APPENDIX B

STERLING, AUGUST 17, 2012, ORANGE COUNTY LANDFILL - CHEECHUNK CANAL SEEP SAMPLING WORK PLAN
&
STERLING, SEPTEMBER 20, 2012, ORANGE COUNTY LANDFILL - CHEECHUNK CANAL SEEP SAMPLING RESULTS

STERLING
Sterling Environmental Engineering, P.C.

August 17, 2012

Ms. Susan Edwards, P.E.
Chief, Remedial Section D
NYS Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway
Albany, New York 12233-7017

Subject: Orange County Landfill
NYS Inactive Hazardous Waste Site No. 336007
Cheechunk Canal Seep Sampling Work Plan
STERLING File #2010-15

Dear Ms. Edwards,

In response to your letter dated July 16, 2012, the following Work Plan is provided outlining the sampling methodology and procedures for the sampling of seeps along the Cheechunk Canal adjacent to the Orange County Landfill to determine whether the seeps contain leachate constituents and to determine if the Landfill is impacting the canal.

A meeting was conducted August 16, 2012 at the Landfill with Steven Parisio and Carl Hoffman of the NYSDEC and Sterling Environmental Engineering, P.C. (STERLING). Due to heavy vegetation and limited access, the selection of sampling locations could not be finalized. We will return with a boat during the field sampling event to access the seep locations.

Field Sampling:

Sampling will be conducted by STERLING on August 22, 2012 at the following locations:

- Aqueous and floc samples will be obtained at up to three (3) seep locations adjacent to the canal near the closed landfill.
- An aqueous and floc sample will be obtained at one (1) seep location adjacent to canal upstream of and away from the potential influence of the closed landfill.
- One (1) aqueous grab sample will be obtained from the leachate manhole. A floc sample cannot be obtained at this location.
- Two (2) aqueous grab samples will be obtained from the canal; one (1) adjacent to the largest observed seep and one (1) upstream of the landfill site.

This results in a total of seven (7) aqueous samples and four (4) floc samples. A boat will be furnished by STERLING.

24 Wade Road ✦ Latham, New York 12110 ✦ Tel: 518-456-4900 ✦ Fax: 518-456-3532
E-mail: sterling@sterlingenvironmental.com ✦ Website: www.sterlingenvironmental.com

The grab samples will be obtained at the water surface using a wide mouth glass jar. The aqueous samples will be obtained by use of a peristaltic pump and dedicated tubing.

Field parameters will be measured as follows.

Water Depth, pH, Specific Conductivity, Temperature, and Oxidation Reduction Potential (ORP) measurements will be recorded in the field on data sheets, and provided in the report for sampled locations.

Aqueous samples will be analyzed for NYSDEC 6 NYCRR 360 "Baseline Parameters".

In accordance with NYSDEC's request, floc samples will be analyzed for TOC, Iron, Aluminum, Si, Mn, and Arsenic.

Additionally, an explosive gas survey of the landfill perimeter will be conducted.

Reporting:

A final letter report and original laboratory data sheets will be prepared with appropriate observations and conclusions.

Please contact me should you have any questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Mark P. Millspaugh, P.E.
President
mark@sterlingenvironmental.com

MPM/bc
Email/First Class Mail

cc: Peter Hammond, Orange County Department of Public Works
Steven Parisio, PG, NYSDEC Region 3
Carl Hoffman, P.E., NYSDEC Central Office

2010-15/Correspondence/NYSDEC_Cheechunk Canal Seep Sampling Work Plan_ltr.doc

STERLING
Sterling Environmental Engineering, P.C.

September 20, 2012

Ms. Susan Edwards, P.E.
Chief, Remedial Section D
NYS Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway
Albany, New York 12233-7017

Subject: Orange County Landfill
NYS Inactive Hazardous Waste Site No. 336007
Cheechunk Canal Seep Sampling
STERLING File #2010-15 (Task 310)

Dear Ms. Edwards,

In accordance with the August 17, 2012 Work Plan approved by the NYSDEC, Sterling Environmental Engineering, P.C. (STERLING) met with the NYSDEC at the Orange County Landfill on August 16, 2012 for the purpose of selecting sampling locations. Due to the limited accessibility of the shoreline of the Cheechunk Canal, the NYSDEC deferred the decision on sampling locations until the August 22, 2012 sampling event.

On August 22, 2012, STERLING provided a canoe so that NYSDEC personnel could inspect the entire riverbank along the Landfill in order to identify seep locations and to select suitable, representative sampling locations. Based upon the inspection, samples were obtained as follows:

- Aqueous and floc samples were obtained at two (2) seep locations adjacent to the canal near the closed Landfill. These locations are shown as Seep 1 and Seep 3 on Figure 1.

- One (1) background floc sample was obtained at the seep location indicated as Seep 2 on Figure 1 containing precipitate similar in appearance to the aforementioned floc samples adjacent to canal, at a location not adjacent to the footprint of the closed Landfill.

- One (1) aqueous grab sample was obtained from the leachate manhole shown as LMH1 in Figure 1. A floc sample was not obtained at this location as there was no visible precipitate.

- Two (2) aqueous grab samples were obtained from the canal; one (1) adjacent to the largest observed seep shown as SW02 and one (1) upstream of the Landfill site shown as SW01 (see Figure 1).

This results in a total of five (5) aqueous samples and three (3) floc samples.

Samples were submitted to TestAmerica, Inc. located in Amherst, NY. The analytical results are summarized by Tables 1 through 3 attached. The full laboratory analytical reports are also provided with this letter.

FINDINGS:

Floc sample results are summarized by Table 1 along with a comparison to Soil Cleanup Objectives (SCOs) stated in CP-51 and 6 NYCRR 375-6. Comparisons are also made to the reported natural range for soils in New York State.

The floc results are consistent with natural occurring levels and are not indicative of a release from the Landfill. In fact, the results for Seep 2, which is not situated in an area which would be influenced by the Landfill, are comparable to the locations near the Landfill. Further, seeps and surficial red staining are also evident on the south side of the canal which cannot be caused by any Landfill influence.

Regarding the analysis of water samples collected at the identified seep and surface water locations, field parameters and sample analytical results are presented in Tables 2 and 3. This data was compared to the surface and groundwater post-closure monitoring data reported in the July 2012 report by Cornerstone Environmental summarizing the 2012 post-closure monitoring event. The two seep locations sampled are nearest to existing groundwater wells PZ-4, MW-3B and MW-222. No appreciable differences were noted in comparing the seep sample results to the reported site groundwater condition.

Ammonia was detected in all seep and surface water locations in excess of the surface water standards ranging from 0.049 mg/l to 40.0 mg/l. Ammonia levels reported for the groundwater at wells PZ-4, MW-3B and MW-222 indicate a range of 0.13 to 5.2 mg/l. While Ammonia levels reported for Seep 1 and Seep 3 are elevated relative to the surface water sample locations in the canal, we also note Ammonia is present in the upgradient groundwater monitoring wells.

Iron was detected in all seep and surface water locations in excess of the surface water standards ranging from 1.4 to 6.5 mg/l. A review of Iron levels reported for groundwater wells PZ-4, MW-3B and MW-222 indicate a range of 2.05 to 126 mg/l. Elevated Iron is also noted in groundwater wells upgradient of the Landfill. The observed Iron concentrations at Seeps 1 and 3 are much lower than the concentration observed in nearby groundwater.

The analysis of the leachate sample from LMH1 was reviewed and compared to the water sample results at the seep locations. Typical leachate parameters (Ammonia, Iron, Manganese, Phenol, etc.) present in the leachate are also present in the seeps at much lower concentrations and except for Ammonia and Iron all parameters are within the applicable surface water standards at the seep locations.

There were no reported exceedances of volatile or semi-volatile parameters at the seep locations.

CONCLUSION:

The analyses of seep, surface water and flocculent samples are consistent with previously reported groundwater quality at the site. The data does not indicate a release from the Landfill has or is currently occurring. The water quality reported for the seeps is within the naturally occurring range. In fact, other

seeps and reddish stained areas exist along both sides of the Cheechunk Canal including areas removed from the Landfill.

Accordingly, no further response is recommended regarding these seeps.

Please contact me should you have any questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Mark P. Millspaugh, P.E.
President
mark@sterlingenvironmental.com

MPM/bc
Email/First Class Mail
Attachments

cc: Peter Hammond, Orange County Department of Public Works
Steven Parisio, PG, NYSDEC Region 3
Carl Hoffman, P.E., NYSDEC Central Office

2010-15/Correspondence/NYSDEC_Cheechunk Canal Seep Sampling Results_ltr.doc

GIS FIGURE 1

Approximate Explosive Gas Survey Location (every 100')

Downchute

Road

2012 Sampling Location

Parcel Boundary (Approximate)

Leachate Tank

Geomembrane and Refuse Limit (Approximate)

200 100 0 200 400 600 800 1,000 Feet

STERLING

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

2012 CHEECHUNK CANAL SURFACE WATER, SEEP & LANDFILL LEACHATE SAMPLING AND ORANGE COUNTY LANDFILL EXPLOSIVE GAS SURVEY

ORANGE COUNTY

ORANGE COUNTY LANDFILL

TOWN OF GOSHEN — ORANGE CO., N.Y.

PROJ. No.:	2010-15	DATE:	8-28-2012	SCALE:	AS SHOWN	DWG. NO.	2010-15003GIS	FIGURE	1

TABLE 1
Orange County Landfill
2012 Floc Sample Results

Lab Name: TestAmerica Buffalo
Customer: Sterling Environmental Engineering PC
Job No: 480-24283-1
Date :09/04/2012

Date Sampled **08/22/12**

METALS BY 6010B (SOLID) MG/KG

Analyte	CP-51 Standard or Guidance Value (PPM)	6 NYCRR Part 375-6* (PPM)	Reported New York Soil Natural Range(1) (PPM)	Floc 1		Floc 2		Floc 3	
Aluminum	10,000	NA	11,000 - 22,000	11,000		11,000		15,000	
Arsenic	NA	13 a	2.2 - 28	44		15		25	
Iron	2,000	NA	0 - 30,000	27,000	B	25,000	B	33,000	B
Manganese	NA	1,600 a	146 - 2,285	470		1,100		750	
Selenium	NA	3.9 a	0.4 - 5.1	0.79	U	0.92	U	0.77	U

GENERAL CHEMISTRY BY 9060 (SOLID) MG/KG

Total Organic Carbon	NA	NA	NA	120	B	2800	B	23	B

Notes:

NA - No standard or guidance value is available for these substances.

B - Compound was found in the blank and sample.

U - Indicates the analyte was analyzed for but not detected.

* - Unrestricted Use Soil Cleanup Objectives Table 375-6.8(a)

(1) = New York State Brownfield Cleanup Program Development of Soil Cleanup Objectives Techinical Support Document, Appendix D - Concentration of Selected Analytes in Rural New York State Surface Soils: A Summary Report on the Statewide Rural Surface Soil Survey, dated August 2005.

a - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the NYSDEC and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

TABLE 2
Orange County Landfill
2012 Seep Sampling - Water Quality Monitoring
Field Parameters Measurements Obtained 8/22/2012

Parameter	Title 6 Part 703.5 Standards	Units	Seep 01 (Adjacent to Landfill)	Seep 03 (Adjacent to Landfill)	SW01 (Canal Upstream of Landfill)	SW02 (Canal Adjacent to Seep 03)	LMH1 (Leachate Manhole)
Specific Conductance	--	mS/cm[c]	0.772	0.695	0.479	0.488	3.129
Temperature	--	degrees C	20.77	23.88	22.17	23.25	24.16
pH	6.5<pH< 8.5	pH Units	7.03	---	7.78	7.80	---
ORP	--	mV	-90.6	-77.0	43.9	-20.6	-46.1
Dissolved Oxygen	--	mg/L	9.3	8.17	6.78	6.68	8.05

Values in **BOLD** indicate an exceedance of applicable water quality standard or guidance value.

--- = No standard or not measured.

© 2012, Sterling Environmental Engineering, P.C.

TABLE 3
Orange County Landfill
2012 Seep Sampling - Water Quality Results
August 22, 2012

Analyte	CAS Number	Units	Specific Method		Reports To	Reg 1	SW01 Canal Upstream of Landfill 08/22/12	SW02 Canal Adjacent to Seep 03 08/22/12	Seep 01 Adjacent to Landfill 08/22/12	Seep 03 Adjacent to Landfill 08/22/12	LMH1 Leachate Manhole 08/22/12
1,1,1-Trichloroethane	71-55-6	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,1-Dichloroethene	75-35-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	96-18-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,2-Dibromoethane	106-93-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	5(1)	ND	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	5(1)	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	5(1)	ND	ND	ND	ND	ND
2-Butanone (MEK)	78-93-3	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	110-75-8	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Acetone	67-64-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	3.9 J	47 J
Acrylonitrile	107-13-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Alkalinity, Total	N/A	mg/L	Alkalinity	310.2	MRL	---	130 B	140 B	640	850	1500
Aluminum	7429-90-5	mg/L	Metals (ICP)	6010B	MRL	---	1.5	1.6	0.22	0.8	ND
Ammonia	7664-41-7	mg/L	Nitrogen, Ammonia	350.1	MRL	0.044	**0.049**	**0.21**	**40**	**13**	190
Antimony	7440-36-0	mg/L	Metals (ICP)	6010B	MDL	---	ND	ND	ND	ND	ND
Arsenic	7440-38-2	mg/L	Metals (ICP)	6010B	MRL	0.15	ND	ND	0.094	0.048	0.016
Barium	7440-39-3	mg/L	Metals (ICP)	6010B	MRL	---	0.033	0.039	0.44	0.33	0.15
Benzene	71-43-2	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	0.01	ND	ND	ND	ND	ND
Beryllium	7440-41-7	mg/L	Metals (ICP)	6010B	MDL	---	ND*	ND*	ND*	ND*	ND
Biochemical Oxygen Demand	N/A	mg/L	BOD, 5-Day	5210B	MDL	---	3.3 b	ND	ND	5.8 b	13 b
Boron	7440-42-8	mg/L	Metals (ICP)	6010B	MRL	10	0.035 B	0.036 B	0.37 B	0.23 B	1.7 B
Bromide	24959-67-9	mg/L	Anions, Ion Chromatography	300.0_28D	MRL	---	ND	ND	0.65	0.75	10
Bromodichloromethane	75-27-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Bromoform	75-25-2	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Bromomethane	74-83-9	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Cadmium	7440-43-9	mg/L	Metals (ICP)	6010B	MDL	0.8	ND	ND	ND	ND	ND
Calcium	7440-70-2	mg/L	Metals (ICP)	6010B	MRL	---	45	46	100	130	140
Carbon disulfide	75-15-0	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Carbon tetrachloride	56-23-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Chemical Oxygen Demand	N/A	mg/L	COD	410.4	MRL	---	14	15	21	22	380
Chloride	16887-00-6	mg/L	Anions, Ion Chromatography	300.0_28D	MRL	---	46	47	82	63	870
Chlorobenzene	108-90-7	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	5	ND	ND	ND	ND	ND
Chloroethane	75-00-3	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Chloroform	67-66-3	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Chloromethane	74-87-3	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Chromium	7440-47-3	mg/L	Metals (ICP)	6010B	MDL	0.47	0.0016 J	0.0022 J	ND	0.0011 J	0.0030 J
Chromium, hexavalent	18540-29-9	mg/L	Chromium, Hexavalent	7196A	MDL	0.011	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	10061-01-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Cobalt	7440-48-4	mg/L	Metals (ICP)	6010B	MDL	0.005	0.00067 J	ND	ND	0.0034 J	0.014
Color	N/A	Color Units	Color, Colorimetric	2120B	MRL	---	40	50	150	35	250
Copper	7440-50-8	mg/L	Metals (ICP)	6010B	MDL	0.89	0.0034 J	0.0031 J	ND	0.0038 J	0.0054 J
Cyanide, Total	57-12-5	mg/L	Cyanide, Total and/or Amenable	9012A	MDL	0.0052	ND	ND	ND	ND	0.0054 J
Dibromochloromethane	124-48-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	0.017 GV	ND	ND	ND	ND	ND
Hardness	N/A	mg/L	Hardness, Total	2340C	MRL	---	18 J	180	530	540	860
Iron	7439-89-6	mg/L	Metals (ICP)	6010B	MRL	0.3	**1.4**	**1.4**	**6.5**	**3.2**	5.6
Lead	7439-92-1	mg/L	Metals (ICP)	6010B	MDL	0.45	ND	ND	ND	ND	ND
Magnesium	7439-95-4	mg/L	Metals (ICP)	6010B	MRL	---	15	16	41	51	65
Manganese	7439-96-5	mg/L	Metals (ICP)	6010B	MRL	---	0.14	0.15	0.54	1.7	0.45
Mercury	7439-97-6	mg/L	Mercury (CVAA)	7470A	MDL	0.0007	ND	ND	ND	ND	ND
Methylene Chloride	75-09-2	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
m-Xylene & p-Xylene	179601-23-1	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	65(2)	ND	ND	ND	ND	ND
Nickel	7440-02-0	mg/L	Metals (ICP)	6010B	MRL	0.99	0.0015 J	0.0016 J	0.0093 J	0.0090 J	0.06
Nitrate as N	14797-55-8	mg/L	Nitrogen, Nitrate-Nitrite	NITRATE_CALC	MDL	---	0.77	0.83	ND	0.26	ND
o-Xylene	95-47-6	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	65(2)	ND	ND	ND	ND	ND
Phenolics, Total Recoverable	N/A	mg/L	Phenolics, Total Recoverable	9066	MRL	---	ND	ND	0.0054 J	ND	0.011
Potassium	7440-09-7	mg/L	Metals (ICP)	6010B	MRL	---	3.2	3.3	23	15	150
Selenium	7782-49-2	mg/L	Metals (ICP)	6010B	MDL	0.0046	ND	ND	ND	ND	ND
Silver	7440-22-4	mg/L	Metals (ICP)	6010B	MDL	0.0001	ND	ND	ND	ND	ND
Sodium	7440-23-5	mg/L	Metals (ICP)	6010B	MRL	---	29	30	81	59	590
Styrene	100-42-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Sulfate	14808-79-8	mg/L	Anions, Ion Chromatography	300.0_28D	MRL	---	19	19	19	7.7	160
Tetrachloroethene	127-18-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	1 GV	ND	ND	ND	ND	ND
Thallium	7440-28-0	mg/L	Metals (ICP)	6010B	MDL	0.008	ND	ND	ND	ND	ND
Toluene	108-88-3	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	0.1	ND	ND	ND	ND	ND
Total Dissolved Solids	N/A	mg/L	Solids, Total Dissolved (TDS)	2540C_CALCD	MRL	---	300	300	680	780	2700
Total Kjeldahl Nitrogen	N/A	mg/L	Nitrogen, Total Kjeldahl	351.2	MRL	---	2.4	0.97	38	12	140
Total Organic Carbon	7440-44-0	mg/L	Organic Carbon, Total (TOC)	9060	MRL	---	5.8	5.5	6.1	6	78
trans-1,2-Dichloroethene	156-60-5	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10061-02-6	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	110-57-6	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	40	ND	ND	ND	ND	ND
Trichlorofluoromethane	75-69-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Turbidity	N/A	NTU	Turbidity, Nephelometric	180.1	MRL	---	37	29	66	ND	33
Vanadium	7440-62-2	mg/L	Metals (ICP)	6010B	MRL	0.014	0.0043 J	0.0033 J	0.0017 J	0.0074	0.0057
Vinyl acetate	108-05-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	---	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	ug/L	Volatile Organic Compounds (GC/MS)	624_5ML	MDL	65(2)	ND	ND	ND	ND	ND
Zinc	7440-66-6	mg/L	Metals (ICP)	6010B	MRL	2.96	0.0069 J B	0.0095 J B	0.0096 J B	0.010 B	0.0045 J B

Reg 1 T.O.G.S. 1.1.1 Surface Water Standards C Streams.

Bold = Value indicates reported concentration exceeds applicable water quality standard.
B = Compound was found in the blank and sample.
GV = Guidance Value
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
(1) = Applies to the sum of 1,2-, 1,3- and 1,4-Dichlorobenzene.
(2) = Applies to the sum of m-, o- and p-Xylene.
* = 11 ug/L, when hardness is less than or equal to 75 ppm; 1,100 ug/L when hardness is greater than 75 ppm
MDL = Method Detection Limit
MRL = Method Reporting Limit
ND = Not Detected
--- = No Existing Standard
b = Result Detected in the USB