SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

4 Blanchard Road, P.O. Box 85A
Cumberland Center, Maine 04021
(207) 829-5016
FAX (207) 829-5692

Fac/Perm/Co ID #	Date	Doc ID#
44-06	10/10/2011	DIN 15339

FAX COVER PAGE

TO: SHERRI COGHILL

CC: JIM GIAUQUE

FROM: GUY COTE

DATE: 2/23/99

SUBJECT: CHAMPION - GA WEST

TOTAL PAGES (INCLUDING COVER): 14

FOR INFORMATION OR TRANSMISSION PROBLEMS CALL (207) 829-5016

MESSAGE/SPECIAL INSTRUCTIONS:

SHERRI - ENCLOSED ARE REVISED APPENDICES FOR LINER ANALYSIS. THE HELP MODEL RUN FOR GA-EAST COVERED IS WITH A SOIL LINER. THE RESULTS SHOW THE SOIL CAP WILL REDUCE INFILTRATION BY 72%. ALSO ENCLOSED IS A NEW MASS BALANCE SHEET. PLEASE CALL ME OR JIM WITH ANY QUESTIONS.

Guy Cote

FAXFORM.DOC
January 26, 1999

B-2 LEAKAGE THROUGH CAP (6A-East)

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**                                                                          **
**                                                                          **
**                                                                          **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE               **
**                   HELP MODEL VERSION 3.05a  (5 JUNE 1996)                **
**                   DEVELOPED BY ENVIRONMENTAL LABORATORY                  **
**                     USAE WATERWAYS EXPERIMENT STATION                    **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY             **
**                                                                          **
**                                                                          **
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PRECIPITATION DATA FILE:      g:\cpc\nc\6a-west\help\CANTON2.D4
TEMPERATURE DATA FILE:        g:\cpc\nc\6a-west\help\CANTON2.D7
SOLAR RADIATION DATA FILE:    g:\cpc\nc\6a-west\help\CANTON2.D13
EVAPOTRANSPIRATION DATA:      g:\cpc\nc\6a-west\help\CANTON2.D11
SOIL AND DESIGN DATA FILE:    g:\cpc\nc\6a-west\help\covered.D10
OUTPUT DATA FILE:             g:\cpc\nc\6a-west\help\covered.OUT


TIME:  14: 6     DATE:   2/23/1999


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     TITLE:  CHAMPION - LANDFILL 6A EAST - LEAKAGE THROUGH CAP

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
              COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                  LAYER  1
                                  --------

                     TYPE 1 - VERTICAL PERCOLATION LAYER
                         MATERIAL TEXTURE NUMBER  12
          THICKNESS                    =      12.00   INCHES
          POROSITY                     =       0.4710 VOL/VOL
          FIELD CAPACITY               =       0.3420 VOL/VOL
          WILTING POINT                =       0.2100 VOL/VOL
          INITIAL SOIL WATER CONTENT   =       0.3702 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.499999987000E-04 CM/SEC
        NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  4.20
                 FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.
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LAYER 2

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16

THICKNESS	=	24.00	INCHES
POROSITY	=	0.4270	VOL/VOL
FIELD CAPACITY	=	0.4180	VOL/VOL
WILTING POINT	=	0.3670	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4270	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999987000E-04	CM/SEC

LAYER 3

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 21

THICKNESS	=	12.00	INCHES
POROSITY	=	0.3970	VOL/VOL
FIELD CAPACITY	=	0.0320	VOL/VOL
WILTING POINT	=	0.0130	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0547	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000012000	CM/SEC
SLOPE	=	5.00	PERCENT
DRAINAGE LENGTH	=	250.0	FEET

LAYER 4

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	12.00	INCHES
POROSITY	=	0.4000	VOL/VOL
FIELD CAPACITY	=	0.3600	VOL/VOL
WILTING POINT	=	0.2800	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.139999997000E-05	CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	960.00	INCHES

POROSITY	=	0.4000	VOL/VOL
FIELD CAPACITY	=	0.3600	VOL/VOL
WILTING POINT	=	0.2800	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3624	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.139999997000E-05	CM/SEC

LAYER 6

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 21

THICKNESS	=	15.00	INCHES
POROSITY	=	0.3970	VOL/VOL
FIELD CAPACITY	=	0.0320	VOL/VOL
WILTING POINT	=	0.0130	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0320	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000012000	CM/SEC
SLOPE	=	5.00	PERCENT
DRAINAGE LENGTH	=	100.0	FEET

LAYER 7

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.06	INCHES
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.199999996000E-12	CM/SEC
FML PINHOLE DENSITY	=	1.00	HOLES/ACRE
FML INSTALLATION DEFECTS	=	1.00	HOLES/ACRE
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 8

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	48.00	INCHES
POROSITY	=	0.4710	VOL/VOL
FIELD CAPACITY	=	0.3420	VOL/VOL
WILTING POINT	=	0.2100	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4710	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999987000E-04	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE #12 WITH A GOOD STAND OF GRASS, A SURFACE SLOPE OF 5.% AND A SLOPE LENGTH OF 250. FEET.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	12.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	4.443	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	5.652	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	2.520	INCHES
INITIAL SNOW WATER		0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	391.157	INCHES
TOTAL INITIAL WATER	=	391.157	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM ASHEVILLE NORTH CAROLINA

STATION LATITUDE	=	35.26	DEGREES
MAXIMUM LEAF AREA INDEX	=	3.00	
START OF GROWING SEASON (JULIAN DATE)	=	96	
END OF GROWING SEASON (JULIAN DATE)	=	298	
EVAPORATIVE ZONE DEPTH	=	12.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	7.60	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	71.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	75.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	84.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	77.00	%

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR ASHEVILLE NORTH CAROLINA

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
3.28	3.52	4.27	3.34	3.52	3.28
4.48	4.23	3.00	2.65	2.69	3.05

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR ASHEVILLE NORTH CAROLINA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
36.80	39.10	46.40	55.70	63.30	69.80
73.20	72.60	66.90	56.00	46.40	39.30

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR ASHEVILLE NORTH CAROLINA
AND STATION LATITUDE = 35.26 DEGREES

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 15

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	3.08	3.43	3.81	3.13	4.04	3.51
	4.03	3.94	2.52	2.24	2.86	3.14
STD. DEVIATIONS	1.33	1.85	2.32	1.66	1.36	1.47
	1.52	1.79	1.45	1.26	2.00	1.73
RUNOFF						
TOTALS	0.270	0.355	0.113	0.028	0.089	0.038
	0.039	0.105	0.049	0.032	0.169	0.071
STD. DEVIATIONS	0.384	0.852	0.153	0.042	0.139	0.093
	0.054	0.253	0.108	0.061	0.286	0.099
EVAPOTRANSPIRATION						
TOTALS	1.136	1.503	2.536	2.868	3.608	3.510
	3.566	2.994	2.263	1.525	1.057	0.788
STD. DEVIATIONS	0.248	0.345	0.390	1.021	1.084	1.059
	1.224	0.739	0.868	0.725	0.308	0.169
PERCOLATION/LEAKAGE THROUGH LAYER 2						
TOTALS	1.9094	1.7467	1.5212	0.7448	0.4442	0.1129
	0.2655	0.5553	0.2574	0.4374	1.3177	1.7228

STD. DEVIATIONS	1.1452	1.4680	1.7401	0.8384	0.6878	0.1759
	0.4527	0.9598	0.4918	0.7735	1.4903	1.1076

LATERAL DRAINAGE COLLECTED FROM LAYER 3

TOTALS	1.4451	1.2864	1.1280	0.5294	0.3224	0.0622
	0.1877	0.4027	0.2090	0.3220	0.9801	1.2119
STD. DEVIATIONS	0.9503	1.2285	1.4440	0.6214	0.5470	0.1060
	0.3496	0.7379	0.4191	0.6396	1.1981	0.8348

PERCOLATION/LEAKAGE THROUGH LAYER 4

TOTALS	0.5512	0.4513	0.3838	0.2419	0.1216	0.0509
	0.0684	0.1289	0.0812	0.1147	0.3309	0.4353
STD. DEVIATIONS	0.2415	0.2836	0.3172	0.2761	0.1486	0.0764
	0.0956	0.2107	0.1081	0.1515	0.2998	0.2942

LATERAL DRAINAGE COLLECTED FROM LAYER 6

TOTALS	0.1324	0.0858	0.0861	0.1170	0.1781	0.2145
	0.2595	0.2619	0.2355	0.2390	0.2429	0.1998
STD. DEVIATIONS	0.0925	0.0450	0.0718	0.0937	0.1259	0.1402
	0.1365	0.1083	0.0761	0.0901	0.0876	0.1076

PERCOLATION/LEAKAGE THROUGH LAYER 8

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	0.0864	0.0947	0.0665	0.0401	0.0213	0.0064
	0.0094	0.0296	0.0060	0.0258	0.0625	0.0726
STD. DEVIATIONS	0.0654	0.0750	0.0719	0.0451	0.0337	0.0107
	0.0190	0.0495	0.0114	0.0514	0.0759	0.0558

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	0.1377	0.1351	0.1074	0.0521	0.0307	0.0061
	0.0179	0.0383	0.0206	0.0307	0.0965	0.1155
STD. DEVIATIONS	0.0903	0.1296	0.1373	0.0611	0.0520	0.0104
	0.0333	0.0702	0.0412	0.0608	0.1178	0.0794

DAILY AVERAGE HEAD ON TOP OF LAYER 7

AVERAGES	0.0050	0.0036	0.0033	0.0046	0.0068	0.0084
	0.0099	0.0100	0.0093	0.0091	0.0095	0.0076
STD. DEVIATIONS	0.0035	0.0019	0.0027	0.0037	0.0048	0.0055
	0.0052	0.0041	0.0030	0.0034	0.0034	0.0041

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 15

	INCHES		CU. FEET	PERCENT
PRECIPITATION	39.73	(4.479)	144205.4	100.00
RUNOFF	1.357	(1.1615)	4927.69	3.417
EVAPOTRANSPIRATION	27.354	(2.9096)	99296.37	68.858
PERCOLATION/LEAKAGE THROUGH LAYER 2	11.03539	(3.61451)	40058.453	27.77875
AVERAGE HEAD ON TOP OF LAYER 2	0.043	(0.015)		
LATERAL DRAINAGE COLLECTED FROM LAYER 3	8.08698	(2.90405)	29355.730	20.35689
PERCOLATION/LEAKAGE THROUGH LAYER 4	2.96008	(0.83737)	10745.104	7.45125
AVERAGE HEAD ON TOP OF LAYER 4	0.066	(0.024)		
LATERAL DRAINAGE COLLECTED FROM LAYER 6	2.25252	(0.81143)	8176.633	5.67013
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.00039	(0.00013)	1.410	0.00098
AVERAGE HEAD ON TOP OF LAYER 7	0.007	(0.003)		
CHANGE IN WATER STORAGE	0.674	(1.7772)	2447.55	1.697

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FINAL WATER STORAGE AT END OF YEAR 15

LAYER	(INCHES)	(VOL/VOL)
1	4.1239	0.3437
2	10.2480	0.4270
3	0.4812	0.0401
4	4.8000	0.4000
5	358.5281	0.3735
6	0.4822	0.0321
7	0.0000	0.0000
8	22.6080	0.4710
SNOW WATER	0.000	

APPENDIX C

MASS BALANCE ANALYSIS CALCULATION

Champion International Corporation
Area 6A West
Mass Balance Calculation for 2L Standard

GIVEN:

Watershed Area (Acres)	38	
Landfill Area- Open (Acres)	15	
Landfill Area Closed (Acres)	14	
Precipitation Recharge (in/yr)	9	HELP Model (Groundwater Recharge)
Landfill Leakage Rate-open (cf/ac/yr)	4.67	HELP Model (Leakage through liner - 6A-West)
Landfill Leakage Rate-closed (cf/ac/yr)	1.4	HELP Model (Leakage through cap - 6A-East)

Groundwater Recharge throughout watershed less landfill area (cf/yr) 294030

Leakage from landfill (cf/yr) 90

Determine concentration at Bowen Branch:

Concentration(Bowen Branch)=((Concentration(Lab)*Leakage Rate)/(GW Recharge + Leakage Rate))

Chemical	Standard (mg/l)	Laboratory Result (mg/l)		Estimated Concentration at Bowen Branch (mg/l)	Standard Met
Acetone	0.7	ND	1	1.5E-04	ok
Acrylamide (propenamide)	0.00001	ND	1	1.5E-04	Exceeded
Arsenic	0.05		1.71	5.2E-04	ok
Barium	2		0.112	Below Standard	ok
Benzene	0.001	ND	0.05	7.6E-06	ok
Boron	0.32	ND	0.2	Below Standard	ok
Bromoform (tribromomethane)	0.00019	ND	0.05	7.6E-06	ok
Butylbenzyl phthalate	0.1	ND	0.01	Below Standard	ok
Cadmium	0.005		0.04	1.2E-05	ok
Carbofuran	0.038		NT		
Carbon tetrachloride	0.0003	ND	0.05	7.6E-06	ok
Chlordane	2.70E-05	ND	0.004	6.1E-07	ok
Chloride	250		490	1.5E-01	ok
Chlorobenzene	0.05	ND	0.05	7.6E-06	ok
Chloroform (trichloromethane)	0.00019	ND	0.05	7.6E-06	ok
2-Chlorophenol	0.0001	ND	0.01	1.5E-06	ok
Chromium	0.05	ND	0.05	7.6E-06	ok
Cis-1,2 dichloroethene	0.07	ND	0.05	Below Standard	ok
Coliform organisms (total)	1		6225	2	ok
Color (Color Units)	15		1607	4.9E-01	ok
Copper	1	ND	0.01	Below Standard	ok
Cyanide	0.154		0.004	Below Standard	ok
2,4-D (2,4-dichlorophenoxy acetic acid)	0.07	ND	0.012	Below Standard	ok
1,2-Dibromo-3-chloropropane	2.50E-05	ND	0.05	7.6E-06	ok
Dichlorodifluoromethane (Freon-12; Halon)	1.4	ND	0.05	Below Standard	ok
1,1-Dichloroethane	0.7	ND	0.05	Below Standard	ok
1,2-Dichloroethane (ethylene dichloride)	0.00038	ND	0.05	7.6E-06	ok
1,1 Dichloroethylene (vinylidene chloride)	0.007	ND	0.05	7.6E-06	ok
1,2-Dichloropropane	0.00056	ND	0.05	7.6E-06	ok
Di-n-butyl (or dibutyl) phthalate (DBP)	0.7	ND	0.01	Below Standard	ok
Diethylphthalate (DEP)	5	ND	0.01	Below Standard	ok
Di(2-ethylhexyl) phthalate (DEHP)	0.003	ND	0.01	1.5E-06	ok
Di n octyl phthalate	0.14	ND	0.01	Below Standard	ok
P-dioxane (1,4-diethylene dioxide)	0.007		NT		
Dioxin	2.2E-10	ND	1.00E-09	1.5E-13	ok
Dissolved solids (total)	500		1,100	3.4E-01	ok
Diundecyl phthalate (Santicizer 711)	0.14		NT		
Endrin	0.002	ND	0.0012	Below Standard	ok
Epichlorohydrin (1-chloro-2,3-epoxypropane)	0.00364	ND	0.025	3.8E-06	ok
Ethylbenzene	0.029	ND	0.05	7.6E-06	ok
Ethylene dibromide (EDB; 1,2-dibromoethane)	4.00E-07	ND	0.00001	1.5E-09	ok

NOTES:
1. ND - Not Detected above indicated reporting limit
2. Initial concentration for "Not Detected" compounds set at one-half of the reporting limit.

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Sevee Maher Engineers

Chemical	Standard (mg/l)		Laboratory Result (mg/l)	Estimated Concentration at Bowen Branch (mg/l)	Standard Met
Ethylene glycol	7	ND	10	1.5E-03	ok
Fluorene	0.28	ND	0.01	Below Standard	ok
Fluoride	2		1.6	Below Standard	ok
Foaming agents	0.5		NT		
Gross alpha (adjusted) particle activity (excluding radium-226 and uranium)	15 pCi/l		NT		
Heptachlor	8.00E-06	ND	0.001	1.5E-07	ok
Heptachlor epoxide	4.00E-06	ND	0.016	2.4E-06	ok
Heptane	2.1	ND	0.025	Below Standard	ok
Hexachlorobenzene (perchlorobenzene)	2.00E-05	ND	0.01	1.5E-06	ok
N-hexane	0.42	ND	0.025	Below Standard	ok
Iron	0.3		0.47	1.4E-04	ok
Lead	0.015		0.009	Below Standard	ok
Lindane	0.0002	ND	0.001	1.5E-07	ok
Manganese	0.05		7.1	2.2E-03	ok
Mercury	0.0011	ND	0.0005	Below Standard	ok
Metadichlorobenzene (1,3-dichlorobenzene)	0.62	ND	0.01	Below Standard	ok
Methoxychlor	0.036	ND	0.01	Below Standard	ok
Methylene chloride (dichloromethane)	0.005	ND	0.1	1.5E-05	ok
Methyl ethyl ketone (MEK; 2-butanone)	0.17	ND	1	1.5E-04	ok
Methyl tert-butyl ether (MTBE)	0.2	ND	0.025	Below Standard	ok
Naphthalene	0.021	ND	0.01	Below Standard	ok
Nickel	0.1		0.12	3.7E-05	ok
Nitrate	10	ND	0.2	Below Standard	ok
Nitrite	1		0.05	Below Standard	ok
Orthodichlorobenzene (1,2-dichlorobenzene)	0.62	ND	0.05	Below Standard	ok
Oxamyl	0.175		NT		
Paradichlorobenzene	0.075	ND	0.05	Below Standard	ok
Pentachlorophenol	0.0003	ND	0.05	7.6E-06	ok
pH	6.5 - 8.5		7.7		ok
Phenanthrene	0.21	ND	0.01	Below Standard	ok
Phenol	0.3		0.026	Below Standard	ok
Radium-226 and radium-228 (combined)	5 pCi/l		NT		
Selenium	0.05	ND	0.005	Below Standard	ok
Silver	0.018		0.1	3.0E-05	ok
Styrene (ethenylbenzene)	0.1	ND	0.05	Below Standard	ok
Sulfate	250		660	2.0E-01	ok
Tetrachloroethylene (perchloroethylene; PCE)	0.0007	ND	0.05	7.6E-06	ok
Toluene (methylbenzene)	1		0.054	Below Standard	ok
Toxaphene	3.10E-05	ND	0.0024	3.7E-07	ok
2,4,5-TP (Silvex)	0.05	ND	0.002	Below Standard	ok
Trans-1,2-dichloroethene	0.07	ND	0.05	Below Standard	ok
1,1,1-Trichloroethane (methyl chloroform)	0.2	ND	0.05	Below Standard	ok
Trichloroethylene (TCE)	0.0028	ND	0.05	7.6E-06	ok
Trichlorofluoromethane	2.1	ND	0.05	Below Standard	ok
Vinyl chloride (chloroethylene)	1.50E-05	ND	0.1	1.5E-05	equal
Xylenes (o-, m-, and p-)	0.53	ND	0.05	Below Standard	ok
Zinc	2.1		0.04	Below Standard	ok

NOTES:
1 ND Not Detected above indicated reporting limit
2 Initial concentration for "Not Detected" compounds set at one-half of the reporting limit.