

Table E-6
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

Location Code	Hydraulic Position	Chloride	Sulfate	Nitrate + Nitrite-N	Ammonia	Bicarbonate Alkalinity*	Carbonate Alkalinity*	Phenols	Phosphate	Silica	Sulfide
WNW0301	UP(2)	107	368	2.3	<0.05	222	<1.0	0.006	NA	NA	NA
WNW0301	UP(6)	81.0	NA	2.7	<0.05	226	<1.0	NA	0.23	9.4	< 1.0
WNW0401	UP(2)	286	24.6	5.6	<0.05	179	<1.0	0.006	NA	NA	NA
WNW0401	UP(6)	451	21.7	7.6	<0.05	139	<1.0	NA	0.14	6.6	< 1.0
WNW0403	UP(2)	193	35.2	8.7	<0.05	133	<1.0	<0.005	NA	NA	NA
WNW0403	UP(6)	147	19.5	12	<0.05	110	<1.0	NA	0.095	5.0	< 1.0
WNW0706	UP(2)	6.4	103	0.42	<0.05	206	<1.0	<0.005	NA	NA	NA
WNW0706	UP(6)	1.2	81.9	0.65	<0.05	133	<1.0	NA	0.25	3.3	< 1.0
WNWNB1S	UP(2)	48.8	16.1	13	<0.05	238	<1.0	0.005	NA	NA	NA
WNWNB1S	UP(6)	53.4	25.8	6.7	<0.05	105	<1.0	NA	<0.050	6.8	< 1.0
WNW0201	DOWN - B(2)	206	37.7	1.0	<0.05	181	<1.0	0.009	NA	NA	NA
WNW0201	DOWN - B(6)	360	30.2	1.3	<0.05	162	<1.0	NA	<0.050	4.5	< 1.0
WNW0305	DOWN - B(2)	204	32.4	0.21	0.10	233	<1.0	0.006	NA	NA	NA
WNW0305	DOWN - B(6)	233	18.6	0.26	0.32	207	<1.0	NA	0.017	8.3	1.4
WNW0307	DOWN - B(2)	125	34.8	0.32	0.10	182	<1.0	0.006	NA	NA	NA
WNW0307	DOWN - B(6)	NR	NA	0.44	0.14	157	<1.0	NA	0.12	6.9	1.1
WNW0603	DOWN - B(2)	2.7	120	0.66	<0.05	420	<1.0	<0.005	NA	NA	NA
WNW0603	DOWN - B(6)	7.8	164	1.3	<0.05	342	<1.0	NA	0.13	9.8	1.3
WNW8613A	DOWN - B(2)	126	320	1.6	<0.05	193	<1.0	<0.005	NA	NA	NA
WNW8613A	DOWN - B(6)	79.5	21.3	2.1	<0.05	182	<1.0	NA	0.58	7.7	< 1.0
WNW8613B	DOWN - B(2)	100	188	2.4	<0.05	100	<1.0	<0.005	NA	NA	NA
WNW8613B	DOWN - B(6)	91.0	44.8	3.2	<0.05	72.5	<1.0	NA	1.2	3.3	< 1.0
WNW8613C	DOWN - B(2)	14.5	219	0.90	<0.05	156	<1.0	<0.005	NA	NA	NA
WNW8613C	DOWN - B(6)	5.5	32.6	2.9	<0.05	144	<1.0	NA	0.66	6.0	< 1.0
WNW008	DOWN - C(2)	140	60.0	0.21	<0.05	270	<1.0	<0.005	NA	NA	NA
WNW008	DOWN - C(6)	94.2	45.8	0.24	<0.05	265	<1.0	NA	0.050	5.6	1.2
WNW0103	DOWN - C(2)	2,120	52.8	< 0.05	0.54	174	<1.0	0.008	NA	NA	NA
WNW0103	DOWN - C(6)	< 173	27.1	< 0.05	1.34	196	283	NA	1.3	< 130	1.4
WNW0104	DOWN - C(2)	167	33.7	1.8	<0.03	210	<1.0	<0.001	NA	NA	NA
WNW0104	DOWN - C(6)	179	35.5	1.9	2.01	327	<1.0	NA	<0.050	12	< 1.0
WNW0111	DOWN - C(2)	13.0	67.4	< 0.05	0.30	231	<1.0	<0.001	NA	NA	NA
WNW0111	DOWN - C(6)	19.6	50.3	0.88	0.27	34.4	<1.0	NA	< 0.10	7.8	< 1.0
WNW0203	DOWN - C(2)	784	146	1.5	<0.05	208	<1.0	<0.005	NA	NA	NA
WNW0203	DOWN - C(6)	600	54.8	1.7	<0.05	250	<1.0	NA	<0.050	4.0	< 1.0
WNW0205	DOWN - C(2)	581	186	1.2	<0.05	156	<1.0	<0.005	NA	NA	NA
WNW0205	DOWN - C(6)	1,160	70.0	0.66	<0.05	192	<1.0	NA	<0.050	2.5	< 1.0
WNW0406	DOWN - C(2)	22.3	130	0.92	0.10	212	<1.0	0.006	NA	NA	NA
WNW0406	DOWN - C(6)	25.0	73.2	0.60	0.18	215	<1.0	NA	<0.050	9.6	< 1.0
WNW0408	DOWN - C(2)	219	31.0	0.75	<0.03	174	<1.0	<0.001	NA	NA	NA
WNW0408	DOWN - C(6)	282	34.8	1.4	0.12	338	<1.0	NA	<0.050	13	< 1.0
WNW0501	DOWN - C(2)	151	27.4	0.70	<0.03	161	<1.0	<0.001	NA	NA	NA
WNW0501	DOWN - C(6)	161	36.3	5.6	2.27	302	<1.0	NA	<0.050	12	< 1.0
WNW0502	DOWN - C(2)	129	33.4	4.5	<0.03	190	<1.0	<0.001	NA	NA	NA
WNW0502	DOWN - C(6)	174	35.2	6.2	1.04	301	<1.0	NA	<0.050	12	< 1.0
WNW0602	DOWN - C(2)	59.8	211	< 0.05	0.09	206	<1.0	0.006	NA	NA	NA
WNW0602	DOWN - C(6)	106	42.8	< 0.05	0.08	113	<1.0	NA	<0.050	5.8	< 1.0

NR - Not reported. These results have not been reported because the data validation process indicated the data were not-reliable.

NA - Not available.

* as mgCaCo₃/L

Table E-6 (continued)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

Location Code	Hydraulic Position	Calcium		Magnesium		Sodium		Potassium		Iron		Manganese		Aluminum	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
WNW0301	UP(2)	110	115	12.6	10.5	22.1	24.6	3.32	1.51	22.0	0.976	0.604	0.024	NA	NA
WNW0301	UP(6)	102	110	11.4	9.87	22.9	24.3	3.76	1.37	16.7	<0.040	0.411	0.065	9.43	<0.090
WNW0401	UP(2)	128	132	13.9	13.6	106	101	1.36	1.35	0.664	0.119	0.033	0.026	NA	NA
WNW0401	UP(6)	175	181	19.1	19.9	155	160	1.87	1.90	0.752	0.129	0.027	0.020	0.240	<0.200
WNW0403	UP(2)	125	137	10.5	9.84	39.1	39.5	1.85	1.23	5.76	0.130	0.092	0.013	NA	NA
WNW0403	UP(6)	125	125	8.83	8.89	28.8	27.8	1.44	1.54	1.31	0.042	0.086	0.008	0.790	<0.200
WNW0706	UP(2)	89.1	88.2	18.1	11.5	2.99	4.96	4.50	0.948	47.3	1.01	0.968	0.017	NA	NA
WNW0706	UP(6)	69.3	76.3	10.7	10.8	3.65	2.13	1.79	<1.00	4.28	<0.040	0.230	<0.005	9.60	<0.200
WNWNB1S	UP(2)	94.4	104	10.9	11.5	28.1	26.3	1.11	1.12	0.350	<0.015	0.006	<0.003	NA	NA
WNWNB1S	UP(6)	37.9	44.4	4.68	5.37	55.6	45.1	1.16	1.23	0.630	<0.040	0.012	<0.005	0.358	0.099
WNW0201	DOWN - B(2)	102	103	10.1	10.1	84.0	83.5	4.16	4.23	0.330	<0.015	0.339	0.335	NA	NA
WNW0201	DOWN - B(6)	131	145	13.1	14.8	136	146	4.58	5.04	0.046	<0.040	0.383	0.445	<0.090	<0.090
WNW0305	DOWN - B(2)	88.8	98.8	9.88	10.8	94.4	104	2.37	2.57	1.05	<0.015	1.19	1.28	NA	NA
WNW0305	DOWN - B(6)	115	127	12.5	13.3	111	117	3.25	3.25	0.616	<0.040	2.36	2.58	0.359	<0.090
WNW0307	DOWN - B(2)	69.4	71.4	7.78	7.84	76.2	78.2	1.94	1.90	2.35	0.450	0.424	0.238	NA	NA
WNW0307	DOWN - B(6)	90.8	86.6	9.93	9.10	67.4	74.3	2.30	2.31	8.79	0.311	1.66	0.413	1.22	<0.090
WNW0603	DOWN - B(2)	138	149	23.0	24.3	6.11	6.84	2.11	1.46	3.67	0.048	0.419	0.194	NA	NA
WNW0603	DOWN - B(6)	153	151	21.8	21.5	8.10	6.69	2.20	1.95	2.62	<0.040	0.533	0.381	1.46	<0.200
WNW8613A	DOWN - B(2)	86.5	90.8	16.6	15.7	16.9	18.6	3.34	2.08	11.8	0.259	0.765	0.014	NA	NA
WNW8613A	DOWN - B(6)	90.2	93.8	15.6	15.1	20.6	19.8	3.30	2.69	4.06	<0.040	0.431	0.015	4.45	<0.090
WNW8613B	DOWN - B(2)	58.4	70.6	10.6	10.7	30.9	37.5	3.50	2.76	15.6	0.238	0.766	0.075	NA	NA
WNW8613B	DOWN - B(6)	62.7	70.4	9.69	10.1	23.0	24.3	3.50	3.10	121	3.26	0.775	0.265	5.96	<0.090
WNW8613C	DOWN - B(2)	60.6	61.8	13.1	10.6	3.17	3.99	4.02	3.73	13.6	0.058	0.451	0.065	NA	NA
WNW8613C	DOWN - B(6)	91.3	58.9	22.9	9.57	14.3	15.4	5.71	3.36	58.2	0.553	1.82	0.029	20.7	0.627
WNW008	DOWN - C(2)	115	NR	14.4	NR	72.2	NR	1.33	1.89	0.042	0.164	2.24	10.6	NA	NA
WNW008	DOWN - C(6)	104	109	13.3	13.7	61.0	61.2	1.59	1.82	0.117	<0.040	0.827	0.832	<0.090	<0.090
WNW0103	DOWN - C(2)	232	237	10.4	10.7	855	874	3.30	3.59	0.147	0.033	0.294	0.290	NA	NA
WNW0103	DOWN - C(6)	NR	40.1	<1.00	1.28	NR	713	<1.00	1.13	0.918	1.25	0.114	0.431	0.378	0.468
WNW0104	DOWN - C(2)	101	96.2	15.6	14.8	52.6	52.7	2.32	1.65	1.33	0.006	0.097	0.079	NA	NA
WNW0104	DOWN - C(6)	111	114	16.0	15.7	60.3	65.7	2.20	2.15	0.292	0.018	0.081	0.088	0.237	0.042
WNW0111	DOWN - C(2)	76.7	73.2	11.1	10.8	19.6	19.1	5.42	5.52	0.359	0.555	4.94	3.91	NA	NA
WNW0111	DOWN - C(6)	64.1	62.8	8.99	8.89	10.1	10.1	4.73	4.39	0.529	0.212	2.56	2.48	0.049	0.040
WNW0203	DOWN - C(2)	150	150	14.0	13.7	397	395	4.38	4.26	2.00	0.283	0.132	0.118	NA	NA
WNW0203	DOWN - C(6)	173	183	15.6	16.3	319	336	5.27	5.26	2.40	0.279	0.078	0.038	0.762	<0.090
WNW0205	DOWN - C(2)	32.2	33.1	4.23	4.17	426	418	3.04	2.83	1.49	0.267	0.028	0.010	NA	NA
WNW0205	DOWN - C(6)	114	118	14.9	15.2	743	814	5.71	5.74	0.633	0.243	0.031	0.032	<0.090	<0.090
WNW0406	DOWN - C(2)	97.4	102	13.1	11.8	10.5	10.9	2.79	2.00	8.58	0.176	2.70	1.30	NA	NA
WNW0406	DOWN - C(6)	93.4	98.3	13.0	13.2	14.2	15.3	3.05	2.45	2.35	0.202	3.63	3.71	2.27	0.278
WNW0408	DOWN - C(2)	94.7	92.8	18.9	18.8	67.2	66.6	2.84	2.84	1.88	0.037	0.098	0.086	NA	NA
WNW0408	DOWN - C(6)	152	153	23.6	23.3	87.8	88.1	3.31	3.29	0.616	0.047	0.199	0.055	0.406	0.032
WNW0501	DOWN - C(2)	91.0	91.3	14.3	13.1	43.3	44.2	3.68	1.43	5.82	0.009	0.131	0.008	NA	NA
WNW0501	DOWN - C(6)	104	111	14.6	15.1	48.1	52.6	2.28	2.11	2.27	0.089	0.082	0.023	1.68	0.031
WNW0502	DOWN - C(2)	89.8	88.3	13.3	13.2	41.7	41.2	1.71	1.41	5.63	0.040	0.062	0.004	NA	NA
WNW0502	DOWN - C(6)	119	111	17.1	15.6	51.6	47.5	2.35	1.95	2.41	0.038	0.033	0.004	0.372	0.043
WNW0602	DOWN - C(2)	95.6	96.8	12.7	12.4	16.1	15.9	1.98	1.46	3.76	0.100	4.57	3.58	NA	NA
WNW0602	DOWN - C(6)	104	114	12.7	13.2	54.5	56.1	2.12	2.04	4.37	0.189	5.15	4.54	2.48	0.252

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.
NA - Not available.

Table E-6 (continued)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

Location Code	Hydraulic Position	Chloride	Sulfate	Nitrate + Nitrite-N	Ammonia	Bicarbonate Alkalinity*	Carbonate Alkalinity*	Phenols	Phosphate	Silica	Sulfide
WNW0604	DOWN - C(2)	7.6	144	< 0.05	1.03	186	<1.0	<0.005	NA	NA	NA
WNW0604	DOWN - C(6)	16.5	65.4	<0.05	1.24	168	<1.0	NA	<0.050	5.6	< 1.0
WNW8605	DOWN - C(2)	76.4	91.4	< 0.05	1.30	353	<1.0	<0.001	NA	NA	NA
WNW8605	DOWN - C(6)	24.3	46.7	< 0.05	0.10	381	<1.0	NA	<0.050	9.7	< 1.0
WNW8606	DOWN - C(2)	536	240	1.3	< 0.05	157	<1.0	0.010	NA	NA	NA
WNW8606	DOWN - C(6)	1,070	65.7	0.81	<0.05	185	<1.0	NA	<0.050	2.5	< 1.0
WNW8607	DOWN - C(2)	7.9	99.7	1.3	< 0.05	212	<1.0	<0.005	NA	NA	NA
WNW8607	DOWN - C(6)	24.0	168	0.98	<0.05	199	<1.0	NA	0.073	4.5	< 1.0
WNW8608	DOWN - C(2)	30.3	73.6	0.76	0.86	188	<1.0	0.007	NA	NA	NA
WNW8608	DOWN - C(6)	18.4	71.6	0.32	0.76	186	<1.0	NA	0.056	5.6	< 1.0
WNW8609	DOWN - C(2)	41.5	39.6	4.4	< 0.05	267	<1.0	0.005	NA	NA	NA
WNW8609	DOWN - C(6)	45.6	32.9	3.6	<0.05	250	<1.0	NA	<0.050	12	< 1.0
WNDMPNE	DOWN - D(2)	79.8	61.6	1.2	0.09	184	<1.0	<0.005	NA	NA	NA
WNDMPNE	DOWN - D(6)	73.5	37.4	0.90	<0.05	186	<1.0	NA	0.061	6.6	< 1.0
WNGSEEP	DOWN - D(2)	77.6	87.2	0.89	< 0.05	144	<1.0	<0.005	NA	NA	NA
WNGSEEP	DOWN - D(6)	60.1	52.0	0.79	<0.05	148	<1.0	NA	<0.050	5.0	< 1.0
WNW0105	DOWN - D(2)	173	38.4	1.1	<0.05	230	<1.0	<0.005	NA	NA	NA
WNW0105	DOWN - D(6)	170	32.6	1.3	<0.05	220	<1.0	NA	0.11	8.1	< 1.0
WNW0106	DOWN - D(2)	151	48.0	0.18	< 0.05	269	<1.0	<0.005	NA	NA	NA
WNW0106	DOWN - D(6)	135	32.7	0.22	<0.05	246	<1.0	NA	0.24	6.7	1.5
WNW0116	DOWN - D(2)	155	90.0	1.6	< 0.05	245	<1.0	0.007	NA	NA	NA
WNW0116	DOWN - D(6)	18.6	27.3	1.9	<0.05	200	<1.0	NA	0.10	8.2	1.2
WNW0207	DOWN - D(2)	2.7	33.6	< 0.05	0.16	493	<1.0	<0.005	NA	NA	NA
WNW0207	DOWN - D(6)	5.1	30.8	< 0.05	0.24	400	<1.0	NA	0.050	14	< 1.0
WNW0601	DOWN - D(2)	51.4	353	0.11	< 0.05	100	<1.0	<0.005	NA	NA	NA
WNW0601	DOWN - D(6)	41.9	129	0.15	<0.05	104	<1.0	NA	0.39	3.0	< 1.0
WNW0605	DOWN - D(2)	51.7	120	0.51	< 0.05	148	<1.0	<0.005	NA	NA	NA
WNW0605	DOWN - D(6)	39.8	52.5	0.08	< 0.05	125	<1.0	NA	<0.050	4.5	< 1.0
WNW0801	DOWN - D(2)	257	40.0	1.4	< 0.05	186	<1.0	<0.005	NA	NA	NA
WNW0801	DOWN - D(6)	213	28.1	1.2	< 0.05	182	<1.0	NA	<0.050	7.8	< 1.0
WNW0802	DOWN - D(2)	13.6	39.8	< 0.05	< 0.05	140	<1.0	<0.005	NA	NA	NA
WNW0802	DOWN - D(6)	39.1	22.8	0.07	< 0.05	85.1	<1.0	NA	<0.050	10	< 1.0
WNW0803	DOWN - D(2)	68.8	292	< 0.05	< 0.05	414	<1.0	<0.005	NA	NA	NA
WNW0803	DOWN - D(6)	117	129	0.33	< 0.05	299	<1.0	NA	<0.050	12	< 1.0
WNW0804	DOWN - D(2)	65.6	305	0.15	0.09	334	<1.0	<0.005	NA	NA	NA
WNW0804	DOWN - D(6)	41.4	22.2	0.16	< 0.05	240	<1.0	NA	0.084	5.6	< 1.0
WNW0905	DOWN - D(2)	<1.0	530	< 0.05	0.09	395	<1.0	<0.005	NA	NA	NA
WNW0905	DOWN - D(6)	9.1	519	< 0.05	0.07	432	<1.0	NA	<0.050	15	< 1.0
WNW8603	DOWN - D(2)	207	29.6	2.1	< 0.05	220	<1.0	<0.005	NA	NA	NA
WNW8603	DOWN - D(6)	196	26.4	2.4	< 0.05	210	<1.0	NA	<0.050	11	< 1.0
WNW8604	DOWN - D(2)	201	33.3	7.6	< 0.03	245	<1.0	<0.001	NA	NA	NA
WNW8604	DOWN - D(6)	234	34.8	1.5	1.44	372	<1.0	NA	<0.050	13	< 1.0
WNW8612	DOWN - D(2)	79.3	86.0	< 0.05	< 0.05	179	<1.0	<0.005	NA	NA	NA
WNW8612	DOWN - D(6)	81.8	60.8	< 0.05	< 0.05	234	<1.0	NA	<0.050	12	< 1.0

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.

NA - Not available.

* as mgCaCO₃/L

Table E-6 (concluded)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

Location Code	Hydraulic Position	Calcium		Magnesium		Sodium		Potassium		Iron		Manganese		Aluminum	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
WNW0604	DOWN - C(2)	64.2	70.6	10.6	11.4	6.46	7.16	0.905	0.910	5.17	4.54	17.0	18.0	NA	NA
WNW0604	DOWN - C(6)	68.8	76.3	10.7	11.5	7.37	6.56	1.03	1.05	4.09	4.85	18.6	20.1	<0.090	<0.090
WNW8605	DOWN - C(2)	99.5	98.1	16.2	16.4	69.4	68.2	8.51	8.68	4.34	4.23	9.64	9.67	NA	NA
WNW8605	DOWN - C(6)	74.6	77.6	12.0	12.6	48.4	50.0	7.34	7.98	3.49	3.00	8.36	8.76	0.043	0.046
WNW8606	DOWN - C(2)	33.5	33.9	4.28	4.27	385	400	2.63	2.69	0.330	0.255	0.018	0.006	NA	NA
WNW8606	DOWN - C(6)	98.9	105	13.5	14.1	687	708	5.22	5.84	0.216	0.174	0.026	0.022	<0.200	<0.200
WNW8607	DOWN - C(2)	101	104	12.6	12.3	9.50	9.30	3.52	3.59	0.083	<0.015	0.006	0.006	NA	NA
WNW8607	DOWN - C(6)	115	117	14.5	14.9	14.5	18.3	2.33	2.33	0.111	<0.040	0.005	<0.005	0.200	<0.200
WNW8608	DOWN - C(2)	80.0	NR	9.84	NR	10.1	NR	1.97	NR	1.17	NR	10.6	NR	NA	NA
WNW8608	DOWN - C(6)	77.6	79.8	9.26	9.61	14.4	13.8	3.12	3.14	1.02	0.430	8.08	8.82	0.405	<0.200
WNW8609	DOWN - C(2)	109	108	14.8	14.0	13.7	12.5	1.38	1.31	0.020	<0.015	0.009	0.010	NA	NA
WNW8609	DOWN - C(6)	103	119	14.2	15.4	14.7	14.9	1.44	1.64	0.042	<0.040	0.008	0.008	0.090	<0.090
WNDMPNE	DOWN - D(2)	86.4	87.1	10.8	10.8	26.7	26.8	1.47	1.59	0.330	0.280	0.730	0.757	NA	NA
WNDMPNE	DOWN - D(6)	82.6	88.1	11.3	11.8	29.2	29.8	1.92	1.98	0.354	0.111	0.426	0.425	0.254	<0.090
WNGSEEP	DOWN - D(2)	92.5	99.2	12.8	13.2	20.0	20.6	1.51	1.61	0.070	<0.020	<0.005	<0.005	NA	NA
WNGSEEP	DOWN - D(6)	78.7	84.2	11.8	12.4	24.0	24.6	1.61	1.81	0.172	<0.040	0.006	<0.005	0.124	<0.090
WNW0105	DOWN - D(2)	125	127	20.0	20.0	45.5	45.5	1.51	1.24	10.4	0.020	3.48	3.38	NA	NA
WNW0105	DOWN - D(6)	127	130	20.5	21.7	52.4	54.1	1.34	1.40	18.5	<0.040	3.53	3.67	0.200	<0.090
WNW0106	DOWN - D(2)	130	138	20.0	19.0	43.7	47.4	2.33	1.49	8.74	<0.015	5.74	5.54	NA	NA
WNW0106	DOWN - D(6)	131	126	21.4	20.1	48.4	51.3	3.11	2.84	14.2	1.96	6.73	6.42	7.10	3.58
WNW0116	DOWN - D(2)	111	118	15.3	15.0	58.8	61.4	2.44	1.66	7.16	0.254	1.56	0.921	NA	NA
WNW0116	DOWN - D(6)	119	126	16.6	16.9	71.9	73.0	2.14	1.88	4.77	0.184	1.71	1.22	1.68	0.236
WNW0207	DOWN - D(2)	152	157	27.0	27.2	7.12	7.57	1.51	1.24	4.05	0.642	2.17	2.16	NA	NA
WNW0207	DOWN - D(6)	134	146	22.3	23.5	7.66	6.65	1.35	1.39	1.85	1.70	2.04	2.29	<0.200	<0.200
WNW0601	DOWN - D(2)	51.2	57.6	10.1	8.30	16.6	18.5	2.63	0.699	28.0	0.957	0.431	0.113	NA	NA
WNW0601	DOWN - D(6)	57.9	61.9	9.02	8.33	23.9	24.7	2.56	1.15	23.5	1.27	0.508	0.065	10.4	0.614
WNW0605	DOWN - D(2)	64.9	70.6	11.1	10.5	21.8	23.4	2.22	1.43	6.67	0.193	0.099	0.010	NA	NA
WNW0605	DOWN - D(6)	57.7	62.2	8.47	9.00	23.5	24.2	1.78	1.71	2.16	0.045	0.051	0.009	0.867	<0.200
WNW0801	DOWN - D(2)	121	115	13.2	13.1	63.4	63.3	1.73	1.69	0.780	<0.020	0.713	0.643	NA	NA
WNW0801	DOWN - D(6)	126	132	16.1	16.8	75.6	78.5	2.13	2.22	0.554	<0.040	0.804	0.831	0.378	<0.090
WNW0802	DOWN - D(2)	45.1	51.1	3.58	3.75	5.95	7.67	1.53	0.710	1.72	<0.020	0.165	0.108	NA	NA
WNW0802	DOWN - D(6)	39.1	49.6	3.63	4.39	10.3	12.1	<1.00	<1.00	0.945	0.171	0.326	0.179	0.728	0.220
WNW0803	DOWN - D(2)	206	204	36.5	35.8	23.2	22.9	1.45	1.47	0.470	0.030	0.370	0.342	NA	NA
WNW0803	DOWN - D(6)	170	185	33.8	36.0	25.4	25.9	1.83	1.58	0.850	<0.040	0.401	0.425	0.853	<0.090
WNW0804	DOWN - D(2)	147	152	18.3	17.0	23.0	25.2	3.61	2.18	14.2	<0.020	1.70	1.26	NA	NA
WNW0804	DOWN - D(6)	100	107	12.2	13.0	30.3	31.7	1.88	1.69	1.41	<0.040	0.072	0.005	0.919	<0.090
WNW0905	DOWN - D(2)	207	210	75.7	74.4	13.1	12.7	3.79	3.73	1.75	1.71	0.518	0.509	NA	NA
WNW0905	DOWN - D(6)	221	262	78.7	86.9	12.6	13.0	3.79	4.25	2.21	2.44	0.569	0.671	0.250	<0.090
WNW8603	DOWN - D(2)	128	133	21.2	21.6	49.3	49.9	2.08	2.08	<0.015	<0.015	0.007	0.008	NA	NA
WNW8603	DOWN - D(6)	130	133	23.1	23.4	59.6	59.0	2.23	2.51	<0.040	<0.040	0.010	0.012	<0.090	<0.090
WNW8604	DOWN - D(2)	114	116	18.5	19.1	51.6	52.2	2.28	2.03	0.027	0.005	0.022	0.024	NA	NA
WNW8604	DOWN - D(6)	135	134	23.0	22.4	57.7	57.9	2.48	2.70	0.029	0.023	0.042	0.038	0.034	0.042
WNW8612	DOWN - D(2)	124	123	25.8	24.8	14.9	14.4	1.08	1.04	0.850	0.430	0.108	0.111	NA	NA
WNW8612	DOWN - D(6)	114	127	25.8	28.1	16.0	16.4	1.16	1.29	0.782	0.570	0.115	0.123	0.090	<0.090

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.
NA - Not available.

Table E - 7
Groundwater Quality Parameters (mg/L) for the Till-Sand Unit

Location Code	Hydraulic Position	Chloride	Sulfate	Nitrate + Nitrite-N	Ammonia	Bicarbonate Alkalinity*	Carbonate Alkalinity*	Phenols	Phosphate	Silica	Sulfide
WNW0302	UP(2)	328	37.0	0.88	<0.05	268	<1.0	0.005	NA	NA	NA
WNW0302	UP(6)	NR	NA	1.0	<0.05	245	<1.0	NA	<0.010	13	< 1.0
WNW0402	UP(2)	242	30.0	< 0.05	<0.05	233	<1.0	<0.005	NA	NA	NA
WNW0402	UP(6)	262	31.5	< 0.05	<0.05	211	<1.0	NA	0.12	12	< 1.0
WNW0404	UP(2)	<1.0	29.3	0.06	<0.05	112	<1.0	0.006	NA	NA	NA
WNW0404	UP(6)	1.5	19.3	0.07	<0.05	105	<1.0	NA	0.067	8.5	< 1.0
WNW0701	UP(2)	<1.0	266	< 0.05	0.18	190	<1.0	<0.005	NA	NA	NA
WNW0701	UP(6)	1.1	481	0.09	0.14	194	<1.0	NA	0.095	10	< 1.0
WNW0202	DOWN - B(2)	12.4	50.4	< 0.05	0.49	<1.0	23.8	<0.005	NA	NA	NA
WNW0202	DOWN - B(6)	35.5	30.4	< 0.05	0.52	<1.0	134	NA	<0.050	8.6	< 1.0
WNW0204	DOWN - B(2)	85.9	44.0	< 0.05	0.14	165	<1.0	<0.005	NA	NA	NA
WNW0204	DOWN - B(6)	91.6	41.1	< 0.05	0.14	138	<1.0	NA	<0.050	10	< 1.0
WNW0206	DOWN - C(2)	76.0	187	< 0.05	0.07	199	<1.0	<0.005	NA	NA	NA
WNW0206	DOWN - C(6)	80.9	33.1	< 0.05	0.07	158	<1.0	NA	0.70	11	< 1.0
WNW0208	DOWN - C(2)	<1.0	56.0	< 0.05	0.16	145	<1.0	<0.005	NA	NA	NA
WNW0208	DOWN - C(6)	1.0	23.1	< 0.05	0.15	132	<1.0	NA	0.084	9.6	1.2

NR - Not reported. These results have not been reported because the data validation process indicated that the data were unreliable.
 NA - Not available.
 * as mgCaCO₃/L

Table E - 7 (concluded)
Groundwater Quality Parameters (mg/L) for the Till-Sand Unit

Location Code	Hydraulic Position	Calcium		Magnesium		Sodium		Potassium		Iron		Manganese		Aluminum	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
WNW0302	UP(2)	167	175	21.3	22.0	99.9	102	1.95	2.01	0.130	<0.015	0.035	0.032	NA	NA
WNW0302	UP(6)	202	216	25.2	26.5	121	125	1.96	2.04	0.253	<0.040	0.034	0.031	0.127	<0.090
WNW0402	UP(2)	153	166	27.4	27.9	30.7	31.7	1.70	1.69	1.17	1.16	0.137	0.140	NA	NA
WNW0402	UP(6)	166	161	30.0	29.6	40.8	39.8	1.92	1.76	2.98	1.07	0.162	0.140	1.16	<0.090
WNW0404	UP(2)	35.5	36.1	5.40	5.08	8.62	8.34	0.887	0.668	0.703	<0.015	0.018	0.003	NA	NA
WNW0404	UP(6)	35.1	34.3	5.36	5.38	9.33	8.11	<1.00	0.846	0.313	0.249	0.007	0.006	0.520	0.210
WNW0701	UP(2)	149	153	27.0	26.1	14.8	15.1	1.73	1.26	4.15	0.086	0.360	0.299	NA	NA
WNW0701	UP(6)	203	206	35.6	35.8	18.8	18.0	1.80	1.54	2.99	0.459	0.465	0.403	2.78	<0.200
WNW0202	DOWN - B(2)	42.2	52.6	1.30	1.02	22.3	24.0	9.09	10.3	0.220	<0.015	0.004	<0.003	NA	NA
WNW0202	DOWN - B(6)	214	35.8	<1.00	<1.00	24.7	23.7	16.7	9.17	0.115	<0.040	0.006	<0.005	0.284	<0.090
WNW0204	DOWN - B(2)	78.3	76.8	17.4	17.0	11.9	12.0	2.00	1.93	1.19	0.094	0.099	0.082	NA	NA
WNW0204	DOWN - B(6)	82.9	87.2	17.5	18.7	13.6	12.7	1.91	1.96	0.463	0.125	0.095	0.096	0.210	<0.200
WNW0206	DOWN - C(2)	78.0	81.6	18.3	17.9	11.4	11.9	2.12	1.06	6.15	0.320	0.238	0.172	NA	NA
WNW0206	DOWN - C(6)	95.0	95.2	21.5	20.6	14.0	12.8	2.37	1.15	10.2	0.735	0.335	0.224	6.03	<0.200
WNW0208	DOWN - C(2)	36.5	37.9	8.97	9.12	15.2	15.3	0.944	0.938	0.280	<0.015	0.034	0.029	NA	NA
WNW0208	DOWN - C(6)	39.4	41.3	9.28	9.87	17.0	16.5	1.15	<1.00	1.06	<0.040	0.062	0.051	1.10	<0.200

NR - Not reported. These results have not been reported because the data validation process indicated that the data were unreliable.
NA - Not available.

Table E-8
Groundwater Quality Parameters (mg/L) for the Unweathered Lavery Till Unit

Location Code	Hydraulic Position	Chloride	Sulfate	Nitrate + Nitrite-N	Ammonia	Bicarbonate Alkalinity*	Carbonate Alkalinity*	Phenols	Phosphate	Silica	Sulfide
WNW0405	UP(2)	36.6	220	1.1	<0.05	202	<1.0	<0.005	NA	NA	NA
WNW0405	UP(6)	70.9	122	0.35	<0.05	231	<1.0	NA	<0.050	6.8	<1.0
WNW0109	DOWN - B(2)	<1.0	112	0.08	<0.05	226	<1.0	<0.005	NA	NA	NA
WNW0109	DOWN - B(6)	2.0	79.3	0.14	<0.05	211	<1.0	NA	0.067	7.8	1.5
WNW0110	DOWN - B(2)	<1.0	101	<0.05	<0.05	245	<1.0	<0.005	NA	NA	NA
WNW0110	DOWN - B(6)	<1.0	84.1	0.08	<0.05	244	<1.0	NA	<0.050	7.8	1.5
WNW0115	DOWN - B(2)	3.4	130	<0.05	<0.05	109	<1.0	<0.005	NA	NA	NA
WNW0115	DOWN - B(6)	2.7	79.5	<0.05	0.07	148	<1.0	NA	0.32	6.4	1.2
WNW0702	DOWN - B(2)	<1.0	306	0.27	<0.05	220	<1.0	<0.005	NA	NA	NA
WNW0702	DOWN - B(6)	1.1	305	0.12	<0.05	218	<1.0	NA	0.24	8.6	<1.0
WNW0703	DOWN - B(2)	<1.0	314	<0.05	<0.05	190	<1.0	<0.005	NA	NA	NA
WNW0703	DOWN - B(6)	1.2	211	<0.05	<0.05	180	<1.0	NA	<0.050	8.5	<1.0
WNW0704	DOWN - B(2)	2.0	143	<0.05	0.10	521	<1.0	<0.005	NA	NA	NA
WNW0704	DOWN - B(6)	1.3	87.8	<0.05	0.34	424	<1.0	NA	<0.050	4.6	<1.0
WNW0705	DOWN - B(2)	4.3	43.0	<0.05	<0.05	195	<1.0	<0.005	NA	NA	NA
WNW0705	DOWN - B(6)	22.2	36.9	<0.05	<0.05	215	<1.0	NA	0.089	8.3	<1.0
WNW0707	DOWN - B(2)	8.0	46.8	0.52	<0.05	159	<1.0	<0.005	NA	NA	NA
WNW0707	DOWN - B(6)	7.6	40.7	0.45	<0.05	126	<1.0	NA	0.51	4.3	<1.0
WNW0904	DOWN - B(2)	4.5	219	0.18	0.07	244	<1.0	<0.005	NA	NA	NA
WNW0904	DOWN - B(6)	6.9	146	0.19	<0.05	232	<1.0	NA	0.46	8.3	<1.0
WNW1101B	DOWN - B(2)	1.1	424	0.50	<0.05	290	<1.0	<0.005	NA	NA	NA
WNW1101B	DOWN - B(6)	1.0	88.0	0.51	<0.05	253	<1.0	NA	<0.050	9.5	<1.0
WNW1106B	DOWN - B(2)	<1.0	342	0.07	<0.05	262	<1.0	<0.005	NA	NA	NA
WNW1106B	DOWN - B(6)	1.2	156	<0.05	<0.05	293	<1.0	NA	0.19	11	<1.0
WNW1109B	DOWN - B(2)	<1.0	61.0	<0.05	0.08	192	<1.0	0.007	NA	NA	NA
WNW1109B	DOWN - B(6)	1.3	66.5	<0.05	0.08	186	<1.0	NA	<0.050	12	<1.0
WNW0107	DOWN - C(2)	3.4	176	0.1	<0.05	276	<1.0	<0.005	NA	NA	NA
WNW0107	DOWN - C(6)	3.5	211	0.11	<0.05	272	<1.0	NA	0.067	7.9	1.5
WNW0108	DOWN - C(2)	3.8	220	0.37	0.06	215	<1.0	<0.005	NA	NA	NA
WNW0108	DOWN - C(6)	1.2	162	0.50	<0.05	202	<1.0	NA	0.045	8.1	1.4
WNW0114	DOWN - C(2)	8.6	89.0	0.18	<0.05	225	<1.0	<0.005	NA	NA	NA
WNW0114	DOWN - C(6)	11.9	44.2	1.2	<0.05	249	<1.0	NA	0.11	12	2.1
WNW0409	DOWN - C(2)	<1.0	66.8	0.21	<0.05	146	<1.0	0.005	NA	NA	NA
WNW0409	DOWN - C(6)	1.0	48.7	0.14	<0.05	121	<1.0	NA	0.45	8.3	1.1
WNW0910	DOWN - C(2)	8.3	856	0.12	0.69	335	<1.0	<0.005	NA	NA	NA
WNW0910	DOWN - C(6)	1.6	909	<0.05	0.30	337	<1.0	NA	0.074	11	<1.0
WNW1102B	DOWN - C(2)	1.0	61.0	0.13	<0.05	293	<1.0	<0.005	NA	NA	NA
WNW1102B	DOWN - C(6)	1.2	45.8	0.12	<0.05	282	<1.0	NA	<0.050	12	<1.0
WNW1103B	DOWN - C(2)	1.6	135	0.09	0.10	320	<1.0	<0.005	NA	NA	NA
WNW1103B	DOWN - C(6)	<1.0	87.6	0.09	<0.05	299	<1.0	NA	<0.050	12	<1.0
WNW1104B	DOWN - C(2)	2.8	324	0.55	<0.05	274	<1.0	0.005	NA	NA	NA
WNW1104B	DOWN - C(6)	1.1	93.1	<0.05	0.05	228	<1.0	NA	<0.050	9.7	<1.0
WNW1105A	DOWN - C(2)	<1.0	209	0.71	<0.05	204	<1.0	0.026	NA	NA	NA
WNW1105A	DOWN - C(6)	<1.0	247	0.23	0.27	193	<1.0	NA	<0.050	8.2	1.2
WNW1105B	DOWN - C(2)	<1.0	262	1.3	<0.05	219	<1.0	0.008	NA	NA	NA
WNW1105B	DOWN - C(6)	<1.0	317	0.49	0.08	201	<1.0	NA	0.064	8.8	1.2

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.

NA - Not available.

* as mgCaCO₃/L

Table E-8 (concluded)
Groundwater Quality Parameters (mg/L) for the Unweathered Lavery Till Unit

Location Code	Hydraulic Position	Calcium		Magnesium		Sodium		Potassium		Iron		Manganese		Aluminum	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
WNW0405	UP(2)	98.6	103	16.0	15.7	23.8	22.8	1.94	1.86	0.670	0.058	0.034	0.024	NA	NA
WNW0405	UP(6)	116	124	21.8	20.6	41.7	41.4	2.52	2.44	NR	1.15	0.074	NR	0.118	<0.090
WNW0109	DOWN - B(2)	73.8	83.6	19.4	17.7	16.7	18.3	1.67	1.53	1.99	<0.015	0.038	0.003	NA	NA
WNW0109	DOWN - B(6)	75.5	77.9	19.1	19.5	20.0	18.9	2.23	1.49	2.89	<0.040	0.046	0.031	2.57	<0.090
WNW0110	DOWN - B(2)	74.1	78.9	23.2	22.5	22.2	23.2	1.69	1.78	0.041	<0.015	0.004	0.003	NA	NA
WNW0110	DOWN - B(6)	75.1	69.4	22.2	20.6	24.0	25.0	1.74	1.72	<0.040	<0.040	<0.005	<0.005	<0.090	<0.090
WNW0115	DOWN - B(2)	87.4	83.6	15.3	12.1	15.4	16.5	3.74	1.72	13.6	0.655	0.187	0.013	NA	NA
WNW0115	DOWN - B(6)	68.5	64.2	17.0	13.5	16.4	17.8	5.68	2.84	24.7	1.99	0.289	0.103	15.1	3.66
WNW0702	DOWN - B(2)	133	143	29.9	30.6	39.8	41.3	2.31	2.42	0.255	0.015	0.010	0.005	NA	NA
WNW0702	DOWN - B(6)	124	135	28.4	30.7	43.6	45.4	2.14	2.18	0.505	<0.040	0.011	<0.005	0.418	<0.200
WNW0703	DOWN - B(2)	135	145	26.1	25.5	21.1	21.6	2.25	1.85	3.34	<0.015	0.050	<0.003	NA	NA
WNW0703	DOWN - B(6)	117	126	24.1	25.6	20.2	20.1	1.80	1.76	1.01	<0.040	0.097	0.067	0.730	<0.200
WNW0704	DOWN - B(2)	194	205	27.0	26.5	6.34	6.14	2.51	2.56	0.505	0.194	6.92	7.41	NA	NA
WNW0704	DOWN - B(6)	185	208	26.2	27.6	5.91	6.56	2.59	2.74	0.310	0.147	9.85	9.47	0.182	<0.090
WNW0705	DOWN - B(2)	65.0	75.7	9.38	9.52	3.24	3.53	1.31	0.890	3.04	<0.015	0.056	0.013	NA	NA
WNW0705	DOWN - B(6)	85.2	85.2	13.6	14.4	8.42	7.21	1.31	1.19	1.11	<0.040	0.315	0.377	0.891	<0.200
WNW0707	DOWN - B(2)	58.5	61.2	11.3	9.54	4.65	4.25	2.35	1.06	9.85	<0.015	0.212	0.050	NA	NA
WNW0707	DOWN - B(6)	50.0	54.1	8.87	8.42	6.55	5.41	2.29	1.31	8.19	0.041	0.124	0.010	5.92	<0.200
WNW0904	DOWN - B(2)	95.5	92.6	31.6	30.3	19.4	19.5	3.14	1.71	3.03	0.053	0.115	0.047	NA	NA
WNW0904	DOWN - B(6)	102	111	30.2	32.6	23.4	31.0	1.96	2.35	5.32	0.348	0.278	0.008	4.89	0.419
WNW1101B	DOWN - B(2)	114	128	36.5	40.1	30.2	32.2	3.29	3.70	0.093	<0.017	0.008	<0.005	NA	NA
WNW1101B	DOWN - B(6)	99.0	111	30.4	33.0	27.6	28.6	2.84	3.27	0.042	<0.040	0.008	0.016	<0.090	<0.090
WNW1106B	DOWN - B(2)	82.4	90.3	31.5	34.9	22.3	24.9	2.20	2.20	1.07	<0.030	0.031	0.003	NA	NA
WNW1106B	DOWN - B(6)	96.1	99.0	38.4	40.1	27.7	28.2	2.64	2.30	2.93	<0.040	0.052	0.038	2.45	<0.090
WNW1109B	DOWN - B(2)	59.7	59.8	18.8	18.3	12.1	12.0	1.56	1.50	0.450	<0.030	0.055	0.049	NA	NA
WNW1109B	DOWN - B(6)	55.7	58.5	17.8	19.3	11.9	11.3	1.47	1.44	0.771	<0.040	0.048	0.041	0.580	<0.090
WNW0107	DOWN - C(2)	132	135	25.3	27.7	18.1	17.9	2.31	2.34	0.025	<0.015	<0.003	<0.003	NA	NA
WNW0107	DOWN - C(6)	133	132	32.2	33.0	21.0	21.1	2.27	2.36	0.336	<0.040	0.023	0.006	0.265	<0.090
WNW0108	DOWN - C(2)	99.7	102	26.2	26.5	23.3	23.9	2.13	1.97	0.803	<0.015	0.076	0.049	NA	NA
WNW0108	DOWN - C(6)	92.0	102	23.8	25.7	22.4	23.1	1.90	1.92	0.424	<0.040	0.010	<0.005	0.338	<0.090
WNW0114	DOWN - C(2)	88.3	93.1	13.0	13.0	8.97	9.56	1.49	1.33	0.879	<0.015	0.015	<0.003	NA	NA
WNW0114	DOWN - C(6)	97.8	104	12.5	14.8	5.88	6.58	1.32	1.37	1.30	<0.040	0.028	0.005	0.317	<0.090
WNW0409	DOWN - C(2)	40.4	46.0	8.50	8.94	18.4	20.3	4.74	5.43	1.38	<0.015	0.020	<0.003	NA	NA
WNW0409	DOWN - C(6)	40.7	40.9	9.90	9.59	21.2	20.0	5.38	4.67	1.05	<0.040	0.016	<0.005	0.981	<0.090
WNW0910	DOWN - C(2)	172	182	93.0	97.5	35.8	38.1	12.4	12.4	4.01	0.254	0.393	0.453	NA	NA
WNW0910	DOWN - C(6)	205	250	94.6	110	43.7	47.2	10.3	10.5	0.279	0.125	0.340	0.237	<0.200	<0.090
WNW1102B	DOWN - C(2)	83.3	80.6	37.2	33.9	17.2	15.3	2.22	1.98	0.353	<0.017	0.015	0.009	NA	NA
WNW1102B	DOWN - C(6)	74.4	79.4	30.6	32.8	14.7	15.0	1.84	1.82	0.482	<0.040	0.009	<0.005	0.239	<0.090
WNW1103B	DOWN - C(2)	87.0	89.6	42.2	41.0	28.3	26.4	2.36	2.32	0.070	<0.017	0.016	0.013	NA	NA
WNW1103B	DOWN - C(6)	81.2	89.4	35.2	38.0	24.9	26.3	1.96	1.89	0.056	<0.040	<0.005	0.005	<0.090	<0.090
WNW1104B	DOWN - C(2)	73.2	25.7	24.0	8.40	25.2	9.01	1.78	0.602	0.057	<0.030	0.004	0.002	NA	NA
WNW1104B	DOWN - C(6)	68.6	79.1	23.6	26.1	25.6	26.3	1.50	1.70	<0.040	<0.040	0.012	0.028	<0.090	<0.090
WNW1105A	DOWN - C(2)	114	119	25.8	26.2	23.1	23.2	1.76	1.79	0.190	<0.030	0.020	0.002	NA	NA
WNW1105A	DOWN - C(6)	126	130	27.7	28.7	23.8	25.6	1.90	2.00	NR	<0.040	0.020	NR	<0.090	<0.090
WNW1105B	DOWN - C(2)	123	136	29.5	32.0	32.2	34.7	2.22	2.40	0.303	<0.030	0.010	0.003	NA	NA
WNW1105B	DOWN - C(6)	133	139	31.5	32.7	36.2	36.8	2.12	2.41	NR	<0.040	0.010	NR	<0.090	<0.090

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.
NA - Not available.

Table E - 9
Groundwater Quality Parameters (mg/L) for the Kent Recessional Sequence

Location Code	Hydraulic Position	Chloride	Sulfate	Nitrate + Nitrite-N	Ammonia	Bicarbonate Alkalinity*	Carbonate Alkalinity*	Phenols	Phosphate	Silica	Sulfide
WNW0901	UP(2)	13.6	4.7	< 0.05	0.75	204	<1.0	0.007	NA	NA	NA
WNW0901	UP(6)	10.2	2.1	< 0.05	0.53	172	<1.0	NA	0.056	9.7	< 1.0
WNW0902	UP(2)	20.0	2.8	< 0.05	0.55	202	<1.0	0.026	NA	NA	NA
WNW0902	UP(6)	22.2	2.2	< 0.05	0.51	193	<1.0	NA	<0.050	11	< 1.0
WNW1001	UP(2)	35.2	30.2	< 0.05	0.61	169	<1.0	<0.005	NA	NA	NA
WNW1001	UP(6)	29.9	3.5	< 0.05	0.54	171	<1.0	NA	0.072	9.7	< 1.0
WNW1008B	UP(2)	43.1	<1.0	< 0.05	0.39	189	<1.0	<0.005	NA	NA	NA
WNW1008B	UP(6)	32.4	2.2	< 0.05	0.36	161	<1.0	NA	<0.050	10	< 1.0
WNW0903	DOWN - B(2)	2.6	265	< 0.05	0.44	290	<1.0	0.011	NA	NA	NA
WNW0903	DOWN - B(6)	1.6	138	< 0.05	0.38	280	<1.0	NA	0.089	11	< 1.0
WNW1002	DOWN - B(2)	3.9	1200	< 0.05	0.78	478	<1.0	<0.005	NA	NA	NA
WNW1002	DOWN - B(6)	1.2	255	< 0.05	0.78	455	<1.0	NA	0.36	17	< 1.0
WNW1003	DOWN - B(2)	10.2	1700	< 0.05	0.72	266	<1.0	<0.005	NA	NA	NA
WNW1003	DOWN - B(6)	11.5	4.0	< 0.05	0.54	212	<1.0	NA	0.19	9.7	< 1.0
WNW1004	DOWN - B(2)	3.6	51.0	< 0.05	0.44	273	<1.0	0.007	NA	NA	NA
WNW1004	DOWN - B(6)	1.0	14.7	< 0.05	0.42	232	<1.0	NA	<0.050	13	< 1.0
WNW1101C	DOWN - B(2)	3.9	160	0.06	<0.05	189	<1.0	<0.005	NA	NA	NA
WNW1101C	DOWN - B(6)	1.2	34.2	< 0.05	0.05	198	<1.0	NA	0.29	7.7	< 1.0
WNW8610	DOWN - B(2)	<1.0	180	< 0.05	0.26	302	<1.0	0.005	NA	NA	NA
WNW8610	DOWN - B(6)	<1.0	151	< 0.05	0.21	259	<1.0	NA	0.43	11	< 1.0
WNW8611	DOWN - B(2)	5.0	409	0.11	<0.05	275	<1.0	<0.005	NA	NA	NA
WNW8611	DOWN - B(6)	1.2	246	0.15	<0.05	253	<1.0	NA	0.33	13	< 1.0

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.

NA - Not available.

* as mgCaCO₃/L

Table E - 9 (concluded)
1993 Groundwater Quality Parameters (mg/L) for the Kent Recessional Sequence

Location Code	Hydraulic Position	Calcium		Magnesium		Sodium		Potassium		Iron		Manganese		Aluminum	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
WNW0901	UP(2)	30.6	31.9	9.17	8.88	29.5	28.7	4.16	3.96	0.631	0.094	0.093	0.089	NA	NA
WNW0901	UP(6)	35.4	36.5	9.62	9.94	32.8	32.8	4.18	4.21	1.02	0.070	0.118	0.100	0.458	<0.090
WNW0902	UP(2)	45.1	57.6	15.0	18.5	30.3	28.2	2.54	2.74	0.668	0.348	0.094	0.052	NA	NA
WNW0902	UP(6)	41.1	44.0	13.0	13.9	31.6	32.9	3.23	3.40	0.516	0.356	0.081	0.082	<0.090	<0.090
WNW1001	UP(2)	30.5	28.3	8.87	7.84	42.2	42.9	4.08	3.04	3.90	0.260	0.105	0.055	NA	NA
WNW1001	UP(6)	32.1	34.1	8.40	8.77	46.8	49.0	2.80	2.73	0.588	0.398	0.072	0.056	0.123	<0.090
WNW1008B	UP(2)	32.8	32.2	8.25	12.7	37.0	39.8	3.06	3.18	1.01	0.494	0.095	0.085	NA	NA
WNW1008B	UP(6)	39.7	40.1	9.37	9.36	42.8	43.3	2.97	3.08	1.33	0.169	0.104	0.089	0.349	<0.090
WNW0903	DOWN - B(2)	70.0	71.7	34.2	33.7	38.9	39.0	4.59	3.49	3.18	0.118	0.200	0.160	NA	NA
WNW0903	DOWN - B(6)	70.0	83.6	29.9	36.5	45.9	45.5	3.35	3.48	1.31	0.255	0.157	0.159	0.463	<0.090
WNW1002	DOWN - B(2)	156	128	64.0	55.4	37.3	39.7	4.55	3.50	28.0	0.266	0.830	0.105	NA	NA
WNW1002	DOWN - B(6)	145	36.0	94.1	9.66	41.2	32.9	2.73	3.90	5.59	1.10	0.186	0.132	1.27	0.462
WNW1003	DOWN - B(2)	81.0	27.1	30.3	8.22	52.0	52.5	7.38	2.45	58.7	0.360	1.10	0.073	NA	NA
WNW1003	DOWN - B(6)	28.8	29.6	82.2	8.42	60.6	60.5	2.43	2.31	0.739	<0.040	0.119	0.110	0.387	<0.090
WNW1004	DOWN - B(2)	38.4	40.6	16.5	16.8	27.2	28.2	2.08	1.69	1.39	0.254	0.090	0.077	NA	NA
WNW1004	DOWN - B(6)	44.9	45.8	17.8	18.3	30.7	30.0	1.65	1.56	0.322	0.271	0.080	0.052	0.102	<0.090
WNW1101C	DOWN - B(2)	59.1	56.8	11.4	10.0	25.5	26.3	4.29	3.68	3.50	0.070	0.141	0.025	NA	NA
WNW1101C	DOWN - B(6)	56.8	61.8	9.55	10.2	27.6	29.7	3.10	3.09	1.10	<0.040	0.170	0.140	0.518	<0.090
WNW8610	DOWN - B(2)	38.9	28.7	33.4	32.5	69.4	68.8	5.70	5.47	1.14	0.059	0.049	0.028	NA	NA
WNW8610	DOWN - B(6)	57.9	37.6	48.3	46.6	75.2	79.8	6.06	5.57	13.2	0.087	0.360	0.026	4.63	<0.090
WNW8611	DOWN - B(2)	86.2	79.4	34.2	30.7	60.4	63.3	4.17	2.92	19.2	0.447	0.371	0.013	NA	NA
WNW8611	DOWN - B(6)	101	89.7	42.6	37.2	72.7	76.3	4.55	3.30	19.9	1.43	0.485	0.168	6.93	0.891

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.
 NA - Not available.

Table E - 10
Groundwater Quality Parameters (mg/L) for the Weathered Lavery Till Unit

Location Code	Hydraulic Position	Chloride	Sulfate	Nitrate + Nitrite-N	Ammonia	Bicarbonate Alkalinity*	Carbonate Alkalinity*	Phenols	Phosphate	Silica	Sulfide
WNW0908	UP(2)	3.4	3020	< 0.05	<0.05	282	<1.0	0.005	NA	NA	NA
WNW0908	UP(6)	4.6	1490	< 0.05	<0.05	269	<1.0	NA	0.11	10	< 1.0
WNW1005	UP(2)	6.2	107	< 0.05	<0.05	373	<1.0	<0.005	NA	NA	NA
WNW1005	UP(6)	2.4	15.5	< 0.05	<0.05	410	<1.0	NA	<0.050	15	< 1.0
WNW1008C	UP(2)	37.7	18.2	< 0.05	<0.05	222	<1.0	0.017	NA	NA	NA
WNW1008C	UP(6)	31.8	20.9	< 0.05	0.08	225	<1.0	NA	0.050	13	< 1.0
WNW0906	DOWN - B(2)	4.9	305	1.0	<0.05	255	<1.0	0.006	NA	NA	NA
WNW0906	DOWN - B(6)	5.6	61.1	< 0.05	<0.05	192	<1.0	NA	0.11	9.2	< 1.0
WNW0907	DOWN - B(2)	<1.0	240	< 0.05	<0.05	343	<1.0	0.022	NA	NA	NA
WNW0907	DOWN - B(6)	1.4	103	0.12	<0.05	298	<1.0	NA	<0.050	11	< 1.0
WNW1006	DOWN - B(2)	<1.0	1310	< 0.05	0.12	369	<1.0	0.008	NA	NA	NA
WNW1006	DOWN - B(6)	1.5	1260	< 0.05	0.12	346	<1.0	NA	<0.050	14	1.3
WNW1007	DOWN - B(2)	6.0	592	< 0.05	<0.05	313	<1.0	0.015	NA	NA	NA
WNW1007	DOWN - B(6)	3.3	23.8	< 0.05	<0.05	330	<1.0	NA	0.21	10	< 1.0
WNW1101A	DOWN - B(2)	1.3	133	0.14	<0.05	270	<1.0	<0.005	NA	NA	NA
WNW1101A	DOWN - B(6)	1.3	69.9	0.11	<0.05	237	<1.0	NA	<0.050	10	< 1.0
WNW1106A	DOWN - B(2)	1.0	200	< 0.05	0.05	293	<1.0	<0.005	NA	NA	NA
WNW1106A	DOWN - B(6)	2.6	123	< 0.05	<0.05	287	<1.0	NA	<0.050	12	< 1.0
WNW1108A	DOWN - B(2)	<1.0	556	0.34	<0.05	288	<1.0	<0.005	NA	NA	NA
WNW1108A	DOWN - B(6)	1.6	452	0.22	<0.05	282	<1.0	NA	<0.050	9.0	< 1.0
WNW1109A	DOWN - B(2)	<1.0	220	0.14	<0.05	233	<1.0	0.008	NA	NA	NA
WNW1109A	DOWN - B(6)	1.4	176	< 0.05	<0.05	237	<1.0	NA	<0.050	9.1	< 1.0
WNW0909	DOWN - C(2)	20.8	208	0.10	0.42	400	<1.0	0.014	NA	NA	NA
WNW0909	DOWN - C(6)	13.1	166	< 0.05	0.42	610	<1.0	NA	0.056	16	< 1.0
WNW1102A	DOWN - C(2)	1.5	200	< 0.05	<0.05	255	<1.0	<0.005	NA	NA	NA
WNW1102A	DOWN - C(6)	1.3	130	0.09	<0.05	248	<1.0	NA	<0.050	10	< 1.0
WNW1103A	DOWN - C(2)	2.1	260	< 0.05	<0.05	326	<1.0	<0.005	NA	NA	NA
WNW1103A	DOWN - C(6)	1.3	176	< 0.05	<0.05	317	<1.0	NA	<0.050	12	< 1.0
WNW1104A	DOWN - C(2)	1.0	220	0.10	<0.05	269	<1.0	<0.005	NA	NA	NA
WNW1104A	DOWN - C(6)	2.1	94.4	< 0.05	<0.05	228	<1.0	NA	<0.050	15	< 1.0
WNW1107A	DOWN - C(2)	7.1	588	0.22	0.06	511	<1.0	<0.005	NA	NA	NA
WNW1107A	DOWN - C(6)	5.9	307	< 0.05	0.18	496	<1.0	NA	<0.050	18	< 1.0
WNW1110A	DOWN - C(2)	5.2	520	0.18	<0.05	417	<1.0	0.007	NA	NA	NA
WNW1110A	DOWN - C(6)	2.6	394	0.24	<0.05	421	<1.0	NA	<0.050	12	< 1.0
WNW1111A	DOWN - C(2)	1.8	274	< 0.05	<0.05	397	<1.0	<0.005	NA	NA	NA
WNW1111A	DOWN - C(6)	1.1	171	< 0.05	<0.05	392	<1.0	NA	<0.050	13	< 1.0

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.

NA - Not available.

* as mgCaCO₃/L

Table E - 10 (concluded)
Groundwater Quality Parameters (mg/L) for the Weathered Lavery Till Unit

Location Code	Hydraulic Position	Calcium		Magnesium		Sodium		Potassium		Iron		Manganese		Aluminum	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
WNW0908	UP(2)	530	602	177	149	19.2	16.2	5.50	4.70	2.04	0.053	0.064	0.009	NA	NA
WNW0908	UP(6)	447	484	142	155	21.3	22.7	5.53	6.33	0.205	0.040	0.176	0.007	<0.090	<0.090
WNW1005	UP(2)	98.2	100	36.8	36.9	10.8	10.7	2.44	1.78	1.57	<0.025	0.053	0.027	NA	NA
WNW1005	UP(6)	113	119	39.0	40.0	11.4	10.8	1.98	1.89	0.710	0.058	0.086	0.087	0.505	<0.090
WNW1008C	UP(2)	68.8	75.5	17.6	18.1	12.2	12.5	0.740	0.955	0.100	<0.030	0.134	0.077	NA	NA
WNW1008C	UP(6)	73.4	80.8	17.3	18.7	13.6	13.7	<1.00	<1.00	0.263	0.065	0.159	0.190	0.310	<0.200
WNW0906	DOWN - B(2)	61.2	45.1	21.2	13.9	24.2	30.3	3.57	3.04	0.415	0.411	0.059	0.092	NA	NA
WNW0906	DOWN - B(6)	61.4	58.5	20.2	18.9	23.7	26.6	2.66	2.70	0.400	0.121	0.022	<0.005	0.322	0.218
WNW0907	DOWN - B(2)	100	105	39.0	38.1	10.0	9.58	1.71	1.98	<0.030	<0.030	0.019	0.023	NA	NA
WNW0907	DOWN - B(6)	100	106	39.5	40.1	10.6	9.39	2.02	2.25	0.049	<0.040	0.034	0.014	<0.200	<0.200
WNW1006	DOWN - B(2)	401	406	133	140	20.2	21.4	3.19	3.83	0.130	0.282	0.097	0.219	NA	NA
WNW1006	DOWN - B(6)	388	407	148	148	23.8	22.2	3.82	3.90	0.557	0.301	0.945	1.12	<0.090	<0.090
WNW1007	DOWN - B(2)	166	171	65.5	62.7	16.6	15.8	18.1	18.3	0.896	<0.025	0.025	0.005	NA	NA
WNW1007	DOWN - B(6)	135	160	48.2	57.4	16.0	17.9	NR	NR	1.70	1.54	0.173	0.332	1.43	1.35
WNW1101A	DOWN - B(2)	89.9	97.5	26.9	28.0	12.1	12.6	1.76	1.86	0.083	<0.017	0.021	0.016	NA	NA
WNW1101A	DOWN - B(6)	81.8	90.8	23.0	25.0	11.4	10.9	1.56	1.74	<0.040	<0.040	0.021	0.029	<0.090	<0.090
WNW1106A	DOWN - B(2)	92.5	89.1	36.8	36.1	11.1	10.4	2.38	2.30	0.053	<0.030	0.031	0.017	NA	NA
WNW1106A	DOWN - B(6)	96.9	109	37.3	40.0	12.3	11.2	2.63	2.64	0.158	<0.040	0.042	0.036	0.102	<0.090
WNW1108A	DOWN - B(2)	172	190	62.5	67.8	23.3	23.0	3.50	3.69	0.710	0.047	0.039	0.016	NA	NA
WNW1108A	DOWN - B(6)	189	190	69.8	66.9	19.0	23.1	3.97	4.49	1.26	<0.040	0.080	0.013	1.03	<0.090
WNW1109A	DOWN - B(2)	116	120	27.9	28.2	10.3	10.4	2.18	2.29	<0.030	<0.030	0.064	0.057	NA	NA
WNW1109A	DOWN - B(6)	109	118	28.6	29.8	11.6	11.2	2.40	2.40	0.171	<0.040	0.01	0.020	0.144	<0.090
WNW0909	DOWN - C(2)	132	141	36.9	38.7	15.4	16.1	3.28	3.15	2.28	0.783	1.74	1.84	NA	NA
WNW0909	DOWN - C(6)	231	262	54.2	57.3	8.64	8.91	2.54	2.54	10.7	9.39	6.04	6.41	0.83	<0.090
WNW1102A	DOWN - C(2)	113	120	40.5	41.4	9.92	10.2	2.54	2.61	0.077	<0.017	0.022	0.015	NA	NA
WNW1102A	DOWN - C(6)	96.2	114	33.0	37.3	9.29	8.54	2.15	2.47	0.049	<0.040	0.017	0.018	<0.090	<0.090
WNW1103A	DOWN - C(2)	142	146	54.9	53.5	14.3	13.8	2.61	2.57	0.140	<0.017	0.086	0.058	NA	NA
WNW1103A	DOWN - C(6)	116	126	44.2	47.8	13.2	13.6	2.27	2.42	0.178	<0.040	0.087	0.058	0.108	<0.090
WNW1104A	DOWN - C(2)	79.5	82.1	24.6	25.1	9.30	9.55	1.57	1.64	0.053	<0.030	0.005	0.006	NA	NA
WNW1104A	DOWN - C(6)	87.2	90.9	25.7	26.3	10.9	10.1	1.80	1.90	<0.040	<0.040	<0.005	0.012	<0.090	<0.090
WNW1107A	DOWN - C(2)	252	236	83.4	85.6	12.6	13.0	2.60	2.70	0.493	<0.030	4.84	5.20	NA	NA
WNW1107A	DOWN - C(6)	203	222	75.9	78.7	11.7	11.6	2.47	2.70	1.06	2.47	9.57	7.83	<0.090	<0.090
WNW1110A	DOWN - C(2)	150	144	97.5	95.7	27.5	27.8	3.74	3.71	0.093	<0.030	0.014	0.004	NA	NA
WNW1110A	DOWN - C(6)	161	183	99.1	106	29.2	29.8	3.92	4.03	0.104	<0.040	0.017	0.037	<0.090	<0.090
WNW1111A	DOWN - C(2)	144	150	66.0	65.5	20.1	19.8	3.12	3.14	0.113	<0.017	0.053	<0.005	NA	NA
WNW1111A	DOWN - C(6)	126	138	55.4	59.0	16.2	16.3	2.62	2.79	<0.040	<0.040	0.075	0.088	<0.090	<0.090

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.
NA - Not available.

Table E-11

**Typical Practical Quantitation Limits (PQLs) in $\mu\text{g/L}$ for Appendix IX
and Target Compound List Compounds**

COMPOUND	PQL	COMPOUND	PQL
<i>Volatiles</i>			
Acetone	10	Methacrylonitrile	5
Acetonitrile	100	Methyl bromide	10
Acrolein	5	Methyl chloride	10
Acrylonitrile	5	Methyl ethyl ketone	10
Allyl chloride	100	Methyl iodide	5
Benzene	10	Methyl methacrylate	5
Bromodichloromethane	10	4-Methyl-2-pentanone	10
Bromoform	10	Methylene bromide	5
Bromomethane	10	Methylene chloride	10
2-Butanone	10	Pentachloroethane	5
Carbon disulfide	10	2-Picoline	5
Carbon tetrachloride	10	Propionitrile	5
Chlorobenzene	10	Pyridine	30
Chlorodibromomethane	10	Styrene	10
Chloroethane	10	1,1,1,2-Tetrachloroethane	10
Chloroform	10	1,1,2,2-Tetrachloroethane	10
Chloromethane	10	Tetrachloroethylene	10
Chloroprene	5	Toluene	10
1,3-Dibromo-3-chloropropane	5	1,1,1-Trichloroethane	10
Dibromochloromethane	10	1,1,2-Trichloroethane	10
1,2-Dibromoethane	10	1,2,3-Trichloropropane	5
Dichlorodifluoromethane	5	Vinyl acetate	5
1,1-Dichloroethane	10	Vinyl chloride	10
1,2-Dichloroethane	10	Xylene (total)	10
1,1-Dichloroethylene	10	cis-1,2-Dichloropropene	10
1,2-Dichloropropane	10	trans-1,2-Dichloroethylene	10
1,4-Dioxane	150	trans-1,3-Dichloropropene	10
Ethyl benzene	10	trans-1,4-Dichloro-2-butene	5
Ethyl methacrylate	5	Trichloroethylene	10
2-Hexanone	10	Trichlorofluoromethane	5
Isobutyl alcohol	50	1,2-Dichloroethylene (total)	10

Table E-11 (continued)

**Typical Practical Quantitation Limits (PQL) in $\mu\text{g/L}$ for Appendix IX
and Target Compound List Compounds**

COMPOUND	PQL	COMPOUND	PQL
<i>Semivolatiles</i>			
Acenaphthene	10	1,4-Dichlorobenzene	10
Acenaphthylene	10	3,3-Dichlorobenzidine	10
Acetophenone	10	2,4-Dichlorophenol	10
2-Acetylaminofluorene	10	2,6-Dichlorophenol	10
4-Aminobiphenyl	10	Diethyl phthalate	10
Aniline	10	Dimethoate	10
Anthracene	10	7,12-Dimethylbenz[a]anthracene	10
Aramite	10	3,3-Dimethylbenzidine	10
Benzo[a]anthracene	10	2,4-Dimethylphenol	10
Benzo[a]pyrene	10	Dimethyl Phthalate	10
Benzo[b]fluoranthene	10	4,6-Dinitro-2-methylphenol	25
Benzo[ghi]perylene	10	4,6-Dinitro-o-cresol	50
Benzo[k]fluoranthene	10	2,4-Dinitrophenol	50, TCL = 25
Benzyl alcohol	10	2,4-Dinitrotoluene	10
Bis(2-chlorethyl)ether	10	2,6-Dinitrotoluene	10
Bis(2-chloroethoxy)methane	10	Diphenylamine	10
Bis(2-ethylhexyl)phthalate	10	Ethyl methanesulfonate	10
Bis(2-chloro-1- methlethyl) ether	10	Famphur	10
Bis(2-chloroisopropyl)ether	10	Fluoranthene	10
4-Bromophenyl phenyl ether	10	Fluorene	10
Butyl benzyl phthalate	10	Hexachlorobenzene	10
Carbazole	10	Hexachlorobutadiene	10
4-Chloroaniline	10	Hexachlorocyclopentadiene	10
Chlorobenzilate	10	Hexachloroethane	10
4-Chloro-3-methyl phenol (P-Chloro-m-cresol)	10	Hexachlorophene	10
2-Chloronaphthalene	10	Hexachloropropene	10
2-Chlorphenol	10	Indeno(1,2,3,-cd)pyrene	10
4-Chlorophenyl phenyl ether	10	Isodrin	10
Chrysene	10	Isophorone	10
Di-n-butyl phthalate	10	Isosafrole	10
Di-n-octyl phthalate	10	Kepona	10
Diallate	10	Methapyrilene	10
Dibenz[a,h]anthracene	10	Methyl methanesulfonate	10
Dibenzofuran	10	3-Methylcholanthrene	10
1,2-Dichlorobenzene	10	2-Methylnaphthalene	10
1,3-Dichlorobenzene	10	2-Methylphenol	10

Table E-11 (continued)

**Typical Practical Quantitation Limits (PQL) in $\mu\text{g/L}$ for Appendix IX
and Target Compound List Compounds**

COMPOUND	PQL	COMPOUND	PQL
4-Methylphenol	10	p-Nitrophenol	50
1,4-Naphthoquinone	10	p-Phenylenediamine	10
1-Naphthylamine	10	Parathion	10
2-Naphthylamine	10	Pentachlorobenzene	10
2-Nitroaniline	25	Pentachloronitrobenzene	10
3-Nitroaniline	25	Pentachlorophenol	50, TCL=25
4-Nitroaniline	25	Phenacetin	10
Nitrobenzene	10	Phenanthrene	10
5-Nitro-o-toluidine	10	Phenol	10
2-Nitrophenol	10	Pronamide	10
4-Nitrophenol	10	Pyrene	10
4-Nitroquinoline 1-oxide	10	Safrole	10
N-Nitrosodi-n-butylamine	10	1,2,4,5-Tetrachlorobenzene	10
N-Nitrosodiethylamine	10	2,3,4,6-Tetrachlorophenol	10
N-Nitrosodimethylamine	10	Tetraethyl dithiopyrophosphate	10
N-Nitrosodipropylamine	10	1,2,4-Trichlorobenzene	10
N-Nitrosodiphenylamine	10	2,4,5-Trichlorophenol	25
N-Nitrosomethylethylamine	10	2,4,6-Trichlorophenol	25
N-Nitrosomorpholine	10	alpha,alpha-Dimethylphenethylamine	10
N-Nitrosopiperidine	10	m-Cresol	10
N-Nitrosopyrrolidine	10	m-Dichlorobenzene	10
Naphthalene	10	m-Dinitrobenzene	10
0,0,0-Triethyl phosphorothioate	10	m-Nitroaniline	50
0,0-Diethyl 0-2-pyrazinyl-phosphorothioate	10	o-Cresol	10
2,2-oxybis(1-Chloropropane)	10	o-Dichlorobenzene	10
p-(Dimethylamino)azobenzene	10	o-Nitroaniline	50
p-Chloroaniline	10	o-Nitrophenol	10
p-Chloro-m-cresol	10	o-Toluidine	10
p-Cresol	10	sym-Trinitrobenzene	10
p-Dichlorobenzene	10	Cyanide	10
p-Nitroaniline	50	Sulfide	1,000

Table E-11 (concluded)

**Typical Practical Quantitation Limits (PQL) in $\mu\text{g/L}$ for Appendix IX
and Target Compound List Compounds**

COMPOUND	PQL	COMPOUND	PQL
<i>Pesticides and PCBs</i>			
Aldrin	0.05	Methoxychlor	0.5
alpha Chlordane	0.5	Methyl parathion	10
gamma Chlordane	0.5	PCB-1242	0.5
Chlordane (total)	0.5	PCB-1254	1.0
2,4-D	10	PCB-1221	0.5
4,4-DD	0.10	PCB-1232	0.5
4,4-DDE	0.10	PCB-1248	0.5
4,4-DDT	0.10	PCB-1260	1.0
Dieldrin	0.10	PCB-1016	0.5
Dinoseb	10	Phorate	10
Disulfoton	10	Silvex	2.0
Endosulfan I	0.10	2,4,5-T	2.0
Endosulfan II	0.10	Toxaphene	1.0
Endosulfan sulfate	0.10	alpha-BHC	0.05
Endrin	0.10	beta-BHC	0.05
Endrin aldehyde	0.20	delta-BHC	0.05
Hepatachlor	0.05	gamma-BHC (Lindane)	0.05
Hepatachlor epoxide	0.05		

Table E-12***1,1,1-Trichloroethane (1,1,1-TCA), 1,1-Dichloroethane (1,1-DCA), and Dichlorodifluoromethane (DCDFMethane) Sampling Results at Selected Groundwater Monitoring Locations***

Location	Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	DCDFMethane (µg/L)
WNGSEEP	01/27/93	<5.0*	<5.0	<5.0
	03/03/93	<5.0*	<5.0	<5.0
	05/06/93	<5.0*	<5.0	<5.0
	06/07/93	<5.0	<5.0	<5.0
	07/27/93	<5.0	<5.0	<5.0
	11/18/93	<5.0	<5.0	<5.0
WNW8609	01/11/93	<5.0*	<5.0*	<5.0
	02/18/93	<5.0	<5.0*	<5.0
	04/21/93	<5.0	<5.0*	<5.0
	05/25/93	<5.0*	<5.0*	<5.0
	07/26/93	<5.0	<5.0	<5.0
	11/11/93	<5.0	<5.0*	<5.0
WNW8612	01/26/93	<5.0*	33.0	6.3
	03/03/93	<5.0*	33.0	9.5
	05/06/93	<5.0*	31.0	7.5
	06/07/93	<5.0*	34.5	7.3
	07/26/93	<5.0*	30.0	4.5
	11/15/93	<5.0*	35.8	6.0
WNW0803	01/26/93	<5.0*	<5.0	12.5
	03/02/93	<5.0	<5.0	19.0
	05/06/93	<5.0	<5.0	19.0
	06/07/93	<5.0*	<5.0	30.0
	07/26/93	<5.0	<5.0	5.0
	11/15/93	<5.0	<5.0	8.0

* Compound was detected below practical quantitation limit (PQL).

Table E-13

Expanded Characterization: N-Dodecane and Tributyl Phosphate Sampling Results

Location	N-Dodecane (µg/L)	Tributyl Phosphate (µg/L)
WNW0909	< 60.0	< 10.0
WNW8605	<i>Not analyzed</i>	290.0
WNNDATR	< 60.00	< 10.0

Table E - 14
Target Compound List and Appendix IX Metals (µg/L) Sampling Results

Location Code & Geologic Unit Quality Standards ¹	Hydraulic Position	Antimony 3 ²	Arsenic 25	Barium 1,000	Beryllium 3 ²	Cadmium 5(10) ³	Chromium 50	Cobalt N/A	Copper 200	Lead 15(25) ³
Sand and Gravel										
WNWNB1S	UP	<3.00	<3.00	78.4	<3.00	<0.20	31.2	<20.0	28.8	< 2.0
WNW0201	DOWN - B	<3.00	<3.00	251	<3.00	<0.20	<10.0	<20.0	<10.0	< 4.0
WNW0305	DOWN - B	<5.00	<3.00	121	<3.00	0.30	<10.0	<20.0	10.0	< 6.0
WNWP008	DOWN - C	<3.00	<3.00	80.2	<3.00	0.35	<10.0	<20.0	<10.0	<5.00
WNW0103	DOWN - C	<3.00	13.0	<40.0	<3.00	0.20	39.8	<20.0	<10.0	14
WNW0104	DOWN - C	<12.0	<1.00	154	<1.00	<2.00	6.10	<3.00	6.20	15
WNW0203	DOWN - C	<3.00	<3.00	274	<3.00	<0.20	95.0	<20.0	40.0	<17
WNW0205	DOWN - C	<3.00	<3.00	197	<3.00	0.30	44.9	<20.0	202	<19
WNW0406	DOWN - C	<3.00	<3.00	116	<3.00	<0.20	<10.0	<20.0	<10.0	21
WNW0408	DOWN - C	<12.0	<1.00	332	<1.00	<2.00	14.6	<3.00	4.70	22
WNW0501	DOWN - C	14.9	<1.00	252	<1.00	<2.00	22.6	<3.00	5.00	24
WNW0502	DOWN - C	18.6	1.00	279	<1.00	<2.00	298	5.10	4.00	<26
WNW0602	DOWN - C	<3.00	<3.00	158	<3.00	0.20	33.0	<20.0	<10.0	28
WNW0604	DOWN - C	<3.00	3.00	76.3	<3.00	<0.20	13.6	<20.0	20.4	<30
WNW8605	DOWN - C	16.0	5.80	87.8	<1.00	<2.00	<3.00	<3.00	<3.00	<32
WNW8609	DOWN - C	<3.00	<3.00	188	<3.00	<0.20	<10.0	<20.0	10.2	<34
WNDMPNE	DOWN - D	<3.00	<3.00	98.2	<3.00	<0.20	<10.0	<20.0	<10.0	<36
WNGSEEP	DOWN - D	<3.00	<3.00	133	<3.00	<0.20	<10.0	<20.0	<10.0	<38
WNW0105	DOWN - D	<3.00	31.0	196	<3.00	0.20	<10.0	<20.0	<10.0	40
WNW0106	DOWN - D	<3.00	3.00	171	<3.00	0.20	85.7	<20.0	14.7	52
WNW0116	DOWN - D	<3.00	<3.00	129	<3.00	0.20	181	<20.0	<10.0	54
WNW0601	DOWN - D	<3.00	<3.00	83.1	<3.00	0.20	692	<20.0	19.8	70
WNW0801	DOWN - D	<3.00	<3.00	143	<3.00	<0.20	<10.0	<20.0	<10.0	<72
WNW0802	DOWN - D	<3.00	<3.00	400	<3.00	<0.20	<10.0	<20.0	<10.0	<74
WNW0803	DOWN - D	<3.00	<3.00	217	<3.00	<0.20	<10.0	<20.0	10.3	76
WNW0804	DOWN - D	<3.00	<3.00	114	<3.00	0.50	20.1	<20.0	<10.0	78
WNW0905	DOWN - D	<4.00	4.00	<40.0	<3.00	<0.20	<10.0	<20.0	<10.0	<80
WNW8603	DOWN - D	<3.00	<3.00	289	<3.00	<0.20	<10.0	<20.0	<10.0	<82
WNW8604	DOWN - D	15.8	<1.00	286	<1.00	<2.00	4.65	<3.00	<3.00	43
WNW8612	DOWN - D	<3.00	4.00	278	<3.00	<0.20	<10.0	<20.0	<10.0	23
Till-sand										
WNW0402	UP	<3.00	<3.00	607	<3.00	<0.20	<10.0	<20.0	10.5	< 2.0
WNW0202	DOWN - B	<3.00	5.00	309	<3.00	<0.20	<10.0	<20.0	15.5	< 4.0
Unweathered Till										
WNW0405	UP	<3.00	<3.00	55.7	<3.00	<0.20	446	<20.0	13.6	< 2.0
WNW0109	DOWN - B	<3.00	<3.00	106	<3.00	<0.20	<10.0	<20.0	<10.0	5
WNW0110	DOWN - B	<3.00	<3.00	127	<3.00	<0.20	<10.0	<20.0	<10.0	< 7.0
WNW0115	DOWN - B	<3.00	7.00	244	<3.00	<0.20	20.7	<20.0	12.2	24
WNW0704	DOWN - B	<3.00	<3.00	46.3	<3.00	<0.20	<10.0	<20.0	<10.0	<26
WNW0904	DOWN - B	<4.00	9.00	91.1	<3.00	<0.20	<10.0	<20.0	19.3	38
WNW1109B	DOWN - B	<4.00	3.00	236	<3.00	<0.20	<10.0	<20.0	<10.0	<40
WNW0107	DOWN - C	<3.00	<3.00	52.8	<3.00	<0.20	<10.0	<20.0	28.3	<42
WNW0409	DOWN - C	<3.00	<3.00	152	<3.00	<0.20	<10.0	<20.0	<10.0	<44
WNW0910	DOWN - C	<4.00	<3.00	<40.0	<3.00	1.90	<10.0	<20.0	<10.0	<46
Weathered Till										
WNW0908	UP	<4.00	<3.00	<30.0	<3.00	<0.20	<10.0	<20.0	11.0	< 2.0
WNW1008C	UP	<3.00	7.00	216	<3.00	<0.20	<10.0	<20.0	<10.0	7
WNW0907	DOWN - B	<4.00	50.0	48.0	<3.00	<0.20	<10.0	<20.0	<10.0	< 9.0
WNW1007	DOWN - B	<3.00	<3.00	51.0	<3.00	2.40	<10.0	<20.0	13.7	11
WNW1108A	DOWN - B	<4.00	3.00	<40.0	<3.00	0.60	<10.0	<20.0	17.3	13
WNW0909	DOWN - C	<3.00	9.00	120	<3.00	<0.20	<10.0	<20.0	13.8	17

¹ Quality Standards are NYS Class GA standards unless otherwise specified.

² NYS Guideline

³ WDDP action level, which is more stringent than the NYS Class GA Standard, is noted in parentheses.

NA - Not available.

Table E - 14 (concluded)
Target Compound List and Appendix IX Metals ($\mu\text{g/L}$) Sampling Results

Location Code & Geologic Unit Quality Standards ¹	Hydraulic Position	Mercury 2	Nickel 700 ²	Selenium 10	Silver 50	Thalium 4 ²	Tin 21,000 ²	Vanadium 250 ²	Zinc 300
Sand and Gravel									
WNWNB1S	UP	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	20.5
WNW0201	DOWN - B	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW0305	DOWN - B	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNWP008	DOWN - C	1.36	<30.0	<3.00	<0.20	<3.00	NA	<20.0	297
WNW0103	DOWN - C	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	14.1
WNW0104	DOWN - C	<0.15	<6.00	<1.00	<3.00	<1.00	NA	<3.00	12.9
WNW0203	DOWN - C	<0.20	154	<3.00	<0.20	<3.00	NA	<20.0	21.2
WNW0205	DOWN - C	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	145
WNW0406	DOWN - C	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	13.5
WNW0408	DOWN - C	<0.15	180	<1.00	<3.00	<1.00	NA	<3.00	13.2
WNW0501	DOWN - C	<0.15	39.0	<1.00	<3.00	<1.00	NA	3.10	23.7
WNW0502	DOWN - C	<0.15	29.4	<1.00	<3.00	<1.00	NA	<3.00	6.80
WNW0602	DOWN - C	<0.20	59	<3.00	<0.20	<3.00	NA	<20.0	19.4
WNW0604	DOWN - C	<0.20	146	<3.00	<0.20	<3.00	NA	<20.0	15.8
WNW8605	DOWN - C	<0.15	<6.00	3.60	3.50	<1.00	NA	<3.00	5.60
WNW8609	DOWN - C	<0.20	<30.0	<3.00	<0.20	<3.00	2000	<20.0	10.9
WNDMPNE	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	NA	<20.0	17.5
WNGSEEP	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	2000	<20.0	<10.0
WNW0105	DOWN - D	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW0106	DOWN - D	<0.20	111	<3.00	<0.20	<3.00	NA	<20.0	57.0
WNW0116	DOWN - D	<0.20	30.0	<3.00	<0.20	<3.00	NA	<20.0	15.5
WNW0601	DOWN - D	<0.20	533	<3.00	<0.20	<3.00	NA	<20.0	59.3
WNW0801	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	NA	<20.0	<10.0
WNW0802	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	NA	<20.0	21.9
WNW0803	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	2000	<20.0	12.5
WNW0804	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	NA	<20.0	24.2
WNW0905	DOWN - D	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	<10.0
WNW8603	DOWN - D	0.52	<30.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW8604	DOWN - D	<0.15	<6.00	<1.00	<3.00	<1.00	NA	<3.00	5.90
WNW8612	DOWN - D	<0.20	<30.0	<3.00	<0.50	<3.00	2000	<20.0	<10.0
Till-sand									
WNW0402	UP	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW0202	DOWN - B	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	12.9
Unweathered Till									
WNW0405	UP	<0.20	169	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW0109	DOWN - B	<0.20	<30.0	<3.00	0.2	<3.00	NA	<20.0	18.7
WNW0110	DOWN - B	<0.20	<30.0	<3.00	0.20	<3.00	NA	<20.0	<10.0
WNW0115	DOWN - B	<0.20	<30.0	<3.00	<0.20	<3.00	NA	21.8	85.3
WNW0704	DOWN - B	<0.20	76.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW0904	DOWN - B	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	19.4
WNW1109B	DOWN - B	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	10.0
WNW0107	DOWN - C	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	13.8
WNW0409	DOWN - C	<0.20	<30.0	<3.00	<0.20	<3.00	NA	<20.0	<10.0
WNW0910	DOWN - C	<0.20	<30.0	<3.00	<10.0	<4.00	NA	<20.0	10.6
Weathered Till									
WNW0908	UP	<0.20	<30.0	3.00	<10.0	<4.00	NA	<20.0	<10.0
WNW1008C	UP	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	<10.0
WNW0907	DOWN - B	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	<10.0
WNW1007	DOWN - B	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	14.2
WNW1108A	DOWN - B	<0.20	<30.0	<3.00	<10.0	<3.00	NA	<20.0	14.5
WNW0909	DOWN - C	<0.20	52.2	<3.00	<0.50	<3.00	2000	<20.0	16.9

¹ Quality Standards are NYS Class GA standards unless otherwise specified.

² NYS Guideline

³ WVDP action level, which is more stringent than the NYS Class GA Standard, is noted in parentheses.

NA - Not available.

Table E - 15
Expanded Characterization: Alpha- and Beta-emitting Radioisotopic Results ($\mu\text{Ci}/\text{mL}$)

Location Code & Geologic Unit	Hydraulic Position	Am-241	C-14	I-129	Pu-238	Pu-239/240
Sand and Gravel						
WNWNB1S	A	1.80±0.80E-10	-2.20±1.20E-08	-1.10±5.70E-10	1.20±1.50E-10	0.68±6.78E-11
WNW0104	C	1.40±3.60E-11	-0.76±1.15E-08	1.50±0.60E-09	0.60±6.05E-11	-1.20±7.10E-11
WNW0111	C	1.30±3.30E-11	-0.12±1.16E-08	1.70±0.70E-09	0.53±5.27E-11	0.53±5.27E-11
WNW0408	C	1.30±3.30E-11	8.30±0.20E-07	4.60±5.40E-10	3.80±9.80E-11	0.77±7.68E-11
WNW0501	C	1.50±3.80E-11	4.50±6.60E-09	3.40±5.90E-10	0.77±7.71E-11	0.77±7.77E-11
WNW0502	C	2.80±4.70E-11	2.00±0.10E-07	1.50±0.50E-09	0.59±5.89E-11	0.59±5.89E-11
WNW8605	C	1.40±0.80E-10	2.40±1.20E-08	1.20±0.10E-08	6.40±7.10E-11	4.90±6.50E-11
WNW0905	D	0.27±2.72E-11	-0.50±1.22E-08	-0.06±5.41E-10	7.00±7.80E-11	0.41±4.10E-11
WNW8604	D	2.15±7.51E-11	0.32±1.16E-08	1.23±0.56E-09	0.70±7.53E-11	0.91±8.09E-11
Unweathered Till						
WNW0405	A	2.30±3.80E-11	-0.23±1.01E-08	0.11±1.08E-09	2.20±1.60E-10	2.70±1.70E-10
Weathered Till						
WNW1008C	A	1.30±3.50E-11	-0.54±1.29E-08	7.50±5.90E-10	-0.78±4.54E-11	-0.78±4.54E-11
WNW0908	A	2.20±3.60E-11	0.17±1.15E-08	8.30±7.20E-10	0.55±5.55E-11	0.55±5.55E-11
WNW0906	B	3.70±4.80E-11	-2.30±1.10E-08	4.70±5.70E-10	0.51±5.06E-11	0.51±5.06E-11
WNW1006	B	6.90±6.00E-11	-0.03±1.22E-08	-1.60±5.30E-10	0.36±3.56E-11	1.80±4.60E-11
Till-Sand						
WNW0402	A	1.50±4.00E-11	-1.60±1.00E-08	-1.40±0.60E-09	0.31±3.07E-11	0.31±3.07E-11
Sand and Gravel						
		Ra-226	Ra-228	Sr-90	Tc-99	U-232
WNWNB1S	A	-0.09±1.53E-07	0.31±7.21E-10	5.00±7.50E-10	-1.40±2.90E-09	0.53±1.44E-10
WNW0104	C	1.10±0.90E-10	1.10±1.00E-09	2.60±0.10E-06	1.70±0.40E-08	4.90±6.90E-11
WNW0111	C	2.70±1.10E-10	2.10±1.10E-09	1.90±0.10E-06	0.72±2.74E-09	1.20±0.20E-09
WNW0408	C	4.80±1.50E-10	-6.40±0.17E-09	1.60±0.10E-04	3.20±0.50E-08	3.20±5.80E-11
WNW0501	C	1.80±1.00E-10	-6.00±0.11E-09	5.40±0.10E-05	1.00±0.30E-08	2.30±6.20E-11
WNW0502	C	3.50±1.00E-10	-8.40±0.12E-09	3.70±0.10E-05	2.10±0.40E-08	-0.17±2.58E-10
WNW8605	C	5.10±1.00E-10	6.50±1.60E-09	1.10±0.10E-05	2.30±0.40E-08	3.60±0.70E-09
WNW0905	D	0.61±1.12E-10	4.30±8.30E-10	-0.34±6.34E-10	-0.57±2.22E-09	-0.22±5.20E-11
WNW8604	D	7.05±0.95E-10	2.85±1.15E-09	4.50±0.10E-06	1.29±0.33E-08	-0.24±2.14E-10
Unweathered Till						
WNW0405	A	1.70±0.20E-09	8.70±9.00E-10	1.30±0.70E-09	0.00±1.90E-09	-0.46±1.44E-11
Weathered Till						
WNW1008C	A	6.30±9.50E-11	0.31±8.22E-10	0.46±1.13E-09	0.41±2.03E-09	0.36±2.53E-11
WNW0908	A	9.70±1.10E-07	4.60±8.20E-10	1.40±6.90E-10	1.20±2.60E-09	1.00±0.10E-11
WNW0906	B	1.90±0.80E-10	-2.60±7.50E-10	-5.00±8.30E-10	0.11±1.41E-09	3.50±6.70E-11
WNW1006	B	6.10±1.50E-10	4.40±8.20E-10	-3.80±6.90E-10	0.24±2.41E-09	-1.40±3.60E-11
Till-sand						
WNW0402	A	1.20±8.00E-08	2.10±0.70E-08	-0.60±6.23E-10	0.87±2.02E-09	0.72±1.20E-10
Sand and Gravel						
		U-233/234	U-235	U-236	U-238	TOTAL U ($\mu\text{g}/\text{mL}$)
WNWNB1S	A	1.50±1.00E-10	0.36±3.58E-11	0.36±3.58E-11	0.36±3.58E-11	3.00±3.00E-05
WNW0104	C	3.20±1.30E-10	0.31±3.12E-11	2.80±4.70E-11	2.20±1.10E-10	5.10±0.80E-04
WNW0111	C	9.80±2.30E-10	0.31±3.12E-11	0.31±3.12E-11	4.80±1.60E-10	1.20±0.20E-03
WNW0408	C	6.90±2.40E-10	4.30±7.30E-11	0.48±4.81E-11	5.90±2.20E-10	1.50±0.20E-03
WNW0501	C	1.60±1.00E-10	0.31±3.10E-11	0.31±3.10E-11	1.30±0.80E-10	3.30±0.50E-04
WNW0502	C	2.00±1.20E-10	3.40±5.70E-11	1.90±4.80E-11	6.40±7.10E-11	4.60±0.70E-04
WNW8605	C	2.00±0.30E-09	5.60±6.70E-11	2.80±4.70E-11	1.30±0.30E-09	1.30±0.20E-03
WNW0905	D	4.10±0.50E-09	1.50±0.90E-10	-0.58±3.39E-11	3.20±0.40E-09	3.70±0.60E-03
WNW8604	D	3.10±1.30E-10	0.34±4.44E-11	1.17±4.44E-11	1.57±0.94E-10	9.30±1.40E-04
Unweathered Till						
WNW0405	A	5.30±1.70E-10	-0.63±3.68E-11	0.32±3.16E-11	3.20±1.30E-10	9.60±1.40E-04
Weathered Till						
WNW1008C	A	2.10±1.10E-10	0.62±4.40E-11	0.31±3.11E-11	1.60±1.00E-10	2.80±0.40E-04
WNW0908	A	6.10±0.60E-09	1.70±0.90E-10	0.27±2.68E-11	4.00±0.50E-09	1.20±0.20E-02
WNW0906	B	2.70±0.40E-09	1.10±0.70E-10	0.27±2.67E-11	1.60±0.30E-09	3.70±0.60E-03
WNW1006	B	4.80±0.60E-09	1.10±0.70E-10	0.27±2.74E-11	3.40±0.40E-09	8.30±1.20E-03
Till-sand						
WNW0402	A	3.70±1.50E-10	0.35±3.53E-11	0.35±3.53E-11	3.30±1.40E-10	1.10±0.20E-05

Table E - 16
Expanded Characterization: Beta-emitting Radioisotopic Results ($\mu\text{Ci/mL}$)

Location Code & Geologic Unit	Hydraulic Position	C-14	I-129	Sr-90	Tc-99
Sand and Gravel					
WNW0201	B	-0.41±1.20E-08	-6.50±5.30E-10	2.30±0.20E-08	-0.48±1.71E-09
WNW0305	B	-0.45±1.00E-08	3.90±4.90E-10	2.00±0.50E-09	0.50±1.28E-09
WNW0103	C	-0.65±1.00E-08	-4.10±8.00E-10	1.50±0.20E-08	0.10±2.01E-09
WNW0203	C	-0.71±1.00E-08	-5.10±8.50E-10	1.40±0.20E-08	0.45±2.23E-09
WNW0205	C	-0.41±1.01E-08	-1.00±0.80E-09	3.80±1.10E-09	-1.10±1.80E-09
WNW0406	C	-0.89±1.00E-08	-3.00±8.80E-10	2.00±1.00E-09	1.90±2.60E-09
WNW0602	C	1.20±1.20E-08	1.00±0.50E-09	7.30±1.80E-09	0.72±1.81E-09
WNW0604	C	1.20±1.20E-08	-1.10±4.30E-10	8.30±8.80E-10	0.00±1.40E-09
WNW8609	C	-0.47±1.19E-08	2.40±0.60E-09	1.30±0.10E-07	-0.58±1.64E-09
WNSP008	C	-1.15±1.00E-08	1.03±0.62E-09	3.25±0.22E-08	2.95±1.88E-09
WNW0105	D	-0.50±1.00E-08	8.00±5.30E-10	5.30±7.70E-10	2.20±0.50E-08
WNW0106	D	0.34±1.01E-08	1.30±0.50E-09	0.00±6.00E-10	9.30±3.10E-09
WNW0116	D	-1.60±1.00E-08	1.50±0.50E-09	1.00±0.10E-08	8.80±2.20E-09
WNW0601	D	-1.60±1.20E-08	-6.50±4.30E-10	5.80±0.40E-08	1.10±2.40E-09
WNW0801	D	-3.50±1.20E-08	4.40±8.20E-10	5.50±0.10E-07	1.10±3.00E-09
WNW0802	D	1.10±1.20E-08	6.90±5.10E-10	5.20±8.70E-10	-0.53±2.53E-09
WNW0803	D	0.85±1.23E-08	1.10±0.80E-09	2.30±0.80E-09	1.10±0.40E-08
WNW0804	D	-3.60±1.20E-08	3.30±5.10E-10	2.50±0.30E-08	0.40±2.72E-09
WNW8603	D	0.00±1.00E-09	1.20±7.70E-10	3.30±0.30E-08	2.10±0.40E-08
WNW8612	D	-0.41±1.22E-08	-1.04±6.82E-10	-0.01±1.08E-09	-0.98±2.26E-09
WNDMPNE	D	-2.90±1.20E-08	-1.40±4.90E-10	2.60±0.10E-07	6.10±3.60E-09
WNGSEEP	D	-4.10±1.20E-08	-2.50±5.50E-10	8.10±9.10E-10	1.90±2.90E-09
Unweathered Till					
WNW0109	B	-1.50±1.00E-08	1.60±1.00E-09	0.67±7.21E-10	-0.40±1.27E-09
WNW0110	B	-8.10±10.0E-09	6.10±7.30E-10	-4.20±6.20E-10	-0.33±1.17E-09
WNW0115	B	-6.70±10.0E-09	9.90±9.40E-10	-3.40±6.10E-10	-0.34±2.22E-09
WNW0704	B	-1.60±1.00E-08	-4.80±8.00E-10	7.80±1.60E-09	1.40±2.40E-09
WNW0904	B	-9.00±11.4E-09	5.20±5.70E-10	0.25±1.14E-09	-1.10±2.20E-09
WNW1109B	B	-2.40±1.10E-08	1.20±0.60E-09	3.10±8.90E-10	-0.24±2.43E-09
WNW0107	C	1.90±10.1E-09	5.20±8.30E-10	0.15±1.28E-09	1.20±2.10E-09
WNW0409	C	-6.60±11.9E-09	-9.50±4.70E-10	0.52±6.68E-10	0.49±3.26E-09
WNW0910	C	6.00±73.6E-10	4.00±5.20E-10	-0.22±1.09E-09	0.63±3.02E-09
Weathered Till					
WNW0907	B	8.40±12.3E-09	8.60±5.00E-10	-2.50±6.70E-10	0.99±2.00E-09
WNW1007	B	-1.90±1.10E-08	-0.12±6.17E-10	0.65±1.47E-09	0.49±3.17E-09
WNW1108A	B	-1.00±1.10E-08	0.89±4.91E-10	0.92±1.90E-09	1.60±3.00E-09
WNW0909	C	8.70±7.60E-09	5.10±0.50E-09	7.20±0.50E-08	0.91±2.26E-09
WNNDATR	C	-7.70±12.1E-09	5.40±7.40E-10	1.60±0.20E-08	-1.00±2.10E-09
Till-sand					
WNW0202	B	-1.70±1.20E-08	-3.90±6.70E-10	-1.60±8.20E-10	-0.50±1.54E-09

Table E - 17

1993 Radiological Concentrations ($\mu\text{Ci/mL}$) at Well Points

Location	Alpha	Beta	H-3	Cs-134	Co-60	K-40
WP-A	0.00 \pm 1.95E-09	1.19 \pm 0.14E-07	1.55 \pm 0.05E-05	0.00 \pm 3.13E-08	0.00 \pm 3.28E-08	0.00 \pm 4.22E-07
WP-C	0.34 \pm 1.47E-09	3.23 \pm 0.15E-07	5.37 \pm 0.16E-05	0.00 \pm 3.13E-08	0.00 \pm 3.28E-08	3.15 \pm 4.22E-07
WP-D	0.00 \pm 2.23E-09	3.35 \pm 0.06E-06	2.48 \pm 0.80E-7	0.00 \pm 3.13E-08	0.00 \pm 3.28E-08	1.97 \pm 4.22E-07
WP-E	1.29 \pm 4.39E-09	1.94 \pm 0.02E-05	4.02 \pm 0.83E-7	0.00 \pm 1.83E-08	0.00 \pm 1.94E-08	0.00 \pm 2.99E-07
WP-F	0.46 \pm 1.56E-08	2.72 \pm 0.02E-04	4.26 \pm 0.83E-7	0.00 \pm 1.83E-08	0.67 \pm 1.94E-08	0.00 \pm 2.99E-07
WP-G	0.90 \pm 3.06E-09	9.52 \pm 1.24E-08	2.99 \pm 0.14E-6	0.00 \pm 1.83E-08	0.00 \pm 1.94E-08	0.95 \pm 2.99E-07
WP-H	8.03 \pm 6.74E-09	1.55 \pm 0.05E-06	1.35 \pm 0.04E-5	0.00 \pm 1.83E-08	0.00 \pm 1.94E-08	0.84 \pm 2.99E-07