

Appendix 7-2
Leachate Monitoring Data obtained at the
southern edge of SENT landfill near the Fill Bank Site

Leachate Monitoring Records (Groundwater Quality)

December 2000

Location		MW1-5	MW1-6	MW1-7	MW1-8	MW1-9	MW1-10	MW1-11	MW1-12	MW1-13
Date		7-Dec	6-Dec	6-Dec	6-Dec	6-Dec	6-Dec	6-Dec	6-Dec	6-Dec
Ground water level (mPD)	m	3.04	1.32	1.36	1.40	1.33	1.31	1.38	1.28	1.41
pH (Field)		6.53	6.67	8.08	7.86	7.77	7.63	7.51	7.54	8.39
Temperature (Field)	°C	26.4	26.5	26.0	25.0	25.9	26.1	26.2	25.1	26.3
pH Value @ 25°C		6.1	6.5	7.3	7.8	7.6	7.3	7.4	7.4	7.3
Sulfate	mg/L	211	1310	2420	2570	2010	2340	2340	2190	1970
Cadmium - Filtered	ug/L	1.4	<2	<2	<2	<2	<2	<2	<2	<2
Copper - Filtered	ug/L	1	<10	12	10	<10	<10	<10	<10	<10
Nickel - Filtered	ug/L	5	<10	<10	<10	<10	<10	<10	<10	22
Lead - Filtered	ug/L	<1	<10	<10	<10	<10	<10	<10	<10	<10
Zinc - Filtered	ug/L	600	60	20	20	10	<10	10	20	10
Ammonia as N	mg/L	<0.1	1.4	4.7	2.9	<0.1	0.1	7.3	3.9	0.4
Nitrite as N	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	0.37	0.27	<0.01	<0.01	0.01
Total Phosphorus	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Chemical Oxygen Demand	mg/L	9	17	<10	<10	<10	<10	<10	<10	<10

March 2001

Location		MW1-5	MW1-6	MW1-7	MW1-8	MW1-9	MW1-10	MW1-11	MW1-12	MW1-13
Date		5-Mar	5-Mar	5-Mar	5-Mar	5-Mar	5-Mar	5-Mar	5-Mar	5-Mar
Ground water level (mPD)	m	2.90	1.43	1.57	1.53	1.55	1.48	1.48	1.45	1.48
pH (Field)		5.75	6.64	8.35	9.23	7.69	7.38	7.36	7.34	7.32
Temperature (Field)	°C	26.1	26.4	25.7	23.7	23.9	24.4	25.6	25.4	25.9
pH Value @ 25°C		6.1	6.5	7.2	7.9	7.7	7.4	7.4	7.3	7.3
Sulfate	mg/L	220	1720	1300	2860	2860	2970	1600	3000	2970
Cadmium - Filtered	ug/L	1.6	<2	<2	<2	<2	<2	<2	<2	<2
Copper - Filtered	ug/L	2	<10	<10	<10	<10	<10	<10	<10	<10
Nickel - Filtered	ug/L	2	<10	<10	<10	<10	<10	<10	<10	10
Lead - Filtered	ug/L	<1	<10	<10	<10	<10	<10	<10	<10	<10
Zinc - Filtered	ug/L	560	30	10	10	20	<10	10	<10	<10
Ammonia as N	mg/L	0.1	0.8	4.4	2.5	0.1	0.2	11.2	4.2	0.5
Nitrite as N	mg/L	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	0.31	0.23	0.03	<0.01	<0.01
Total Phosphorus	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand	mg/L	3	10	<10	<10	<10	<10	<10	<10	<10

June 2001

Location		MW1-5	MW1-6	MW1-7	MW1-8	MW1-9	MW1-10	MW1-11	MW1-12	MW1-13
Date		19-Jun	19-Jun	14-Jun	14-Jun	14-Jun	14-Jun	14-Jun	14-Jun	14-Jun
Ground water level (mPD)	m	2.11	2.15	2.63	2.62	3.18	2.57	2.58	2.48	2.52
pH (Field)		5.61	6.46	7.25	7.94	7.50	7.25	7.24	7.42	7.07
Temperature (Field)	°C	27.3	29.8	27.1	25.2	26.1	25.7	26.2	27.6	26.9
pH Value @ 25°C		6.1	6.3	7.3	7.9	7.7	7.4	7.4	7.4	7.3
Sulfate	mg/L	130	1490	2200	2400	2200	2400	2100	2300	2000
Cadmium	ug/L	1.2	<2	<2	<2	<2	<2	<2	<2	<2
Copper	ug/L	<1	60	<10	<10	<10	<10	<10	<10	<10
Nickel	ug/L	4	<10	<10	<10	<10	<10	12	<10	<10
Lead	ug/L	<1	<10	<10	<10	<10	<10	<10	<10	<10
Zinc	ug/L	430	60	16	16	19	13	21	14	<10
Ammonia as N	mg/L	0.1	1.1	5.0	3.0	0.4	0.4	12.0	5.0	0.5
Nitrite as N	mg/L	0.02	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	0.01
Total Phosphorus	mg/L	<0.1	<0.1	0.2	0.1	<0.1	<0.1	0.1	0.2	<0.1
Chemical Oxygen Demand	mg/L	4	<10	<10	<10	<10	<10	<10	<10	<10

September 2001

Location		MW1-5	MW1-6	MW1-7	MW1-8	MW1-9	MW1-10	MW1-11	MW1-12	MW1-13
Date		12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	10-Sep	10-Sep
Ground water level (mPD)	m	2.10	2.43	2.28	2.55	2.57	2.53	2.49	2.59	2.64
pH (Field)		6.33	6.78	7.59	8.02	7.71	6.75	7.57	7.4	6.85
Temperature (Field)	°C	28.6	28.6	28.2	26.9	28.3	27.5	28.2	26.7	28.9
pH Value @ 25°C		6.1	6.2	7	7.6	7.4	7.1	7.1	7.3	7.2
Sulfate	mg/L	220	480	1250	2640	1800	1300	1500	1990	1750
Cadmium	ug/L	0.3	<2	<2	<2	<2	<2	<2	<2	<2
Copper	ug/L	1	<10	10	13	12	13	12	11	10
Nickel	ug/L	2	<10	10	10	13	<10	17	<10	<10
Lead	ug/L	<1	<10	<10	<10	<10	<10	<10	<10	<10
Zinc	ug/L	186	51	<10	<10	<10	<10	11	<10	<10
Ammonia as N	mg/L	0.2	1.3	5.0	3.0	1.0	0.8	6.0	4.7	0.6
Nitrite as N	mg/L	0.02	0.08	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Phosphorus	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Chemical Oxygen Demand	mg/L	10	20	40	20	<10	10	20	20	20

(Date 3-1-01)