nitrate As N	10,000 Max.	NS	NS	NS	2300	2500	1800	1900	1700B	2000	1800J	2400	2200	3200	2600B	2100	3400B	2000	1700B	2300B	1800B	2100
Sulfate	250,000 Max.	NS	NS	NS	52000	49000B	50000B	68000B	61000B	52000	55000B	53000	14000	47000	19000	11000	19000	16000	17000	19000	11000	34000

Notes:

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**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	8/22/13 8:38	8/22/13 16:19	9/26/13 7:55	11/21/13 7:55	1/23/14 14:09	2/20/14 9:50	3/17/14 13:26	4/22/14 9:07	5/6/14 13:12	5/20/14 10:04	6/2/14 13:12	6/26/14 11:31	6/30/14 12:57	7/15/14 12:57	8/8/14 11:16	8/25/14 12:14	9/8/14 12:43	9/22/14 9:07	10/6/14 13:26
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	11000B	10000B	11000	15000B	9200B	9100B	7300B	8300	7100B	7700B	8400	5900B	9800	6800B	11000B	9800B	11000B	13000B	11000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	820J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	7300	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	11000B	10000B	11000	15000B	9200B	9100B	7300B	8300	7100B	7700B	8400B	5900B	9800	7500B	11000B	9800B	11000B	13000B	11000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS					3600	3200	2900B	3300	2500B	2900B	2900B	2400B	3600B	2600	4000B	3500	4100B	4100	3300B
Magnesium		NS	NS	NS					840	930	870	1100	780	830	780	750	1100	760	1100	860	1200	1000	660
Potassium		NS	NS	NS					480	370	320	350	270B	260	350	510B	490B	410	620	640B	720B	800B	760
Sodium		NS	NS	NS				5500B	3300B	3900	2800B	2700B	1700B	1500	2500	2000B	3500	2600	5200B	4500B	5000	7900B	4500
Br-, Cl, NO3, SO4																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	4400	4200	5000	6400	5200B	7600	4900	4800B	3100	3100	4600B	2800	5400B	3700B	6400	5900B	6100B	9100B	5900B
Nitrate As N	10,000 Max.	NS	NS	NS	2500J	2500	2200	2700	4700	3800	4600	3700	3700B	3700B	3900	3600	3500	3300	2200	2500	1800	1700	1600B
Sulfate	250,000 Max.	NS	NS	NS	47000	47000	64000	63000	56000	27000	35000	28000	22000	18000B	34000B	26000	48000	31000B	54000	57000B	52000B	91000B	71000B

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**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-7	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	10/20/14 13:40	11/3/14 12:14	11/20/14 12:00	12/3/14 12:00	12/22/14 12:28	1/13/15 11:45	3/10/15 12:28	3/24/15 12:00	4/21/15 11:16	5/20/15 13:40	6/15/15 11:31	7/15/15 11:31	8/14/15 11:16	8/22/13 9:21	8/22/13 15:21	9/26/13 8:52	11/21/13 9:07	1/23/14 9:36
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	12000B	15000B	13000B	11000B	12000B	9500B	6400B	11000B	12000B	10000B	11000B	11000B	14000B	11000B	10400	12000	13000B	8200B
ALKALINITY, CARBONATE		NS	NS	NS	400J	500U	500U	500U	400J	500U	500U	500U	500U	500U	500U	500U	500U	500U	314J	500U	500U	500U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	13000B	15000B	13000B	11000B	13000B	9500B	6400B	11000B	12000B	10000B	11000B	11000B	14000B	11000B	10700	12000	13000B	8200B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	4500	4000B	4100B	4200	4800B	3300B	2100B	4500	4400	3900B	4000B	3600B	3800B					3400
Magnesium		NS	NS	NS	8900B	840	900B	940B	950	810B	600	1100B	1100	960	870B	1000	1000B					7300
Potassium		NS	NS	NS	7100	8700	10000	5700B	6600B	6500B	6700	4300	4800	5600	5400	4300B	8300B					4800
Sodium		NS	NS	NS	54000B	58000B	68000B	41000B	57000B	56000B	29000	45000B	39000	39000	27000B	35000	67000B				58000B	34000B
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	61000	69000	73000B	65000	89000	88000	55000	81000B	83000	65000B	43000B	59000	69000	46000	46000	54000	60000	50000
Nitrate As N	10,000 Max.	NS	NS	NS	1900	1800B	2300	2600	3200B	3300B	2000	3600B	2500	2500B	2900B	2700B	2000	2500J	2500	2100	2800	4800
Sulfate	250,000 Max.	NS	NS	NS	69000	68000	77000	46000	73000	42000	13000	34000	33000	42000	25000	38000	63000	46000	45000	67000	62000	52000

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**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	2/20/14 10:19	3/17/14 10:04	4/21/14 13:26	5/6/14 11:45	5/19/14 14:24	6/2/14 10:19	6/26/14 9:36	6/30/14 10:33	7/14/14 12:43	8/8/14 8:24	8/25/14 8:52	9/8/14 9:36	9/22/14 12:43	10/7/14 11:45	10/21/14 8:24	11/3/14 9:07	11/20/14 8:38	12/3/14 8:38	12/22/14 9:07
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	71000B	65000B	76000B	67000B	68000B	81000	57000B	95000	96000B	110000B	94000B	110000B	120000B	120000B	120000B	120000B	160000B	100000B	110000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	71000B	65000B	76000B	67000B	68000B	81000B	57000B	95000	96000B	110000B	94000B	110000B	120000B	120000B	120000B	120000B	160000B	100000B	110000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS	28000	27000B	30000	24000B	27000B	29000B	22000B	35000B	37000	40000B	33000	41000B	42000	42000B	55000	41000B	41000B	36000	47000B
Magnesium		NS	NS	NS	7500	7600	8700	7100	7200	7200	7000	9900	9500	9400	8100	9700	10000	9500	12000	8300	8800B	6800B	9300
Potassium		NS	NS	NS	3600	3000	3400	2700B	2600	3500	4000B	4800B	5300	6200	5600B	7800B	7800B	8500	7900B	8000	9000	5600B	6700B
Sodium		NS	NS	NS	48000	27000B	24000	18000B	15000	25000	17000B	34000	38000	51000B	40000B	51000	70000B	56000B	87000B	54000B	59000B	39000B	58000B
Br-, Cl, NO3, SO4,																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	95000	81000	40000	30000	28000	46000B	28000	53000B	53000B	58000	56000B	58000B	81000B	69000B	67000	68000	68000B	61000	88000
Nitrate As N	10,000 Max.	NS	NS	NS	3900	4700	3600	3600B	3700B	4000	3600	3400	3000	2300	2500	1800	1700	1600	1900	1800J	2300	2400	3200B
Sulfate	250,000 Max.	NS	NS	NS	25000	33000	24000	20000	16000B	31000B	20000	45000	47000B	51000	50000B	55000B	85000B	74000B	73000	64000	63000	42000	73000

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**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-8	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	1/13/15 9:21	3/10/15 8:52	3/24/15 9:07	4/21/15 8:52	5/20/15 9:07	6/15/15 8:38	7/15/15 8:52	8/14/15 8:52	8/22/13 9:36	8/22/13 15:21	9/26/13 9:07	11/21/13 9:07	1/27/14 12:00	2/20/14 12:14	3/17/14 14:38	4/22/14 10:04	5/7/14 9:50	5/20/14 10:48	6/6/14 12:28
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	95000B	68000B	110000B	84000B	99000B	110000B	86000B	130000B	120000B	120000B	130000	150000B	120000B	110000B	100000B	120000	110000B	120000B	98000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	660J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	12000
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	95000B	68000B	110000B	84000B	99000B	110000B	86000B	130000B	120000B	120000B	130000	150000B	120000B	110000B	100000B	120000	110000B	120000B	110000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS	34000B	20000B	38000	39000	34000B	40000B	30000B	41000B					40000	44000	38000B	46000	44000	42000B	41000B
Magnesium		NS	NS	NS	7600B	5500	8500B	7800	7000	7900	6900	11000B					8700	11000	10000	13000	11000	10000	9300B
Potassium		NS	NS	NS	7700B	6000	4300	5200	5800	4800	3600B	8100B					6500	5900	4600	5400	5400	5200	8200B
Sodium		NS	NS	NS	69000B	33000	42000B	36000	35000	26000	27000	64000B				63000B	33000	72000	37000B	39000B	35000B	29000	33000B
Br-, Cl, NO3, SO4,																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	100000	66000	71000B	60000	53000B	51000B	45000	71000	53000	61000	74000	74000	66000	140000	47000	73000B	60000	51000	80000B
Nitrate As N	10,000 Max.	NS	NS	NS	3100B	2100	3600B	2300	2600B	2900H B	2200B	2000	2600H	2800	2500	3300	4100	3500	4600	4200	3000B	3400B	4700
Sulfate	250,000 Max.	NS	NS	NS	53000	12000	30000	27000	36000	26000	26000	56000	48000	47000	70000	64000	30000	29000	35000	31000	26000	23000B	34000B

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Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-9
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	6/26/14 13:55	6/30/14 14:52	7/15/14 12:28	8/8/14 12:00	8/25/14 12:57	9/8/14 13:26	9/22/14 9:50	10/6/14 14:52	10/21/14 9:07	11/3/14 12:43	11/20/14 12:14	12/3/14 12:14	12/22/14 12:57	1/13/15 12:14	3/10/15 12:43	3/24/15 12:14	4/21/15 12:00	5/20/15 11:45
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	95000B	130000	110000B	170000B	130000B	140000B	160000B	160000B	150000B	160000B	140000B	140000B	150000B	130000B	91000B	140000B	140000B	170000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	4000J	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	95000B	130000	110000B	170000B	130000B	140000B	160000B	160000B	150000B	160000B	140000B	140000B	150000B	130000B	91000B	140000B	140000B	170000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	40000B	51000B	39000	60000B	51000	60000B	52000	51000B	74000	50000B	56000B	54000	56000B	43000B	32000B	58000	56000	54000B
Magnesium		NS	NS	NS	9600	13000	10000	11000	10000	12000	11000	8800	15000	9300	11000B	8800B	11000	9400B	7600	12000B	11000	10000
Potassium		NS	NS	NS	6900B	8300B	6900	18000	13000B	13000B	11000B	11000	10000B	11000	13000	8200B	8900B	8600B	7000	7900	8000	9700
Sodium		NS	NS	NS	31000B	40000	38000	71000B	54000B	60000	63000B	44000	82000B	53000B	68000B	50000B	52000B	72000B	51000	56000B	51000	48000
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	46000	68000B	53000B	97000	91000B	93000B	89000B	82000B	85000	82000	110000B	93000	93000	120000	86000	100000B	100000	93000B
Nitrate As N	10,000 Max.	NS	NS	NS	3900	3200	3000	3600	4600	6000	3800	5500B	3400	3400B	3500	3400	4200B	4200B	2400	4300B	2600	3400B
Sulfate	250,000 Max.	NS	NS	NS	29000	45000	34000B	43000	51000B	50000B	62000B	45000B	52000	49000	50000	43000	48000	41000	17000	31000	33000	40000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-9	COD-SW-9	COD-SW-9	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	6/15/15 12:28	7/15/15 12:14	8/14/15 12:14	8/22/13 10:48	1/23/14 11:02	2/20/14 11:16	3/17/14 10:48	4/21/14 13:55	5/6/14 12:14	5/19/14 15:21	6/2/14 11:02	6/26/14 11:16	6/30/14 11:02	7/14/14 13:26	8/8/14 9:07	12/3/14 9:50	1/13/15 9:50	3/10/15 10:04	3/24/15 9:36
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	130000B	140000B	190000B	200000B	88000B	91000B	85000B	130000B	95000B	120000B	90000	130000B	170000	180000B	210000B	120000B	99000B	180000B	190000B
ALKALINITY, CARBONATE		NS	NS	NS	7900	5000U	5000U	8600	5000U	5000U	5000U	4200J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	140000B	140000B	190000B	210000B	88000B	91000B	85000B	130000B	95000B	120000B	90000B	130000B	170000	180000B	210000B	120000B	99000B	180000B	190000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS	53000B	50000B	72000B		33000	40000	32000B	42000	35000	44000B	30000B	50000B	74000B	71000	88000B	45000	45000B	65000B	83000
Magnesium		NS	NS	NS	9600	11000	14000B		6000	8000	7000	10000	8200	9500	5600	11000	19000	17000	20000	5900B	6800B	11000	14000B
Potassium		NS	NS	NS	9700	8000B	17000B		3200	4000	3300	5100	3900B	5500	2700	6000B	9400B	8400	11000	5100B	4600B	6600	8300
Sodium		NS	NS	NS	36000	49000	84000B		27000B	140000	31000B	29000	20000B	27000	14000	31000B	43000	41000	63000B	44000B	100000B	100000	54000B
Br-, Cl, NO3, SO4,																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	78000B	84000	130000	140000	66000	300000	67000	97000B	39000	59000	33000B	54000	130000B	120000B	140000	93000	210000	190000	130000B
Nitrate As N	10,000 Max.	NS	NS	NS	5100B	4000B	2600	3200H	3200	1700	2700	3400	2200B	2600B	2100	2100	3800	2900	3600	910	1200B	2300	3100B
Sulfate	250,000 Max.	NS	NS	NS	31000	38000	42000	27000	11000	16000	13000	20000	11000	15000B	8600B	13000	26000	24000B	27000	23000	15000	20000	27000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-10	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	4/21/15 9:07	5/20/15 9:50	6/15/15 9:21	7/15/15 9:36	8/14/15 9:36	8/22/13 11:45	9/26/13 8:52	11/21/13 11:45	1/24/14 9:21	2/20/14 11:45	3/17/14 10:04	4/22/14 10:33	5/6/14 15:07	5/20/14 11:16	6/2/14 14:24	6/26/14 13:26	6/30/14 14:38	7/15/14 14:38	8/8/14 12:43
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	22000B	19000B	22000B	23000B	26000B	20000B	21000	22000B	22000B	18000B	18000B	19000	19000B	19000B	18000	17000B	20000	20000B	20000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	4000J	5000U	5000U	8700	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5800	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	22000B	19000B	23000B	23000B	26000B	21000B	21000	22000B	22000B	18000B	18000B	19000	19000B	19000B	19000B	17000B	20000	20000B	20000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS	9600	8300B	10000B	9000B	10000B				7400	6600	6600B	6800	6800	6700B	6200B	6400B	6400B	7500	7000B
Magnesium		NS	NS	NS	1400	1300	1700B	1200	1900B				1500	1700	1700	1900	1900	1600	1500	1700	1700	2000	1700
Potassium		NS	NS	NS	8200	7700	8900	7100B	9400B				2000	2300	2100	1900	2000B	1900	1800	2500B	1800B	2200	2100
Sodium		NS	NS	NS	54000	45000	50000B	35000	54000B			19000B	24000B	73000	47000B	27000B	26000B	25000	23000	22000B	22000	24000B	27000B
Br-, Cl, NO3, SO4																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	140000	120000B	130000B	100000	130000	39000	38000	37000	65000B	170000	110000	69000B	55000	57000	65000B	37000	41000	57000B	53000
Nitrate As N	10,000 Max.	NS	NS	NS	2800	2300B	2800H B	2500B	2700	3900	3400	4400	5100	3700	4900	4600	4600B	4600B	5000	4000	4900J	4600	3600
Sulfate	250,000 Max.	NS	NS	NS	29000	28000	31000	29000	33000	19000	19000	18000	19000	20000	22000	20000	17000	20000B	21000B	15000	16000	19000B	17000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-11	COD-SW-12
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	8/25/14 13:26	9/8/14 13:12	9/22/14 10:33	10/6/14 15:21	10/20/14 15:07	11/3/14 13:26	11/20/14 12:57	12/3/14 12:57	12/22/14 13:40	1/13/15 12:43	3/10/15 13:12	3/24/15 13:12	4/21/15 11:45	5/20/15 12:14	6/15/15 13:12	7/15/15 12:43	8/14/15 12:43	8/22/13 12:00
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	170000B	210000B	200000B	240000B	200000B	210000B	200000B	190000B	220000B	170000B	160000B	190000B	210000B	190000B	210000B	220000B	210000B	170000B
ALKALINITY, CARBONATE		NS	NS	NS	16000	8000	5000U	5000U	8000	3900J	5000U	5000U	4000J	7900	5000U	5000U	5000U	5000U	16000	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	180000B	220000B	200000B	240000B	210000B	210000B	200000B	190000B	220000B	180000B	160000B	190000B	210000B	190000B	230000B	220000B	210000B	170000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	65000	72000B	55000	65000B	70000	68000B	72000B	63000	70000B	64000B	65000B	75000	75000	69000B	83000B	71000B	73000B	
Magnesium		NS	NS	NS	17000	19000	15000	14000	16000B	15000	16000B	11000B	16000	14000B	15000	17000B	15000	15000	17000B	16000	19000B	
Potassium		NS	NS	NS	2000B	2200B	2400B	2000	2300	2100	2200	2500B	1900B	2200B	2700	2200	2100	2200	2300	2100B	2500B	
Sodium		NS	NS	NS	25000B	26000	21000B	20000	25000B	23000B	24000B	31000B	26000B	36000B	60000	40000B	36000	31000	29000B	28000	33000B	
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	61000B	60000B	46000B	57000B	56000	55000	54000B	70000	63000	81000	120000	88000B	90000	75000B	73000B	68000	69000	110000
Nitrate As N	10,000 Max.	NS	NS	NS	4000	3800	2500	3600B	3200	3100B	3300	2300	3500B	3200B	3300	4100B	3500	4200B	4400B	4100B	4100	2900
Sulfate	250,000 Max.	NS	NS	NS	21000B	21000B	17000B	24000B	21000	20000	22000	22000	23000	21000	16000	20000	21000	21000	19000	19000	21000	44000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	1/24/14 9:36	2/20/14 11:31	3/17/14 15:21	4/22/14 10:33	5/6/14 15:21	5/20/14 11:31	6/6/14 12:00	6/26/14 13:12	6/30/14 14:24	7/15/14 12:00	8/8/14 12:43	8/25/14 13:40	9/8/14 14:09	9/22/14 11:45	10/6/14 13:40	10/20/14 14:52	11/3/14 13:40	11/20/14 13:12
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	20000B	16000B	14000B	16000	20000B	19000B	14000B	17000B	18000	17000B	19000B	15000B	16000B	16000B	17000B	16000B	16000B	15000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	3200	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	20000B	16000B	14000B	16000	20000B	19000B	17000B	17000B	18000	17000B	19000B	16000B	16000B	16000B	17000B	16000B	16000B	15000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	6500	6600	5300B	6600	7900	6600B	6000B	7700B	6300B	6000	6900B	5800	6400B	5500	5300B	6100	5500B	5700B
Magnesium		NS	NS	NS	1100	1300	1300	1400	1600	1300	1100B	1200	1300	1500	1100	1000	1100	1100	770	930B	880	960B
Potassium		NS	NS	NS	1800	1300	990	1100	1300B	1400	1900B	1500B	1500B	1300	2600	1700B	1700B	1500B	1300	1400	1600	1900
Sodium		NS	NS	NS	8500B	15000	6100B	7000B	6300B	6600	6100B	6200B	4800	6300B	8800B	6200B	6700	6300B	4700	5700B	5700B	8300B
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	15000B	31000	13000	15000B	11000	11000	14000B	9400	6700	9700B	12000	11000B	11000B	10000B	9300B	10000	9400	14000B
Nitrate As N	10,000 Max.	NS	NS	NS	3000	2200	4800	5500	3000B	2800B	6000	4000	2700H B	2800	4200	5900	7600	6500	7300B	5400	4200B	4200
Sulfate	250,000 Max.	NS	NS	NS	42000	41000	38000	45000	34000	42000B	49000B	37000	41000	52000B	42000	51000B	53000B	49000B	44000B	44000	39000	50000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-12	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	12/3/14 13:12	12/22/14 14:09	1/13/15 12:57	3/10/15 13:40	3/24/15 13:26	4/21/15 12:43	5/20/15 12:28	6/15/15 13:26	7/15/15 12:57	8/14/15 12:57	8/22/13 10:19	1/23/14 10:33	2/20/14 10:48	3/17/14 10:33	4/21/14 13:40	5/6/14 12:00	5/19/14 14:52	6/2/14 10:48
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	170000B	170000B	160000B	160000B	180000B	150000B	160000B	150000B	190000B	200000B	130000B	86000B	73000B	68000B	79000B	70000B	72000B	84000
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	170000B	170000B	160000B	160000B	180000B	150000B	160000B	160000B	190000B	200000B	130000B	86000B	73000B	68000B	79000B	70000B	72000B	84000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	64000	53000B	53000B	63000B	69000	66000	65000B	72000B	67000B	76000B		34000	28000	26000B	31000	29000	31000B	30000B
Magnesium		NS	NS	NS	8200B	9200	9400B	11000	12000B	9700	10000	12000B	11000	12000B		7300	7400	7100	8800	8400	8000	7200
Potassium		NS	NS	NS	16000B	13000B	15000B	11000	16000	14000	17000	18000	16000B	22000B		4600	3500	2800	3400	3000B	2800	3400
Sodium		NS	NS	NS	79000B	61000B	120000B	130000	84000B	75000	64000	56000B	74000	96000B		32000B	50000	25000B	24000	21000B	14000	25000
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	140000	100000	230000	240000	160000B	150000	120000B	110000	140000	150000	63000	52000	96000	48000	41000	32000	30000	42000
Nitrate As N	10,000 Max.	NS	NS	NS	4100	4800B	7200B	3500	5600B	2300	2900B	7500	6300B	2300	2500J	4700	3600	4600	3500	3600B	3700B	3600
Sulfate	250,000 Max.	NS	NS	NS	47000	43000	42000	37000	37000	39000	42000	40000	43000	48000	38000	50000	23000	32000	23000	20000	17000B	25000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13	COD-SW-13
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	6/26/14 9:50	6/30/14 10:33	7/14/14 13:12	8/8/14 8:52	8/25/14 9:21	9/8/14 10:04	9/22/14 13:26	10/7/14 12:14	10/20/14 9:50	11/3/14 9:21	11/20/14 9:36	12/3/14 9:36	12/22/14 9:36	1/13/15 9:50	3/10/15 10:19	3/24/15 9:36	4/21/15 9:21	5/20/15 9:36	6/15/15 9:21
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	58000B	100000	100000B	120000B	100000B	120000B	140000B	130000B	140000B	150000B	170000B	110000B	130000B	97000B	54000B	120000B	110000B	83000B	110000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	58000B	100000	100000B	120000B	100000B	120000B	140000B	130000B	140000B	150000B	170000B	110000B	130000B	97000B	54000B	120000B	110000B	83000B	110000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS	25000B	35000B	40000	45000B	36000	43000B	46000	41000B	46000	44000B	47000B	37000	47000B	35000B	21000B	55000	42000	35000B	47000B
Magnesium		NS	NS	NS	7900	9500	9900	10000	8300	10000	11000	9000	8900B	8600	9400B	6600B	9100	7700B	5300	11000B	8100	7100	8700B
Potassium		NS	NS	NS	4800B	4500B	5500	6600	5500B	7600B	7200B	7600	6000	7500	9300	5500B	6200B	7700B	5800	5400	5200	5600	5500
Sodium		NS	NS	NS	18000B	32000	39000	52000B	39000B	51000	69000B	49000B	47000B	52000B	61000B	38000B	55000B	70000B	35000	42000B	37000	35000	28000B
Br-, Cl, NO3, SO4																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	28000	55000B	53000B	63000	57000B	59000B	84000B	69000B	64000	49000B	71000B	63000	85000	110000	70000	77000B	68000	50000B	55000
Nitrate As N	10,000 Max.	NS	NS	NS	3700	3400H	2900	2300	2400	1800	1600	1600	1800	920J	2300	2400	3000B	3200B	2000	3500B	2400	2300B	2800H
Sulfate	250,000 Max.	NS	NS	NS	19000	44000	43000B	49000	48000B	53000B	77000B	70000B	58000	10000B	64000	43000	69000	54000	12000	30000	28000	33000	25000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-13	COD-SW-13	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15
Depth (ft.)	Criteria for	Health	Continuous	Maximum																			
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	7/15/15 9:21	8/14/15 9:21	8/22/13 12:28	9/26/13 9:50	11/21/13 11:45	1/24/14 9:50	2/20/14 10:48	3/17/14 13:55	4/22/14 9:21	5/7/14 9:07	5/20/14 11:45	6/2/14 13:40	6/26/14 12:57	6/30/14 13:55	7/15/14 13:55	8/8/14 13:12	8/25/14 14:09	9/8/14 14:24	9/22/14 10:48
Parameter	ug/L	ug/L	ug/L	ug/L																			
Alkalinity																							
ALKALINITY, BICARBONATE		NS	NS	NS	11000B	14000B	22000B	22000	23000B	23000B	15000B	19000B	28000	16000B	20000B	20000	11000B	22000	19000B	22000B	21000B	24000B	26000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	11000B	14000B	22000B	22000	23000B	23000B	15000B	19000B	28000	16000B	20000B	20000B	11000B	22000	19000B	22000B	21000B	24000B	26000B
Ca, Mg, K, Na																							
Calcium		NS	NS	NS	31000B	46000B				9000	5400	69000B	9200	7500	81000B	82000B	46000B	94000B	7800	85000B	8300	92000B	8900
Magnesium		NS	NS	NS	6800	11000B				1600	1300	1600	2300	1800	1800	1700	1200	2200	1800	1700	1700	2000	2000
Potassium		NS	NS	NS	3700B	8300B				5300	4700	4900	5500	4900	5200	5900	5400B	5600B	5300	5400	4900B	5300B	5100B
Sodium		NS	NS	NS	27000	65000B			36000B	45000B	47000	51000B	61000B	57000B	55000	47000	30000B	55000	46000	56000B	51000B	55000	48000B
Br-, Cl, NO3, SO4																							
Bromide		NS	NS	NS																			
Chloride	250,000 Max.	NS	NS	NS	46000B	76000	82000	74000	72000	100000B	100000	130000	140000B	91000	120000	130000B	47000	84000	100000B	110000	110000B	110000B	110000B
Nitrate As N	10,000 Max.	NS	NS	NS	2300B	2100	3600	3400	3600	4100	3800	4300	4300	3800	3900B	4400	4000	4500H B	3900	3600	3800	3700	3500
Sulfate	250,000 Max.	NS	NS	NS	27000	56000	37000	38000	39000	36000	31000	38000	39000	29000	34000B	42000B	30000	35000	38000B	31000	37000B	35000B	35000B

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
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 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
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 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15	COD-SW-15
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	10/6/14 13:55	10/20/14 14:09	11/3/14 13:55	11/20/14 13:26	12/3/14 13:26	12/22/14 14:24	1/13/15 13:12	3/10/15 13:55	3/10/15 13:55	3/24/15 13:40	4/21/15 12:57	5/20/15 12:43	6/15/15 13:40	6/15/15 13:40	7/15/15 10:04	7/15/15 13:26	8/14/15 13:26	8/14/15 13:26
Parameter	ug/L	ug/L	ug/L	ug/L									Dup				Dup	Dup				Dup
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	240000B	220000B	240000B	230000B	220000B	230000B	230000B	200000B	210000B	240000B	250000B	190000B	230000B	230000B	220000B	220000B	230000B	280000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	7900	4000J	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	240000B	220000B	240000B	230000B	220000B	230000B	230000B	200000B	210000B	240000B	250000B	190000B	240000B	240000B	220000B	220000B	230000B	280000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	81000B	85000	82000B	92000B	84000	85000B	89000B	74000B	76000B	96000	100000	87000B	91000B	100000B	89000B	89000B	91000B	92000B
Magnesium		NS	NS	NS	15000	16000B	15000	17000B	15000	17000	16000B	15000	15000	19000B	17000	16000	16000	17000B	18000	18000	20000B	20000B
Potassium		NS	NS	NS	4900	5100	4600	5600	5000	5000B	5900B	5400	5600	6200	5900	5200	5200	6000	5400B	5400B	6100B	6200B
Sodium		NS	NS	NS	47000	48000B	41000B	50000B	45000	47000B	48000B	56000	57000	78000B	61000	54000	55000	60000B	56000	57000	64000B	65000B
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	120000B	110000	100000	110000B	110000	110000	110000	110000	110000	160000B	150000	150000B	140000	140000B	130000B	130000B	130000	130000
Nitrate As N	10,000 Max.	NS	NS	NS	3600B	3600	3500B	3500	3600	3700B	3500B	3600	3800	3800B	3800	3800B	3700	3500B	3300B	3300B	3100	3300
Sulfate	250,000 Max.	NS	NS	NS	35000B	33000	32000	34000	34000	35000	33000	28000	29000	33000	36000	35000	37000	34000	33000	33000	32000	34000

Notes:
 Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	8/22/13 15:21	1/23/14 12:14	2/20/14 11:31	3/17/14 11:31	4/21/14 11:45	5/6/14 10:19	5/19/14 12:43	6/2/14 11:31	6/26/14 10:33	6/30/14 11:31	7/14/14 11:45	8/8/14 9:36	8/25/14 9:50	9/8/14 10:48	9/22/14 14:24	10/6/14 11:45	10/20/14 11:02	11/3/14 10:04
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	100000B	86000B	81000B	67000B	78000B	68000B	70000B	81000	58000B	96000	97000B	110000B	94000B	130000B	120000B	120000B	140000B	140000B
ALKALINITY, CARBONATE		NS	NS	NS	1300J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	110000B	86000B	81000B	67000B	78000B	68000B	70000B	81000B	58000B	96000	97000B	110000B	94000B	130000B	120000B	120000B	140000B	140000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS		35000	28000	28000B	31000	27000	25000B	29000B	25000B	33000B	35000	42000B	34000	41000B	42000	38000B	46000	42000B
Magnesium		NS	NS	NS		7600	7600	7700	8800	8100	6800	7200	7900	8900	9200	9600	8400	9900	10000	7700	8900B	8500
Potassium		NS	NS	NS		4500	3600	3000	3200	2800B	2500	3400	5100B	4300B	4900	6700	5700B	7500B	8000B	7600	6200	7600
Sodium		NS	NS	NS		35000B	50000	28000B	24000	20000B	14000	25000	19000B	32000	37000	55000B	42000B	51000	62000B	46000	49000B	52000B
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	44000	54000B	98000	51000	42000	32000	30000	48000B	28000	52000B	53000B	59000	59000B	59000B	76000B	60000B	66000	70000
Nitrate As N	10,000 Max.	NS	NS	NS	2500	4600	3700	4600	3600	3700B	3700B	4000	3600	3400	3000	2300	2500	1900	1800	1700B	2000	2000J
Sulfate	250,000 Max.	NS	NS	NS	45000	49000	24000	32000	24000	20000	16000B	31000B	21000	42000	45000B	53000	51000B	54000B	88000B	66000B	61000	63000

Notes:

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 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
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 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-16	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	11/20/14 10:04	12/3/14 10:04	12/22/14 10:04	1/13/15 10:19	3/10/15 10:33	3/24/15 10:04	4/21/15 9:36	5/20/15 10:04	6/15/15 9:50	7/15/15 10:19	8/14/15 10:19	8/22/13 13:26	9/26/13 10:04	11/21/13 8:24	1/30/14 12:28	2/20/14 9:36	3/17/14 11:16	4/21/14 11:16
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	15000B	10000B	12000B	99000B	70000B	87000B	95000B	100000B	100000B	88000B	140000B	244000	240000	230000B	240000B	210000B	230000B	240000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	150000B	100000B	120000B	99000B	70000B	87000B	95000B	100000B	110000B	88000B	140000B	244000	240000	230000B	240000B	210000B	230000B	240000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	42000B	36000	47000B	33000B	35000B	36000	38000	38000B	44000B	32000B	41000B				94000B	76000	90000B	83000
Magnesium		NS	NS	NS	8800B	6800	9400	7600B	8400	8200B	7700	7500	8400B	7300	9900B				20000	17000	19000	19000
Potassium		NS	NS	NS	9200	5800	6700B	7200B	6100	4000	4800	5700	5000	4000B	8000B				5500	5200	6000	5700
Sodium		NS	NS	NS	62000B	40000	58000B	69000B	37000	42000B	35000	36000	28000B	30000	63000B			37000B	52000B	65000	67000B	56000
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	71000	66000	86000	110000	73000	72000B	59000	55000B	54000	47000B	72000	74000	73000	72000	110000B	150000	160000	150000
Nitrate As N	10,000 Max.	NS	NS	NS	2300	2600	3100B	3300B	2000	3600B	2200	2500B	2800H	2400B	2000	3300	3200	3400	3800	2900	3100	2900
Sulfate	250,000 Max.	NS	NS	NS	64000	47000	69000	50000	12000	29000	26000	37000	25000	30000	59000	34000	38000	38000	36000	32000	36000	35000

Notes:

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 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	5/6/14 10:04	5/19/14 12:28	6/3/14 11:02	6/23/14 9:07	7/1/14 11:16	7/14/14 11:16	8/4/14 14:38	8/25/14 10:33	8/25/14 10:33	9/8/14 11:02	9/22/14 13:55	9/22/14 13:55	10/6/14 11:02	10/6/14 11:31	10/20/14 11:31	11/3/14 10:19	11/3/14 10:19	11/20/14 10:19
Parameter	ug/L	ug/L	ug/L	ug/L									Dup		Dup						Dup	
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	20000B	18000B	23000	22000B	21000	23000B	14000B	20000B	21000B	25000B	28000B	24000B	24000B	25000B	22000B	25000B	25000B	22000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	20000B	18000B	23000B	22000B	21000	23000B	14000B	20000B	21000B	25000B	28000B	24000B	24000B	25000B	22000B	25000B	25000B	22000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	7800	6600B	8700	8600B	8900B	9400	5700B	8100	8300	9400B	9300	8600	9000B	8300B	8600	8400B	8800B	9300B
Magnesium		NS	NS	NS	1800	1400	1900	1900B	2100	2200	1500	1700	1800	2200	2100	1900	1800	1600	1600B	1600	1600	1700B
Potassium		NS	NS	NS	5900B	490	640	5700B	6300B	610	500	5700B	5500B	8200B	5900B	5500B	5500	5300	5500	5000	5300	610
Sodium		NS	NS	NS	47000B	4100	4600	5200	51000B	5500	42000B	49000B	52000B	5300	50000B	47000B	4600	4400	46000B	42000B	44000B	48000B
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	9900	9100	12000B	12000B	12000B	12000B	7400	11000B	11000B	11000B	11000B	11000B	11000B	11000B	12000	12000B	12000B	11000B
Nitrate As N	10,000 Max.	NS	NS	NS	3200B	3200B	380	330	4200B	370	2600	330	330	320	3500	3100	3400B	3100B	3500	3400J	4000B	3200
Sulfate	250,000 Max.	NS	NS	NS	27000	28000B	40000B	37000B	36000	42000B	32000	42000B	42000B	39000B	37000B	36000B	36000B	36000B	34000	36000B	36000B	33000

Notes:

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**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-17	COD-SW-18	COD-SW-19	COD-SW-19	COD-SW-20	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	11/20/14 10:19	12/3/14 10:19	12/3/14 10:19	12/22/14 10:33	12/22/14 10:33	1/13/15 10:33	3/10/15 11:02	3/24/15 10:19	4/21/15 10:04	5/20/15 10:19	5/20/15 10:19	6/15/15 10:04	7/15/15 10:04	8/14/15 10:04	8/22/13 14:24	9/26/13 9:07	11/21/13 11:31	9/26/13 8:09
Parameter	ug/L	ug/L	ug/L	ug/L	Dup		Dup		Dup					Dup								
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	24000B	22000B	22000B	24000B	25000B	24000B	7600B	19000B	23000B	23000B	25000B	23000B	25000B	29000B	12000B	22000	22000B	13000
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	7900	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	24000B	22000B	22000B	24000B	25000B	24000B	7600B	19000B	23000B	23000B	25000B	24000B	25000B	29000B	12000B	22000	22000B	13000
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	9500B	9300	8300	8700B	9100B	9300B	2400B	9700	9900	8900B	8400B	10000B	9500B	9400B				
Magnesium		NS	NS	NS	1800B	1600	1500	1700	1800	1800B	530	1900B	1700	1600	1600	1900B	1900	2100B				
Potassium		NS	NS	NS	6200	5900	5400	5500B	5800B	6800B	4900	6100	5800	5200	5000	5900	5400B	6100B				
Sodium		NS	NS	NS	5000B	4700	4400	5000B	5300B	5200B	3600	6900B	5900	5300	5300	6000B	5800	6100B			1900B	
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	11000	12000	12000	12000B	12000	13000	7300	14000B	14000	13000B	13000B	14000B	13000B ^	13000	5000	4100	3900	5800
Nitrate As N	10,000 Max.	NS	NS	NS	3400	3400	3400	3400	3400B	3400B	2100	3700B	3500	3300B	3300B	3500H B	3300B	3200	2400	3700	4700	2500
Sulfate	250,000 Max.	NS	NS	NS	34000	34000	34000	32000	34000	34000	12000	32000	34000	33000	33000	34000	33000	33000	38000	21000	20000	16000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	11/21/13 7:55	1/23/14 13:40	2/20/14 12:14	3/17/14 12:14	4/21/14 14:38	5/6/14 12:28	5/20/14 9:21	6/2/14 12:28	6/26/14 11:02	6/30/14 12:14	7/14/14 14:24	8/8/14 9:50	8/25/14 11:31	9/8/14 12:00	9/22/14 15:21	10/6/14 12:28	10/20/14 12:43	11/3/14 11:16
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	120000B	96000B	91000B	85000B	97000B	91000B	99000B	91000	83000B	110000	95000B	130000B	130000B	160000B	110000B	150000B	150000B	130000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	11000	5000U	5000U	8000	5000U	4000J	5000U	4000J	5000U	8000	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	120000B	96000B	91000B	85000B	97000B	91000B	99000B	100000B	83000B	110000	100000B	130000B	130000B	160000B	110000B	150000B	160000B	130000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS		44000	41000	39000B	43000	40000	41000B	42000B	33000B	49000B	45000	51000B	49000	61000B	39000	49000B	56000	54000B
Magnesium		NS	NS	NS		8600	9300	9300	11000	10000	9300	8900	7400	12000	11000	10000	10000	13000	9500	9100	11000B	9900
Potassium		NS	NS	NS		2300	3100	2400	2400	2400B	2400	2300	2500B	2500B	2800	2600	2500B	3000B	2600B	2500	2900	2900
Sodium		NS	NS	NS	27000B	40000B	110000	50000B	34000	30000B	30000	29000	20000B	32000	30000	36000B	35000B	41000	24000B	30000	34000B	31000B
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	57000	95000B	240000	110000	83000B	71000B	65000	79000B	38000	61000	71000B	70000	85000B	87000B	55000B	77000B	80000	91000B
Nitrate As N	10,000 Max.	NS	NS	NS	3400	4900	3000	4200	4000	3900B	3700B	4200	2200	4500H B	3200	2700	3200	2200	2200	1800B	2400	3300J
Sulfate	250,000 Max.	NS	NS	NS	17000	17000	17000	19000	19000	19000	17000B	18000B	8400	14000	17000B	15000	18000B	19000B	13000B	18000B	17000	17000B

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-20	COD-SW-21	COD-SW-21	COD-SW-23	COD-SW-23	COD-SW-24	COD-SW-24	COD-SW-25	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	11/20/14 11:02	12/3/14 11:02	12/22/14 11:16	1/13/15 10:48	3/10/15 11:31	3/24/15 10:48	4/21/15 10:33	5/20/15 10:48	6/15/15 10:33	7/15/15 10:48	8/14/15 10:48	9/26/13 12:14	11/21/13 9:50	9/26/13 10:48	11/21/13 10:48	9/26/13 11:16	11/21/13 10:33	9/26/13 11:02
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	15000B	11000B	12000B	9300B	9100B	12000B	11000B	14000B	13000B	8000B	17000B	13000	12000B	12000	16000B	16000	19000B	11000
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	15000B	11000B	12000B	9300B	9100B	12000B	11000B	14000B	13000B	8000B	17000B	13000	12000B	12000	16000B	16000	19000B	11000
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	5800B	3800	5400B	4500B	3700B	5500	5500	5100B	6500B	2900B	5700B							
Magnesium		NS	NS	NS	1000B	650	1000	860B	710	1000B	900	920	1100B	570	1200B							
Potassium		NS	NS	NS	2900	2600	2400B	3200B	3600	2900	2800	2700	3000	2600B	3300B							
Sodium		NS	NS	NS	3500B	3600	4000B	11000B	9000	6100B	4800	4400	4900B	2000	4800B		2800B		5400B		4300B	
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	76000	68000	91000B	220000	160000	130000B	110000	110000B	120000	46000B	100000	61000	56000	59000	68000	66000	83000	54000
Nitrate As N	10,000 Max.	NS	NS	NS	4300	2300	3400	2500B	2200	3400B	2100	1900B	2200H	1700B	2400	2600	3400	1900	2700	1800	2700	2000
Sulfate	250,000 Max.	NS	NS	NS	18000	34000	19000	15000	11000	18000	15000	16000	16000	9100	16000	17000	16000	67000	59000	58000	49000	89000

Notes:
 Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-25	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	11/21/13 10:19	1/24/14 8:24	2/20/14 9:21	3/17/14 12:57	4/21/14 15:21	5/6/14 14:24	5/20/14 9:36	6/2/14 12:57	6/26/14 12:28	6/30/14 12:28	7/15/14 12:28	8/8/14 10:48	8/25/14 12:00	9/8/14 12:28	9/22/14 8:52	10/6/14 13:12	10/20/14 13:26	11/3/14 12:00
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	12000B	16000B	17000B	12000B	11000B	93000B	10000B	12000	64000B	12000	69000B	130000B	94000B	230000B	230000B	250000B	250000B	290000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	17000	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	120000B	160000B	170000B	120000B	110000B	93000B	100000B	120000B	64000B	120000	86000B	130000B	94000B	230000B	230000B	250000B	250000B	290000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS		70000	58000	50000B	38000	38000	42000B	36000B	25000B	39000B	29000	48000B	36000	100000B	100000	97000B	100000	99000B
Magnesium		NS	NS	NS		12000	12000	11000	9200	10000	10000	9200	7700	12000	8300	15000	8800	17000	17000	14000	15000B	14000
Potassium		NS	NS	NS		3600	3600	3200	2900	2900B	2700	3500	5000B	4100B	4300	5700	6100B	3100B	3400B	2800	2900	2900
Sodium		NS	NS	NS	60000B	44000B	52000	45000B	29000	27000B	26000	29000	21000B	35000	29000	55000B	43000B	79000	70000B	67000	69000B	62000B
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	56000	90000B	130000	100000	67000B	51000	56000	61000	30000	72000B	42000B	77000	59000B	150000B	150000B	160000B	160000	150000
Nitrate As N	10,000 Max.	NS	NS	NS	2800	4700	4200	4600	3900	3900B	3800B	3600	3600	3500	3300	2200	2600	4600	4500	4800B	4500	4300B
Sulfate	250,000 Max.	NS	NS	NS	70000	40000	28000	34000	26000	23000	21000B	28000	27000	45000	31000B	48000	54000B	28000B	28000B	30000B	26000	25000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-26	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	11/20/14 11:45	12/3/14 11:45	12/22/14 12:14	1/13/15 11:31	3/10/15 12:00	3/24/15 11:45	4/21/15 10:48	5/20/15 13:12	6/15/15 11:16	7/15/15 11:16	8/14/15 11:16	1/27/14 13:12	2/20/14 11:02	3/17/14 13:55	4/22/14 9:36	5/7/14 9:21	5/20/14 11:45	6/6/14 11:45
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	24000B	23000B	23000B	12000B	72000B	18000B	14000B	26000B	13000B	13000B	25000B	96000B	81000B	70000B	87000	73000B	74000B	86000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	24000B	23000B	23000B	12000B	72000B	18000B	14000B	26000B	13000B	13000B	25000B	96000B	81000B	70000B	87000	73000B	74000B	86000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	11000B	10000	10000B	42000B	22000B	61000	59000	11000B	46000B	40000B	12000B	34000	29000	29000B	31000	31000	28000B	26000B
Magnesium		NS	NS	NS	16000B	17000	15000	9900B	6100	14000B	14000	16000	8700B	11000	20000B	8100	8600	8500	10000	9000	8000	7200B
Potassium		NS	NS	NS	3200	3500	2600B	6700B	6400	3600	4600	3100	5000	4200B	3700B	4300	3700	3300	3400	3100	2600	3600B
Sodium		NS	NS	NS	71000B	58000	64000B	66000B	30000	58000B	50000	91000	29000B	36000	91000B	27000	38000	28000B	26000B	23000B	15000	22000B
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	160000	150000	150000	110000	60000	120000B	110000	230000B	57000	64000B	190000	52000	71000	74000	45000B	31000	30000	42000B
Nitrate As N	10,000 Max.	NS	NS	NS	4400	4400	4600B	3400B	2100	3700B	2600	3700B	3000	2500B	4000	4700	3800	4600	3700	3600B	3800B	3600
Sulfate	250,000 Max.	NS	NS	NS	31000	26000	30000	43000	13000	32000	33000	27000	26000	35000	27000	31000	26000	34000	28000	24000	18000B	25000B

Notes:

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 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-27	COD-SW-28	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	6/26/14 13:12	6/30/14 14:09	7/15/14 14:09	8/8/14 13:26	8/25/14 14:24	9/8/14 14:38	9/22/14 11:02	10/6/14 14:24	12/3/14 13:26	1/13/15 13:26	3/10/15 14:09	3/24/15 13:55	4/21/15 13:12	5/20/15 12:43	6/15/15 13:40	7/15/15 13:26	8/14/15 13:26	1/27/14 12:28
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	6000B	9800	7100B	11000B	10000B	12000B	19000B	19000B	18000B	17000B	6400B	17000B	20000B	15000B	12000B	16000B	15000B	13000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	800	800	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	400J	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	6000B	9800	7100B	11000B	11000B	12000B	19000B	19000B	18000B	17000B	6400B	17000B	20000B	15000B	13000B	16000B	15000B	13000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	2500B	3600B	2500	4100B	3500	4200B	6000	6000B	7700	6500B	2300B	7000	6400	5200B	4500B	5100B	4400B	4600
Magnesium		NS	NS	NS	790	1100	760	1100	880	1100	1500	1300	1300	1400B	630	1500B	1300	1100	930	1100	1100B	980
Potassium		NS	NS	NS	5200B	5000B	410	680	6500B	7300B	6700B	820	560	6800B	620	570	570	640	490	4200B	7900B	710
Sodium		NS	NS	NS	2200B	3600	2600	5600B	4500B	5100	5700B	4200	4100	5900B	3200	6000B	4600	4300	2800	3300	6300B	3600
Br-, Cl, NO3, SO4																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	2900	4300	3600B	6000	6100B	6300B	9300B	8700B	9200	11000	6200	11000B	10000	8100B	5600B	6000B ^	7300	7000
Nitrate As N	10,000 Max.	NS	NS	NS	3500	3500H B	3100	2100	2400	1800	2600	2400B	3400	3800B	2200	3600B	2900	2800B	2900B	2100B	2100	4100
Sulfate	250,000 Max.	NS	NS	NS	2800	4000	3100B	5400	5700B	5300B	5700B	4900B	3800	3800	1400	3200	3300	3800	2600	2700	5700	3000

Notes:

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 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	2/20/14 12:00	3/17/14 14:52	4/22/14 10:19	5/7/14 10:04	5/20/14 11:02	6/2/14 15:07	6/26/14 13:40	6/30/14 15:21	7/15/14 15:21	8/8/14 12:28	8/25/14 13:12	9/8/14 13:55	9/22/14 10:19	10/6/14 15:07	10/20/14 15:21	11/3/14 12:57	11/20/14 12:43	12/3/14 12:43
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	120000B	110000B	130000	130000B	130000B	160000	110000B	150000	120000B	200000B	180000B	170000B	150000B	170000B	210000B	200000B	170000B	150000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	6200	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	120000B	110000B	130000	130000B	130000B	160000B	110000B	150000	120000B	200000B	180000B	170000B	150000B	170000B	210000B	200000B	170000B	150000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	46000	42000B	50000	51000	47000B	56000B	52000B	54000B	42000	68000B	62000	66000B	56000	59000B	63000	57000B	61000B	60000
Magnesium		NS	NS	NS	11000	11000	13000	12000	11000	12000	13000	13000	11000	13000	12000	13000	12000	10000	11000B	10000	12000B	9800
Potassium		NS	NS	NS	5500	4500	5300	5200	5200	7200	7700B	8500B	7300	19000	14000B	14000B	12000B	11000	11000	11000	14000	8000
Sodium		NS	NS	NS	73000	39000B	40000B	35000B	31000	34000	34000B	38000	39000	69000B	54000B	59000	54000B	45000	48000B	46000B	70000B	51000
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	150000	47000	79000B	66000	56000	75000	47000	73000B	62000B	100000	99000B	97000B	89000B	84000B	91000	84000	100000	94000
Nitrate As N	10,000 Max.	NS	NS	NS	3600	4600	4500	3100	3600B	3400	3600	3100H	3100	4100	5400	6600	4900	6200B	4700	3900B	3500	3000
Sulfate	250,000 Max.	NS	NS	NS	30000	33000	31000	26000	24000B	27000	28000	41000	37000B	36000	44000B	46000B	42000B	39000B	38000	37000	47000	37000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
 Water quality criteria for other parameters are from PA Code § Chapter 93-Water Quality Standards (Table 3-Specific Water Quality Criteria for Critical Uses)
 Blank Criterion indicate none was developed for analyte.
 Blank results indicate that analyte was not analyzed for.
 Dissolved metal criteria are based on a hardness of 100 milligrams per liter (mg/L).
 U = Not detected.
 J = Estimated.
 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-28	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	
Depth (ft.)	Criteria for	Health	Continuous	Maximum																		
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	12/22/14 13:26	1/13/15 12:28	3/10/15 12:57	3/24/15 12:57	4/21/15 12:28	5/20/15 12:00	6/15/15 12:57	7/15/15 12:28	8/14/15 12:28	3/18/14 15:36	4/21/14 12:57	5/6/14 11:16	5/19/14 14:09	6/2/14 10:04	6/26/14 9:21	6/30/14 10:04	7/14/14 12:14	8/8/14 8:09
Parameter	ug/L	ug/L	ug/L	ug/L																		
Alkalinity																						
ALKALINITY, BICARBONATE		NS	NS	NS	16000B	13000B	95000B	180000B	170000B	160000B	150000B	150000B	210000B	68000B	75000B	67000B	68000B	80000	59000B	96000	99000B	110000B
ALKALINITY, CARBONATE		NS	NS	NS	4000J	5000U	5000U	5000U	5000U	5000U	4000J	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	160000B	130000B	95000B	180000B	170000B	160000B	160000B	150000B	210000B	68000B	75000B	67000B	68000B	82000B	59000B	96000	99000B	110000B
Ca, Mg, K, Na																						
Calcium		NS	NS	NS	59000B	51000B	38000B	64000	59000	130000B	69000B	50000B	77000B		30000	28000	26000B	29000B	26000B	35000B	36000	41000B
Magnesium		NS	NS	NS	12000	11000B	8900	14000B	11000	24000	13000B	11000	14000B		8800	8200	7300	7100	8300	9800	9200	9800
Potassium		NS	NS	NS	8900B	8100B	6700	6400	7600	11000	13000	8000B	18000B		3500	3000B	2600	3500	4500B	5000B	5500	6900
Sodium		NS	NS	NS	52000B	71000B	56000	52000B	52000	51000	45000B	47000	82000B		24000	20000B	15000	24000	20000B	34000	38000	52000B
Br-, Cl, NO3, SO4,																						
Bromide		NS	NS	NS																		
Chloride	250,000 Max.	NS	NS	NS	88000	120000	100000	100000B	110000	96000B F1	90000B	82000B	130000	46000	38000	30000	27000	39000	29000	51000B	51000B	58000
Nitrate As N	10,000 Max.	NS	NS	NS	4100B	4300B	2600	4400B	2900	3400B	5800B	4000B	2500	4600	3600	3600B	3700B	3500	3700	3300	2900	2300
Sulfate	250,000 Max.	NS	NS	NS	42000	36000	18000	27000	31000	38000	33000	35000	41000	33000	24000	21000	16000B	24000	23000	43000	44000B	50000

Notes:

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 B = blank contamination.

**Table 2.3-1C
Codorus Creek Other Sample Results
Former York Naval Ordnance Plant - York, PA**

Location/ID	Water Quality	Human	Fish & Aquatic Life		COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29	COD-SW-29
Depth (ft.)	Criteria for	Health	Continuous	Maximum																	
Sample Date	Toxic Substances	Criteria	Concentration	Concentration	8/25/14 8:24	9/8/14 9:21	9/22/14 12:28	10/6/14 9:21	10/20/14 8:52	11/3/14 8:52	11/20/14 8:24	12/3/14 8:24	12/22/14 8:52	1/13/15 9:07	3/10/15 9:21	3/24/15 9:07	4/21/15 8:38	5/20/15 8:52	6/15/15 8:24	7/15/15 8:38	8/14/15 8:38
Parameter	ug/L	ug/L	ug/L	ug/L																	
Alkalinity																					
ALKALINITY, BICARBONATE		NS	NS	NS	92000B	130000B	120000B	130000B	130000B	160000B	150000B	120000B	150000B	230000B	89000B	120000B	110000B	99000B	110000B	84000B	140000B
ALKALINITY, CARBONATE		NS	NS	NS	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U	5000U
ALKALINITY, TOTAL	20,000 Min.	NS	NS	NS	92000B	130000B	120000B	130000B	130000B	160000B	150000B	120000B	150000B	230000B	89000B	120000B	110000B	99000B	110000B	84000B	140000B
Ca, Mg, K, Na																					
Calcium		NS	NS	NS	34000	41000B	45000	35000B	45000	39000B	44000B	36000	45000B	37000B	20000B	71000	37000	34000B	44000B	32000B	43000B
Magnesium		NS	NS	NS	8200	9700	12000	7000	9000B	8100	9700B	6900	8800	8100B	5800	21000B	7900	6900	8600B	7600	10000B
Potassium		NS	NS	NS	5900B	8300B	8100B	7700	6800	8000	9800	5800	6600B	8700B	6100	6300	5300	5900	5800	3800B	8900B
Sodium		NS	NS	NS	40000B	51000	63000B	43000	52000B	55000B	62000B	40000	57000B	72000B	31000	41000B	37000	35000	28000B	29000	66000B
Br-, Cl, NO3, SO4																					
Bromide		NS	NS	NS																	
Chloride	250,000 Max.	NS	NS	NS	56000B	60000B	91000B	55000B	63000	69000B	69000	62000	84000	92000	59000	67000B	60000	52000B	55000	48000B	74000
Nitrate As N	10,000 Max.	NS	NS	NS	2600	2100	2100	1800B	1800	1600J	3000	2400	3100B	3100B	2100	3500B	2400	2600B	3000H	2300B	2100
Sulfate	250,000 Max.	NS	NS	NS	49000B	55000B	86000B	64000B	60000	67000B	60000	45000	71000	56000	12000	30000	30000	36000	27000	28000	58000

Notes:

Water quality criteria for metals are from PA Code § Chapter 93-Water Quality Standards (Table 5-Water Quality Criteria for Toxic Substances)
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