

APPENDIX

D

GROUNDWATER
CHEMISTRY

**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			Field	Field	µS/cm		NTU	TCU	mg/L		mg/L			
ODWQS			6.5 - 8.5	NC	NC	6.5 - 8.5	NC	5	5	80 - 100	30 - 500	mg/L	mg/L	mg/L
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
											387			296
03-7s	May-13	FT	7.49	1004	8.2	8.11	889	101	<5	312	309	309	<5	20.2
	Oct-13		7.58	1155	12.5	8.08	1080	102	<5	433	354	354	<5	26.3
	May-14		7.40	950	8.5	7.89	978	702	<5	418	372	372	<5	19.2
	Oct-14		7.40	999	10.7	8.15	1100	484	<5	430	318	318	<5	23.8
	May-15		7.21	740	12.5	7.88	929	1100	5	445	298	298	<5	18.3
	Oct-15		7.35	857	15.2	7.98	1100	934	<5	338	292	292	<5	21.1
	May-16		7.33	656	10.9	8.09	782	1180	<5	361	268	268	<5	15.1
	Oct-16		7.04	970	17.2	8.18	934	5930	<5	417	297	297	<5	25.4
	May-17		7.23	692	8.26	8.24	827	415	5	341	328	328	<5	14.4
Oct-17		7.23	823	16.32	8.24	1020	5370	7	454	354	354	<5	19.3	
111	Oct-85	FT				7.9	364			89				
	Apr-86					7.9	382			104				
	Oct-86					7.8	365			99				
	Apr-87					7.8	382			101				
	Oct-87					8.0	354			114				
	May-88					7.8	388			120				
	Oct-88					7.7	381			111				
	May-89					8.1	374			100				
	Oct-89					7.9	363			91				
	May-90					7.9	377			105				
	Oct-90					8.0	370			102				
	May-91					8.1	376			102				
	Nov-91					8.0	374			105				
	May-92					8.0	377			106				
	Oct-92					8.0	364			109				
	Apr-93					8.1	356			102				
	Nov-93					8.0	364			105				
	May-94					8.1	374			108				
	Oct-94					8.1	367			108				
	May-95					8.1	379			110				
	Oct-95					8.1	374			106				
	May-97						399			117				
	Oct-97						375			110				
	May-98					8.0	399			130				
	Nov-98					7.9	352			99				
	Jun-99					8.2	451			151				
	Oct-99					8.1	455			141				
	Jun-00					7.8	535	2	6	179				
	Oct-00					7.9	467	31	<5	157				
	May-01					8.0	427	25	6	164				
Nov-01					8.0	449	31	<5	152					
May-02					7.9	541	13	<5	188					
Nov-02					8.1	487	28	<5	156					
May-03					8.1	613	14	<5	196	144	142	2	71	
Oct-03					8.2	627	26	<5	209	147	145	2	67	
May-04					8.0	551	9	4	167	133	132	1	56	
Oct-04					8.3	524	22	<2.5	142	125	122	3	67	
May-05					8.3	504	124	<5	145	124	152	<1	62	
Oct-05					8.1	484	115	<5		130	158		53	
May-06					7.9	531	56	110	220	130	129	<10	66	
Oct-06					8.0	484	18	66	190	110	109	<10	59	
May-07					7.9	457	22	65	150	100	99	<10	58	
Oct-07					8.1	465	25	54	160	130	128	<10	54	
May-08					8.1	516	17	23	160	140	138	<10	63	
Oct-08					7.9	437	27	<1	150	120	119	<10	60	
May-09					7.92	440	40	1.8	132	125	124	<10	58.0	
Oct-09					8.20	428	33	3.2	124	121	119	<10	57.7	
May-10			8.28	410	10.1	8.17	382	14	<5	111	115	115	<5	61.0

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
· NC - No criteria · AO - Aesthetic Objective
· MAC - Maximum Acceptable Concentration · OG - Operational Guideline

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Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
03-7s	May-13	FT	85.2	95.3	<0.25	9.14	24.2	20.9	<0.25	<0.25		<0.001	6.9	
	Oct-13		121	139	<0.25	13.4	31.7	30.3	<0.25	<0.25		<0.001	5.3	
	May-14		122	87.0	<0.25	9.42	27.5	20.3	<0.25	<0.25		<0.001	2.6	
	Oct-14		116	153	<0.25	13.5	34.2	30.9	<0.25	<0.25		<0.001	4.1	
	May-15		132	113	<0.10	10.7	28.1	27.5	<0.10	<0.10		<0.001	3.7	
	Oct-15		86.3	163	<0.25	13.6	29.8	34.3	<0.25	<0.25		<0.001	4.9	
	May-16		102	91.0	<0.25	10.5	25.7	26.7	<0.25	<0.25		<0.001	4.2	
	Oct-16		118	121	<0.25	11.7	29.7	28.0	<0.25	<0.25		<0.001	3.6	
	May-17		101	57.7	<0.10	9.48	21.6	21.2	<0.10	<0.10		<0.001	2.9	
Oct-17		133	140	<0.25	12.1	29.6	33.4	<0.25	<0.25		<0.001	3.6		
111	Oct-85	FT	22	6		1.2	9	38				0.0010	4.6	
	Apr-86		26	6		1.2	10	38				0.0010	3.0	
	Oct-86		24	5			10					0.0010	1.9	
	Apr-87		24	6			10					0.0010	2.9	
	Oct-87		26	5			12					0.0010	2.3	
	May-88		30	7			11					0.0010	2.5	
	Oct-88		27	7			10	36				0.0010	3.0	
	May-89		25	6			9					0.0015	2.4	
	Oct-89		21	6			9					0.0040	2.4	
	May-90		26	7			10					0.0010	1.7	
	Oct-90		25	7			10					0.0015	2.3	
	May-91		24	5			10					0.0010	1.8	
	Nov-91		25	7			10					0.0085	3.0	
	May-92		25	8			11					0.0010	2.4	
	Oct-92		26	7			11					0.0020	1.8	
	Apr-93		25	6			10					0.0010	2.1	
	Nov-93		25	6			10					0.0018	2.7	
	May-94		25	8		1.1	11	42				0.0000	2.9	
	Oct-94		26	7		1.0	11	41				0.0011	2.2	
	May-95		26	8		0.8	11	40				0.0011	2.3	
	Oct-95		25	8		1.0	10	39				0.0010	2.6	
	May-97		28	8		0.7	11	41				0.0010	2.8	
	Oct-97		26	9		1.0	11	35				0.0010	3.1	
	May-98		31	13	1.30	1.1	13	39				<0.001	2.9	
	Nov-98		23	10	1.30	1.6	10	37				<0.001	3.3	
	Jun-99		36	30	1.20	1.0	15	44				<0.001	1.6	
	Oct-99		33	33	1.20	1.3	14	44				<0.001	1.5	
	Jun-00		43	57	1.90	1.2	18	50				0.0010	1.6	
	Oct-00		38	35	1.10	1.2	15	48				<0.001	1.4	
	May-01		40	37	1.20	1.2	16	47				<0.001	1.4	
	Nov-01		36	32	1.20	1.3	15	45				<0.001	1.5	
	May-02		45	56	1.10	1.0	18	50				<0.002	1.2	
Nov-02		37	42	1.10	1.1	16	49				<0.002	1.6		
May-03		47	65	1.00	1.3	19	54				<0.002	1.7		
Oct-03		49	72	1.00	1.3	21	60				0.20	<0.002	1.7	
May-04		40	50	1.20	1.1	17	52					<0.002	1.7	0.06
Oct-04		33	38	1.20	1.0	15	52				<0.1	<0.002	3.8	
May-05		37	36	1.20	1.0	15	51				0.10	0.0020	1.5	
Oct-05		33	32	<0.5	1.0	13	51				<0.5	<0.001	1.4	
May-06		55	66	1.00	1.0	19	58				<0.2	<0.001	1.6	
Oct-06		46	49	1.10	1.0	18	50				0.20	<0.001	2.0	
May-07		36	38	1.20	1.0	14	47				0.20	<0.001	3.0	
Oct-07		41	38	0.90	2.0	15	51				0.50	<0.001	2.0	
May-08		41	45	1.10	1.0	15	46				0.30	<0.001	2.0	
Oct-08		36	36	1.20	1.0	14	47				0.40	0.0010	2.0	
May-09		31.9	31.4	1.08	<1.0	12.8	42.9	0.35	<0.10			<0.0010	2.0	
Oct-09		31.1	33.8	1.21	1.10	11.2	38.9	0.58	<0.10			<0.0010	2.2	
May-10		25.6	22.3	1.10	1.19	11.4	43.9	<0.05	<0.05			<0.001	1.3	

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Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			Field	Field	Field		µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS			6.5 - 8.5	NC	NC	6.5 - 8.5	NC	5	5	80 - 100	30 - 500	NC	NC	500
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
											387			296
111	Oct-10	FT	7.97	450	11.2	8.33	359	20	<5	116	116	114	<5	61.5
cont.	Jun-11		8.10	372	10.4	8.11	390	151	<5	115	116	116	<5	67.0
	Oct-11		8.08	411	11	8.21	418	232	<5	134	123	123	<5	71.5
	May-12		8.34	517	12.5	8.00	466	26	5	135	134	134	<5	62.3
	Oct-12		8.04	413	13	8.16	492	65.9	<5	150	140	140	<5	64.1
	May-13		8.23	596	9.9	8.12	493	169	<5	146	129	129	<5	63.7
	Oct-13		8.35	530	12.1	8.10	455	68.4	<5	138	129	129	<5	64.8
	May-14		8.06	530	8.9	8.24	498	273	<5	141	127	127	<5	66.0
	Oct-14		8.27	450	9.7	8.28	497	1230	6	138	127	127	<5	67.0
	May-15		7.74	306	12.6	7.90	457	569	<5	139	123	123	<5	65.1
	Oct-15		8.00	349	13.1	7.89	453	4450	<5	133	109	109	<5	57.7
	May-16		8.32	401	12.9	8.00	501	305	<5	147	140	140	<5	77.2
	Oct-16		7.91	450	14.4	8.12	466	6600	7	123	132	132	<5	64.0
	May-17	Unable to sample due to well deficiencies												
111R	Oct-17	FT	7.65	271	11.70	7.73	345	414	6	93.1	98	98	<5	80.8
141	Oct-85	FT				7.7	605			265				
	Mar-86					7.6	630			294				
	Oct-86					7.6	580			260				
	Apr-87					7.6	595			258				
	Oct-87					7.8	545			279				
	May-88					7.6	605			591				
	Oct-88					7.1	1058			610				
	May-89					7.9	572			249				
	Oct-89					7.7	555			239				
	May-90					7.7	601			271				
	Oct-90					7.8	575			253				
	May-91					7.7	569			242				
	Nov-91					7.9	553			244				
	May-92					7.7	587			286				
	Oct-92					7.7	574			276				
	Apr-93					7.8	576			277				
	Nov-93					7.5	689			364				
	May-94					7.9	605			293				
	Oct-94					7.9	600			301				
	May-95					7.7	594			283				
	Oct-95					7.7	614			294				
	May-97						572			293				
	Oct-97						545			262				
	May-98					7.8	548			260				
	Nov-98					7.9	524			223				
	Jun-99					8.0	973			565				
	Oct-99					7.9	533			250				
	Jun-00					7.5	606	1	6	392				
	Oct-00					7.2	598	22	10	347				
	May-01					7.7	741	26	8	485				
	Nov-01					7.7	744	16	6	423				
	May-02					7.6	961	14	<5	571				
	Oct-02					7.6	1300	29	42	807	562	560	2	284
	May-03					7.6	2560	153	47	1730	1330	1330	5	452
	Oct-03					7.8	2220	133	42	1360	1070	1060	7	408
	May-04					7.6	2700	27	71	1360	1550	1540	5	214
141R	Oct-04	FT				8.2	733	21	16	355	242	238	4	156
	May-05					8.0	1080	630	6	558	370	452	<1	204
	Oct-05					8.2	812	2640	7		343	418		126
	May-06					7.2	1000	35	120	640	370	369	<10	224
	Oct-06					7.5	864	9	71	400	350	349	<10	136
	May-07					7.1	1170	4	6	750	390	389	<10	315

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Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
111	Oct-10	FT	27	21.4	1.23	1.06	11.8	43.7	<0.05	<0.05		<0.001	8.0	
cont.	Jun-11		26.1	23.2	1.08	1.16	12.0	43.2	<0.05	<0.05		<0.001	2.7	
	Oct-11		30.9	27.5	1.09	1.04	13.7	45.8	<0.05	<0.05		<0.001	13.0	
	May-12		31.3	26.5	0.98	1.09	13.9	43.6	0.13	<0.05		<0.001	3.9	
	Oct-12		35.3	41.2	0.91	1.35	15.0	49.0	<0.05	<0.05		<0.001	2.5	
	May-13		33.1	35.7	0.78	1.04	15.5	48.1	<0.10	<0.10		<0.001	6.3	
	Oct-13		31.7	28.9	1.04	1.14	14.2	46.9	0.06	<0.05		<0.001	3.8	
	May-14		32.4	33.2	0.97	1.11	14.6	45.3	0.08	<0.05		<0.001	6.1	
	Oct-14		30.9	32.5	1.05	1.10	14.7	45.8	0.24	<0.10		<0.001	2.8	
	May-15		33.5	31.3	<0.05	2.07	13.5	44.6	<0.05	<0.05		<0.001	1.5	
	Oct-15		32.5	30.5	0.92	1.41	12.6	40.6	1.02	<0.05		<0.001	3.1	
	May-16		34.5	35.9	1.10	1.25	14.8	48.8	0.14	<0.05		<0.001	2.1	
	Oct-16		29.3	29.3	1.05	1.24	12.0	44.7	0.26	<0.05		<0.001	3.2	
	May-17													
111R	Oct-17	FT	22.7	2.99	1.60	1.43	8.85	39.7	<0.05	<0.05		<0.001	2.1	
141	Oct-85	FT	62	4		1.2	27	25				0.0010	1.3	
	Mar-86		69	5		1.2	29	21				0.0010	2.1	
	Oct-86		58	5			28					0.0020	1.6	
	Apr-87		56	6			29					0.0010	2.2	
	Oct-87		59	6			32					0.0010	1.0	
	May-88		66	6			31					0.0015	1.3	
	Oct-88		187	7			34	8				0.0010	6.0	
	May-89		54	6			28					0.0015	1.5	
	Oct-89		51	7			27					0.0010	0.8	
	May-90		63	6			28					0.0010	0.9	
	Oct-90		58	6			27					0.0015	1.5	
	May-91		54	5			26					0.0040	0.8	
	Nov-91		51	6			28					0.0125	2.1	
	May-92		65	7			30					0.0010	2.3	
	Oct-92		60	6			31					0.0010	1.2	
	Apr-93		63	7			29					0.0010	1.1	
	Nov-93		89	6			34					0.0010	2.4	
	May-94		65	7		1.1	32	23				0.0022	2.4	
	Oct-94		67	7		1.2	32	22				0.0010	1.7	
	May-95		64	6		1.1	30	24				0.0010	2.0	
	Oct-95		68	7		1.3	30	22				0.0010	2.6	
	May-97		68	5		1.0	30	28				0.0010	3.3	
	Oct-97		58	5		1.2	29	23				0.0010	2.6	
	May-98		59	6	0.60	1.2	27	26				<0.001	2.8	
	Nov-98		47	7	0.60	1.3	26	27				<0.001	5.4	
	Jun-99		154	7	0.50	1.3	44	19				<0.001	2.5	
	Oct-99		53	12	0.70	1.4	29	29				<0.001	6.8	
	Jun-00		102	10	0.60	1.1	33	24				0.0080	2.8	
	Oct-00		103	5	0.40	1.5	22	10				<0.001	3.3	
	May-01		132	8	0.50	1.3	38	22				<0.001	4.2	
	Nov-01		112	8	0.60	1.4	35	24				<0.001	3.7	
	May-02		160	8	0.50	1.2	42	23				<0.002	5.6	
	Oct-02		230	9	0.50	1.7	56	25			0.17	<0.002	10.8	
	May-03		525	14	0.30	1.3	102	23				<0.002	31.0	
	Oct-03		386	12	0.30	1.7	96	25			<0.1	0.0020	28.2	
	May-04		360	15	0.30	1.5	112	24				<0.002	37.0	1.10
141R	Oct-04	FT	83	3	0.60	2.6	36	54			<0.1	<0.002	5.2	
	May-05		140	4	0.50	1.9	49	41			0.10	0.0010	2.6	
	Oct-05		90	3	<0.5	2.4	37	44			0.50	<0.001	2.1	
	May-06		165	5	0.40	2.0	56	48			<0.2	<0.001	1.8	
	Oct-06		97	4	0.50	2.0	38	38			0.30	<0.001	2.0	
	May-07		201	5	0.40	2.0	61	44			<0.2	<0.001	3.0	

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			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
141R	Oct-07	FT				7.9	784	12	33	340	340	337	<10	105
cont.	May-08					7.6	1210	5	12	620	440	438	<10	348
	Oct-08					7.7	802	15	2	400	340	338	<10	114
	May-09					7.58	1370	24	12	799	477	475	<10	366
	Oct-09					8.01	815	6	4	379	338	335	<10	115
	May-10		7.16	1480	8.5	8.05	1350	2	5	849	473	473	<5	433
	Oct-10		7.35	1110	12.2	8.20	1000	6	<5	604	385	385	<5	282
	Jun-11		7.22	1157	11	7.78	1320	37	<5	862	455	455	<5	443
	Oct-11		7.13	896	10.9	8.18	927	8100	<5	523	387	387	<5	224
	May-12		7.03	1027	10.2	8.07	1100	6	5	624	385	385	<5	264
	Oct-12		7.06	810	11.2	8.18	861	228	<5	552	320	320	<5	245
	May-13		7.42	1450	9.1	7.95	1500	101	<5	894	476	476	<5	438
	Oct-13		7.68	1050	11.5	7.81	1030	29.1	<5	570	441	441	<5	168
	May-14		6.85	1429	9.4	7.76	1440	207	<5	789	510	510	<5	350
	Oct-14		7.38	1015	10.7	8.25	1250	2230	7	602	409	409	<5	291
	May-15		6.85	1069	15.7	7.92	1520	3645	<5	859	494	494	<5	414
	Oct-15		7.17	794	12.0	8.02	1130	85.3	<5	604	388	388	<5	199
	May-16		6.97	1002	10.4	8.07	1510	2540	<5	827	521	521	<5	415
	Oct-16		6.91	1120	13.5	8.22	1100	2880	<5	560	448	448	<5	190
	May-17		6.70	2080	10.17	7.99	2560	7740	15	1410	708	708	<5	882
	Oct-17		7.10	954	11.96	8.06	1280	5400	11	736	494	494	<5	353
233	Mar-86	FT				7.7	655			296				
	Jun-86					7.8	705			286				
	Oct-86					7.6	605			325				
	Apr-87					7.5	685			314				
	May-88					7.5	640			320				
	May-98					7.6	796			438				
	Nov-98					7.7	790			422				
	Jun-99					7.7	958			511				
	Oct-99					7.3	783			497				
	Jun-00					7.6	772	2	<5	535				
	Oct-00					7.0	794	18	<5	508				
	May-01					7.6	904	27	<5	599				
	Nov-01					7.7	953	11	6	580				
	May-02					7.8	1000	14	<5	481				
	Oct-02					7.9	932	10	<5	559	427	424	3	172
	May-03					7.9	1050	18	<5	644	425	422	3	208
	Oct-03					8.0	937	31	<5	564	396	392	4	129
	May-04					7.8	1090	3	3	429	471	468	3	258
	Oct-04					7.9	1060	19	<2.5	639	375	372	3	215
	May-05					7.9	1130	1990	<5	682	417	509	<1	210
233R	Oct-05	FT				8.0	1160	894	19		469	572		224
	May-06					7.3	1090	40	840	760	430	429	<10	233
	Oct-06					7.4	1110	7	22	650	430	429	<10	7
	May-07					7.2	1205	7	11	850	480	479	<10	263
	Oct-07					7.7	1190	6	7	640	470	468	<10	215
	May-08					7.8	1250	7	9	720	480	477	<10	249
	Oct-08					7.5	1290	11	1	770	480	478	<10	285
	May-09					7.63	1440	13	2	853	533	531	<10	324
	Oct-09					7.67	1510	5	2	894	527	525	<10	353
	May-10		7.24	1570	7.8	7.99	1420	2	<5	978	599	599	<5	377
	Oct-10		6.99	1780	12.0	7.93	1370	4	<5	940	612	612	<5	381
	Jun-11		7.21	1288	8.9	7.82	1320	171	<5	943	576	576	<5	338
	Oct-11		6.57	1396	12.6	7.98	1320	492	<5	978	569	569	<5	377
	May-12		7.09	1297	9.3	7.84	1460	10	<5	897	594	594	<5	333
	Oct-12		7.18	1147	13.0	8.08	1110	229	<5	913	441	441	<5	342
	May-13		7.12	1630	8.3	8.04	1350	141	<5	715	469	469	<5	332

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
141R	Oct-07	FT	79	4	0.50	2.0	34	42			0.20	<0.001	1.0	
cont.	May-08		165	5	0.40	2.0	50	40			<0.1	0.0050	2.0	
	Oct-08		101	4	0.60	2.0	36	40			0.50	<0.001	2.0	
	May-09		210	8.5	0.37	1.70	66.7	44	<0.50	<0.10		<0.0010	3.9	
	Oct-09		94.4	4.0	0.55	1.60	34.7	38.7	0.65	<0.10		<0.0010	2.4	
	May-10		231	5.6	0.28	1.80	66.2	41.7	0.19	<0.05		<0.001	4.3	
	Oct-10		151	4.71	0.39	1.96	55.2	46.4	0.41	<0.05		<0.001	4.9	
	Jun-11		232	7.29	<0.05	2.20	68.7	39.9	0.24	<0.05		<0.001	5.9	
	Oct-11		134	5.61	<0.05	1.56	45.8	40.7	0.46	<0.05		<0.001	14.4	
	May-12		162	5.29	<0.05	1.67	53.3	38.7	0.58	<0.05		<0.001	14.1	
	Oct-12		134	5.22	0.42	2.20	52.8	47.5	0.63	0.25		<0.001	3.9	
	May-13		240	7.20	<0.5	1.74	71.6	32.4	1.02	<0.5		<0.001	7.3	
	Oct-13		142	5.76	<0.25	1.61	52.4	32.3	1.11	<0.25		<0.001	4.4	
	May-14		208	6.56	<0.25	1.51	65.5	26.8	0.30	0.27		<0.001	7.5	
	Oct-14		142	6.28	<0.25	1.61	60.0	30.2	0.72	0.36		<0.001	4.4	
	May-15		226	6.53	<0.25	1.50	71.6	31.0	<0.25	<0.25		<0.001	4.6	
	Oct-15		148	5.27	<0.25	1.89	57.0	31.4	<0.25	<0.25		<0.001	5.3	
	May-16		215	6.66	<0.25	1.74	70.4	27.5	<0.25	<0.25		<0.001	3.7	
	Oct-16		137	5.22	<0.25	1.64	53.0	28.3	0.26	<0.25		<0.001	3.9	
	May-17		414	8.70	<0.5	2.01	91.7	30.7	<0.5	<0.5		<0.001	13.7	
	Oct-17		191	4.77	<0.25	1.66	63.0	34.1	1.02	<0.25		<0.001	4.5	
233	Mar-86	FT	81	13		1.7	23	29.2				0.0010	4.2	
	Jun-86		75	13		1.9	24	20				0.0015	2.2	
	Oct-86		90	12			24					0.0015	1.9	
	Apr-87		86	3			24					<0.001	3.1	
	May-88		86	12			26					<0.001	1.8	
	May-98		118	6	0.20	1.5	35	7.8				<0.001	4.0	
	Nov-98		114	8	0.20	1.5	33	10.1				<0.001	2.8	
	Jun-99		138	3	0.20	1.8	40	8.1				<0.001	1.4	
	Oct-99		141	3	0.20	3.2	35	10.3				<0.001	2.2	
	Jun-00		154	3	0.20	2.2	37	10.6				<0.001	1.8	
	Oct-00		136	3	0.20	2.0	41	9.9				<0.001	1.5	
	May-01		167	3	0.20	2.0	44	10.3				<0.001	1.4	
	Nov-01		162	3	0.20	2.1	43	10.2				<0.001	1.3	
	May-02		124	3	0.20	2.1	42	10.1				<0.002	1.2	
	Oct-02		152	5	0.30	1.9	44	8.8			<0.1	0.0020	1.3	
	May-03		185	5	0.20	3.0	44	10.8				<0.002	1.6	
	Oct-03		160	4	0.20	4.3	40	9.7			<0.1	0.0020	2.4	
	May-04		91	6	0.20	2.5	49	9				<0.002	1.5	<0.05
	Oct-04		177	5	0.20	1.9	48	9			<0.1	<0.002	4.1	
	May-05		160	5	0.10	1.5	42	8			<0.1	<0.001	1.9	
233R	Oct-05	FT	170	5	<0.5	7.6	60	17			<0.5	<0.001	3.7	
	May-06		196	7	0.10	5.0	66	24.1			<0.2	<0.001	2.6	
	Oct-06		163	6	0.10	4.0	59	21.7			<0.2	<0.001	4.0	
	May-07		230	5	0.10	4.0	68	20.5			<0.2	<0.001	3.0	
	Oct-07		158	5	<0.1	4.0	60	15.2			<0.2	<0.001	2.0	
	May-08		192	5	0.10	3.0	59	24			<0.1	<0.001	1.0	
	Oct-08		208	5	0.10	3.0	61	27			<0.5	<0.001	3.0	
	May-09		208	4.6	<0.10	2.9	80.8	23.8	<0.50	<0.10		0.0010	2.3	
	Oct-09		234	<2.0	<0.10	2.90	75.1	24.7	<0.50	<0.10		0.0010	2.0	
	May-10		260	4.50	<0.05	2.86	79.9	22.0	<0.05	<0.05		<0.001	1.9	
	Oct-10		251	5.20	<0.05	3.00	76.1	17.8	<0.05	<0.05		0.0020	8.4	
	Jun-11		250	6.32	<0.05	2.97	77.3	16.2	<0.05	<0.05		<0.001	3.8	
	Oct-11		264	6.93	<0.05	2.81	77.5	17.3	<0.05	<0.05		<0.001	8.4	
	May-12		237	6.09	<0.05	2.57	74.0	15.3	<0.05	<0.05		<0.001	6.2	
	Oct-12		234	6.10	0.08	3.12	79.7	17.5	<0.05	<0.05		<0.001	2.6	
	May-13		183	5.29	<0.5	1.96	62.7	10.9	<0.5	<0.5		<0.001	6.2	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			Field	Field	Field	6.5 - 8.5	µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
											387			296
233R cont.	Oct-13	FT	7.50	1620	11.6	7.93	1530	108	<5	972	594	594	<5	379
	May-14		6.89	1699	7.0	7.85	1560	933	<5	967	563	563	<5	394
	Oct-14		6.81	1479	13.5	7.67	1560	295	<5	786	359	359	<5	405
	May-15		6.90	1229	8.4	7.80	1500	672	<5	844	503	503	<5	409
	Oct-15		6.83	1215	14.5	7.88	1680	206	<5	1000	549	549	<5	460
	May-16		6.93	1250	7.9	8.01	1510	157	5	939	527	527	<5	417
	Oct-16		6.70	1500	15.1	7.29	1210	3840	12	702	310	310	<5	420
	May-17		6.94	1270	9.13	8.04	1550	674	<5	851	583	583	<5	375
	Oct-17		6.56	1150	12.69	8.06	1440	230	<5	910	571	571	<5	383
263	Jun-86	FT				7.7	740			294				
	Oct-86					7.7	695			325				
	Apr-87					7.5	655			304				
	May-88					7.6	525			252				
	May-98					7.6	620			353				
	Jun-00					7.6	395	3	<5	325				
	Oct-00					7.2	632	22	<5	364				
	May-01					7.8	615	20	<5	397				
	May-02					8.0	578	17	<5	308				
	May-03					8.1	506	8	<5	283	243	240	3	37
	May-04													
	Oct-04													
May-05					8.1	506	291	<5	287	227	277	<1	28	
263R	May-06	FT				7.4	833	32	280	610	290	289	<10	193
	Oct-06					7.7	753	7	42	400	290	289	<10	149
	May-07					7.6	677	16	30	430	290	289	<10	96
	Oct-07					8.0	684	10	16	350	300	297	<10	88
	May-08					8.0	837	17	17	380	320	317	<10	121
	Oct-08					7.9	696	14	4	330	310	308	<10	82.0
	May-09					8.01	705	14	3	350	303	300	<10	88.6
	Oct-09					8.07	663	11	4	348	296	293	<10	61.4
	May-10		7.82	640	8.6	8.13	623	8	5	325	297	297	<5	74.0
	Oct-10		7.50	720	10.1	8.30	612	10	<5	344	300	396	<5	79.7
	Jun-11		7.90	589	8.8	8.22	634	69	<5	347	290	290	<5	90.5
	Oct-11		7.30	648	10.6	8.29	655	424	<5	376	300	300	<5	102
	May-12		7.46	648	9.8	8.24	711	13	<5	356	304	304	<5	104
	Oct-12		7.40	594	12.5									
	May-13		7.62	874	8.1	8.31	791	70.4	<5	368	297	293	<5	134
	Oct-13		8.18	727	11.7	8.23	732	42.6	<5	361	322	322	<5	93.3
	May-14		7.59	746	7.9	8.19	704	117	<5	353	296	296	<5	88.4
	Oct-14		7.58	598	12.2	8.33	685	91.5	<5	300	318	313	5	68.9
	May-15		7.89	488	8.4	8.27	657	255	<5	300	299	299	<5	70.4
	Oct-15		7.62	482	13.7	8.13	681	146	<5	320	294	294	<5	67.8
May-16		7.64	550	8.9	8.16	640	126	<5	307	273	273	<5	92.3	
Oct-16		D	R	Y										
May-17		7.52	792	9.30	8.21	974	77.6	<5	421	305	305	<5	200	
Oct-17		7.55	627	13.60	8.23	765	191	<5	397	310	310	<5	139	
531	May-88	FT				7.7	545			251				
	Oct-90					7.9	605			267				
	May-91					7.9	585			256				
	Nov-91					7.9	625			297				
	May-92					7.8	586			271				
	Oct-92					7.6	484			240				
	Apr-93					7.8	495			248				
	Apr-93					7.8	625			305				
	Nov-93					7.6	654			328				
	May-94					8.0	612			306				

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L	
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC	
Guideline B-7				127				114	2.70	0.27			3.1		
233R cont.	Oct-13	FT	248	4.80	<0.5	2.97	85.7	23.8	<0.5	<0.5		<0.001	3.4		
	May-14		260	5.29	<0.25	2.26	77.2	14.8	<0.25	<0.25		<0.001	4.4		
	Oct-14		198	5.34	<0.25	2.22	70.8	15.2	<0.25	<0.25		<0.001	4.0		
	May-15		217	5.67	<0.25	2.11	73.4	13.1	<0.25	<0.25		<0.001	5.1		
	Oct-15		269	4.50	<0.25	2.55	80.7	15.0	<0.25	<0.25		<0.001	3.4		
	May-16		254	5.83	<0.25	2.20	74.1	12.9	<0.25	<0.25		<0.001	3.4		
	Oct-16		171	4.37	<0.25	2.23	66.9	10.3	<0.25	<0.25		<0.001	2.5		
	May-17		231	4.80	<0.25	1.97	66.5	10.8	<0.25	<0.25		<0.001	2.2		
	Oct-17		250	3.74	<0.25	2.13	69.3	11.4	<0.25	<0.25		<0.001	2.7		
263	Jun-86	FT	75	21		2.1	26	28				0.0010	2.7		
	Oct-86		87	18			26					0.0025			
	Apr-87		80	16			25					<0.001	2.4		
	May-88		67	12			20					0.0010	3.6		
	May-98		94	8	0.20	1.5	29	9				<0.001	3.6		
	Jun-00		89	5	0.30	1.1	25	8				0.0020	1.8		
	Oct-00		98	6	0.20	1.3	29	9				<0.001	1.6		
	May-01		110	4	0.20	1.1	30	8				<0.001	1.4		
	May-02		80	5	0.20	1.3	26	8				<0.002	1.6		
	May-03		77	8	0.20	1.0	22	8				<0.002	1.8		
	May-04		No data			No data									
	Oct-04		No data			No data									
	May-05		66	6	0.20	0.7	18	7			<0.1	0.0010	1.5		
263R	May-06	FT	148	7	0.20	5	59	23			<0.2	<0.001	3.9		
	Oct-06		86	6	0.30	5	44	22			<0.2	<0.001	4.0		
	May-07		98	5	0.30	3	44	21			<0.2	<0.001	2.0		
	Oct-07		71	5	0.30	3	43	20			<0.2	<0.001	2.0		
	May-08		83	5	0.30	3	42	28			1.10	<0.001	<1		
	Oct-08		79	10	0.30	3	32	31.7			1.00	<0.001	2.0		
	May-09		76	4.5	0.27	2.70	39	24.0	0.43	<0.10		<0.0010	1.8		
	Oct-09		81.9	4.90	0.28	2.70	34.9	25.5	0.70	<0.10		<0.0010	1.7		
	May-10		69.4	4.85	0.27	2.49	36.9	23.3	0.26	<0.05		<0.001	1.2		
	Oct-10		73.4	4.74	0.34	2.60	39.0	19.5	<0.05	<0.05		<0.001	7.4		
	Jun-11		73.3	5.37	<0.05	2.50	39.7	24.1	<0.05	<0.05		<0.001	4.0		
	Oct-11		79.3	4.85	0.31	2.55	43.3	20.7	<0.05	<0.05		<0.001	10.8		
	May-12		74.4	4.83	<0.05	2.37	41.3	20.5	<0.05	<0.05		<0.001	5.3		
	Oct-12														
	May-13		78.4	3.97	<0.25	2.24	41.8	22.9	0.29	<0.25		<0.001	5.0		
	Oct-13		78.0	4.81	<0.25	2.73	40.4	21.1	<0.25	<0.25		<0.001	3.0		
	May-14		74.4	4.30	0.30	2.44	40.6	25.2	0.19	<0.05		<0.001	3.7		
	Oct-14		62.9	4.83	0.30	2.53	34.6	24.9	0.26	<0.10		<0.001	1.2		
	May-15		63.5	4.70	0.29	2.25	34.4	24.5	0.16	<0.05		<0.001	2.7		
	Oct-15		68.7	4.80	0.31	2.57	36.1	23.2	0.14	<0.10		<0.001	3.2		
May-16		63.7	4.59	0.31	2.08	36.0	27.1	0.26	<0.05		<0.001	1.1			
Oct-16															
May-17		91.1	4.12	<0.10	2.58	47.1	27.9	0.22	<0.10		<0.001	1.1			
Oct-17		83.7	3.37	<0.25	2.65	45.6	24.9	<0.25	<0.25		<0.001	1.3			
531	May-88	FT	65	10		1.9	22	24				0.0020	5.0		
	Oct-90		61	10			28					0.0025	3.0		
	May-91		63	9			24					0.0010	2.4		
	Nov-91		67	10			31					0.0045	2.7		
	May-92		62	10			28					0.0070	2.6		
	Oct-92		66	7			18					0.0045	8.1		
	Apr-93		65	12		1.9	21	23				0.0035	4.5		
	Apr-93		70	10			31					0.0010	2.4		
	Nov-93		78	9			32					0.0010	3.7		
	May-94		73	9		1.9	30	26				0.0010	3.8		

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity		Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			pH	Cond.	Temp.		µS/cm	NTU	TCU	mg/L					
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500				
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO	
											387			500	
														AO	
														296	
531	Oct-94	FT				7.9	637				312				
cont.	May-95					7.7	559				277				
	Oct-95					7.8	650				305				
	May-97						560				295				
	Oct-97						609				295				
	May-98					7.7	588				307				
	Jun-99					8.2	664				348				
	Nov-01					7.8	625	9	8		352				
	Nov-01					7.9	665	15	<5		355				
	May-02					8.0	599	9	5		318				
	Oct-02					7.9	684	25	13		339				
	May-03					8.0	696	6	8		318	285	282	3	28
	Oct-03					8.1	651	16	<5		355	323	319	4	35
	May-04					7.9	582	6.1	15		320	314	311	3	9
531R	Oct-04	FT				7.9	1010	23.6	26		510	251	249	2	316
	May-05					8.2	993	44.2	11		453	301	367	<1	244
	Oct-05					8.2	896	45.4	11			324	395		170
	May-06					7.5	829	5.2	14		510	300	299	<10	204
	Oct-06					7.9	826	4.9	24		430	310	308	<10	161
	May-07					7.0	776	2.9	6		430	300	299	<10	150
	Oct-07					8.0	783	2.5	9		370	300	297	<10	131
	May-08					7.9	839	4.4	6		400	290	288	<10	192
	Oct-08					7.8	789	4.5	2		410	300	298	<10	147
	May-09					7.96	765	6.5	2		385	303	300	<10	141
	Oct-09					8.01	753	6.5	4		366	298	295	<10	112
	May-10		7.69	600	8.1	8.12	679	5.3	<5		345	291	291	<5	114.0
	Oct-10		7.53	810	13.0	8.22	657	5.6	<5		366	306	306	<5	96.3
	Jun-11		7.46	600	10.1	8.10	644	12	<5		343	293	293	<5	90.5
	Oct-11		7.29	653	12.7	8.37	642	116	<5		333	300	291	10	98.1
	May-12		7.83	797	10.5	8.05	662	9.5	<5		334	289	289	<5	82.8
	Oct-12		7.16	528	12.7	8.32	624	54.7	<5		306	284	279	5	85.2
	May-13		7.61	788	8.6	8.26	689	65.1	<5		352	281	281	<5	98.9
	Oct-13		8.04	750	12.5	8.01	697	58.4	6		332	317	317	<5	81.7
	May-14		7.69	718	7.9	8.20	695	107	<5		341	291	291	<5	78.6
	Oct-14		7.70	633	12.0	8.21	730	112	8		334	304	304	<5	76.9
	May-15		7.18	447	11.9	8.06	665	82	<5		269	292	292	<5	75.5
	Oct-15		7.53	500	12.6	8.03	684	206	<5		281	269	269	<5	74.4
	May-16		7.49	540	13.0	8.15	643	42.4	<5		320	269	269	<5	99.8
	Oct-16		7.43	630	15.6	8.26	721	44.1	<5		322	299	299	<5	78.9
	May-17		7.39	704	9.72	8.24	869	271	<5		371	293	293	<5	163
	Oct-17		7.56	585	12.61	8.33	720	75.3	7		368	291	283	8	143
541	May-88	FT				7.5	645				290				
	Oct-88					7.5	651				305				
	May-89					7.8	675				317				
	Oct-89					7.7	659				311				
	May-90					7.7	661				317				
	Oct-90					8.0	675				314				
	May-91					7.8	694				316				
	Nov-91					7.6	687				321				
	May-92					7.6	710				342				
	Oct-92					7.7	708				346				
	Apr-93					7.7	714				352				
	Nov-93					7.7	703				345				
	May-94					7.8	718				367				
	Oct-94					7.8	707				355				
	May-95					7.6	729				348				
	Oct-95					7.6	712				349				

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
531	Oct-94	FT	72	9		2.0	32	26				0.0010	2.5	
cont.	May-95		71	7		2.4	24	17				0.0017	4.4	
	Oct-95		70	9		2.1	31	24				0.0010	2.8	
	May-97		74	6		2.0	27	20				0.0010	5.5	
	Oct-97		68	1		2.0	30	22				0.0010	2.8	
	May-98		74	9	0.40	2.5	30	22				<0.001	4.9	
	Jun-99		84	6	0.40	3.0	34	20				0.0140	3.1	
	May-01		88	5	0.40	2.3	32	21				<0.001	2.2	
	Nov-01		87	5	0.40	2.8	33	20				<0.001	2.1	
	May-02		78	4	0.40	2.0	30	17				<0.002	2.5	
	Oct-02		82	8	0.40	3.6	33	19				0.0190	4.7	
	May-03		83	13	0.30	2.5	27	15				<0.002	4.2	
	Oct-03		89	12	0.40	3.7	32	19			0.84	<0.002	3.7	
	May-04		100	4	0.20	1.7	17	6				0.0040	5.7	0.21
531R	Oct-04	FT	121	8	0.30	4.0	51	21			<0.1	<0.002	6.8	
	May-05		110	12	<0.4	2.8	48	56			<0.4	0.0010	2.7	
	Oct-05		140	8	<0.5	3.2	74	55			<0.5	0.0010	2.6	
	May-06		120	11	0.30	3.0	52	43			<0.2	<0.001	2.2	
	Oct-06		96	10	0.30	3.0	46	34			<0.2	<0.001	3.0	
	May-07		103	9	0.30	2.0	42	40			<0.2	<0.001	2.0	
	Oct-07		80	8	0.30	2.0	42	36			<0.2	<0.001	2.0	
	May-08		93	8	0.30	2.0	41	35			0.10	<0.001	1.0	
	Oct-08		98	13	0.40	3.0	40	32			0.40	<0.001	2.0	
	May-09		87.2	7.30	0.31	2.0	41	28	<0.10	<0.10		<0.0010	2.4	
	Oct-09		83.5	7.40	0.34	2.1	38	27	<0.10	<0.10		<0.0010	3.0	
	May-10		76.9	7.66	0.32	2.02	37.1	28.3	<0.05	<0.05		<0.001	1.1	
	Oct-10		83.5	6.95	0.37	2.26	38.2	27.0	<0.05	<0.05		<0.001	6.4	
	Jun-11		76.5	7.76	<0.05	2.01	36.8	24.4	<0.05	<0.05		<0.001	2.9	
	Oct-11		72.0	7.08	<0.05	2.03	37.2	26.0	<0.05	<0.05		<0.001	6.5	
	May-12		75.7	6.03	0.25	1.82	35.3	24.7	<0.05	<0.05		<0.001	6.2	
	Oct-12		67.5	6.56	0.34	2.06	33.3	24.5	<0.05	<0.05		<0.001	2.1	
	May-13		76.2	5.62	<0.25	1.89	39.2	23.1	<0.25	<0.25		<0.001	6.2	
	Oct-13		72.6	5.71	<0.25	2.12	36.6	23.3	<0.25	<0.25		<0.001	2.1	
	May-14		75.0	5.32	0.26	2.33	37.3	22.6	<0.05	<0.05		<0.001	5.2	
	Oct-14		72.9	5.72	<0.25	2.19	36.9	23.4	<0.25	<0.25		<0.001	2.6	
	May-15		53.0	5.59	0.21	1.76	33.3	23.0	<0.10	<0.10		<0.001	2.7	
	Oct-15		53.4	5.49	<0.25	2.11	35.9	23.5	<0.25	<0.25		<0.001	2.8	
	May-16		68.6	5.87	0.30	1.78	36.1	22.3	<0.05	<0.05		<0.001	1.5	
	Oct-16		70.6	5.37	0.26	2.01	35.5	21.5	<0.10	<0.10		<0.001	2.2	
	May-17		82.8	4.76	0.18	2.07	39.8	22.2	<0.10	<0.10		<0.001	1.6	
	Oct-17		79.8	4.18	0.37	2.13	40.9	23.6	<0.10	<0.10		<0.001	2.2	
541	May-88	FT	75	13		2.0	28	24				0.0010	2.0	
	Oct-88		76	12			28	24				0.0020	15.0	
	May-89		76	14			31					0.0010	1.4	
	Oct-89		75	14			30					0.0020	1.2	
	May-90		78	13			30					0.0010	0.9	
	Oct-90		77	15			30					0.0015	1.9	
	May-91		76	16			31					0.0035	0.8	
	Nov-91		75	16			33					0.0055	1.4	
	May-92		79	19			35						1.2	
	Oct-92		80	17			35						1.2	
	Apr-93		84	19			34					0.0010	1.1	
	Nov-93		84	17			33					0.0010	1.5	
	May-94		88	17		1.6	36	20				0.0010	2.2	
	Oct-94		85	19		1.8	35	20				0.0010	1.5	
	May-95		82	19		1.5	35	20				0.0010	2.1	
	Oct-95		84	19		1.8	34	21				0.0010	2.0	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
										387			296	
541	May-97	FT					710			397				
cont.	Oct-97						698			352				
	May-98					7.6	697			360				
	Nov-98					7.9	705			334				
	Jun-99					7.7	646			316				
	Oct-99					7.8	589			372				
	Jun-00					7.5	595	1.3	<5	355				
	Oct-00					7.4	707	14.4	<5	335				
	May-01					7.9	628	16.2	<5	379				
	Nov-01					7.9	692	14.3	8	381				
	May-02					8.0	718	9.9	<5	350				
	Oct-02					8.0	679	9.3	<5	355	311	308	3	71
	May-03					8.0	732	14.9	<5	393	321	318	3	70
	Oct-03					8.1	686	15.1	<5	370	318	314	4	68
	May-04					8.1	645	1.3	4	217	277	274	3	56
	Oct-04					8.0	727	9.7	<2.5	367	295	292	3	64
	May-05					8.0	673	203	<5	371	281	342	<1	66
	Oct-05					8.1	671	309	<5	312	381			60
	May-06					7.6	660	65.0	780	390	300	299	<10	76
	Oct-06					7.8	633	6.6	100	380	300	298	<10	66
	May-07					7.6	657	6.0	8	420	300	299	<10	71
	Oct-07					7.9	679	8.10	34	330	320	318	<10	65
	May-08					8.0	691	7.70	6	350	330	327	<10	70
	Oct-08					7.5	670	5.0	<1	370	320	319	<10	66
	May-09					7.96	692	6.50	<1.0	370	314	311	<10	70.9
	Oct-09					8.05	683	5.30	<1.0	386	307	304	<10	67.5
	May-10		7.68	510	8.5	8.10	634	4.9	<5	339	309	309	<5	78.4
	Oct-10		7.58	710	12.4	8.28	609	11.0	<5	355	303	302	<5	68.8
	Jun-11		7.58	568	9.7	8.06	615	196	<5	349	300	300	<5	73.8
	Oct-11		7.40	613	11.5	8.18	611	1550	<5	359	294	294	<5	73.8
	May-12		7.83	770	10.2	8.01	633	10.6	<5	325	289	289	<5	68.3
	Oct-12		7.43	527	13.3	8.21	522	546	<5	289	260	260	<5	67.5
	May-13		7.97	759	8.2	8.08	625	96.5	<5	368	268	268	<5	67.8
	Oct-13		7.97	718	12.5	7.84	672	65.9	<5	358	321	321	<5	66.2
	May-14		7.81	743	8.5	8.10	674	83.6	<5	347	294	294	<5	67.2
	Oct-14		7.82	613	10.4	8.27	671	111	<5	310	275	275	<5	70.8
	May-15		7.39	464	12.1	8.05	624	1410	<5	304	274	274	<5	70.4
	Oct-15		7.51	491	12.7	7.98	679	348	<5	269	272	272	<5	69.0
	May-16		7.55	548	9.3	8.12	627	182	<5	322	274	274	<5	79.6
	Oct-16		7.48	650	14.8	8.23	683	624	<5	323	296	296	<5	66.3
	May-17		7.62	602	8.65	8.28	651	3040	<5	280	255	255	<5	67.1
	Oct-17		7.65	495	13.10	8.25	633	170	<5	328	315	315	<5	64.6
552	Oct-87	FT				7.8	640			314				
	May-88					7.4	665			338				
	Oct-88					7.5	632			303				
	May-89					7.7	694			339				
	Oct-89					7.3	1029			509				
	May-90					7.4	903			457				
	Oct-90					7.5	870			421				
	May-91					7.6	802			377				
	Nov-91					7.3	1260			559				
	May-92					7.2	1135			562				
	Oct-92					7.2	1171			528				
	Apr-93					7.4	1037			502				
	Nov-93					7.1	1184			486				
	May-94					7.5	1118			525				
	Oct-94					7.6	919			411				

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
541	May-97	FT	95	18		1.6	39	19				0.0010	3.4	
cont.	Oct-97		86	19		1.8	33	19				0.0010	3.0	
	May-98		87	20	0.40	1.5	35	19				<0.001	2.6	
	Nov-98		80	19	0.50	1.8	33	20				<0.001	1.7	
	Jun-99		67	17	0.40	1.5	36	19				<0.001	1.1	
	Oct-99		90	16	0.50	2.0	36	21				<0.001	0.6	
	Jun-00		82	18	0.50	1.4	36	18				0.0020	1.3	
	Oct-00		75	15	0.50	1.6	36	19				<0.001	0.9	
	May-01		89	15	0.40	1.6	38	19				<0.001	1.1	
	Nov-01		93	15	0.47	1.8	36	19				<0.001	1.0	
	May-02		79	14	0.43	1.5	37	17				<0.002	0.9	
	Oct-02		86	13	0.47	1.7	34	18			2.70	<0.002	0.9	
	May-03		95	13	0.38	1.7	38	19				<0.002	1.2	
	Oct-03		87	12	0.45	1.8	37	20			1.78	<0.002	1.0	
	May-04		38	9	0.31	1.4	30	15				<0.002	0.8	<0.05
	Oct-04		90	11	0.46	1.7	35	19			0.86	<0.002	5.2	
	May-05		92	10	0.40	1.5	35	18			0.90	<0.001	1.4	
	Oct-05		89	10	<0.5	1.8	36	21			0.50	<0.001	1.1	
	May-06		97	11	0.30	2	37	18			0.90	<0.001	2.7	
	Oct-06		91	10	0.40	2	38	21			0.70	<0.001	2.0	
	May-07		106	9	0.40	2	37	19			0.50	<0.001	2.0	
	Oct-07		77	9	0.30	2	33	19			0.40	<0.001	1.0	
	May-08		90	8	0.40	2	31.3	17			0.50	<0.001	2.0	
	Oct-08		92	13	0.50	2	35.1	19			0.40	<0.001	1.0	
	May-09		91.3	12.6	0.39	1.70	34.5	17.7	0.49	<0.10		<0.0010	2.1	
	Oct-09		100	7.10	0.42	1.80	33	17.6	<0.10	<0.10		<0.0010	1.5	
	May-10		82.9	7.28	0.36	1.64	32.1	18.6	0.16	<0.05		<0.001	1.1	
	Oct-10		87.6	6.57	0.45	1.71	33.2	19	0.07	<0.05		0.0020	4.9	
	Jun-11		85.2	7.18	0.25	1.79	33.2	17.2	0.11	<0.05		<0.001	3.7	
	Oct-11		88.2	6.98	0.36	1.68	33.8	18.3	<0.05	<0.05		<0.001	7.9	
	May-12		76.2	6.13	0.29	1.51	32.8	17.2	<0.05	<0.05		<0.001	5.1	
	Oct-12		66.7	6.57	0.36	1.78	29.7	17.8	<0.05	<0.05		<0.001	1.6	
	May-13		88.2	5.84	0.30	1.51	35.8	17.6	<0.25	<0.25		<0.001	3.6	
	Oct-13		88.0	5.60	0.47	1.76	33.5	17.5	<0.10	<0.10		<0.001	3.5	
	May-14		83.1	5.11	0.32	1.56	33.9	16.5	<0.25	<0.25		<0.001	6.7	
	Oct-14		69.6	5.70	<0.25	1.72	33.1	18.6	<0.25	<0.25		<0.001	2.7	
	May-15		71.6	4.69	0.25	1.94	30.4	18.4	<0.05	<0.05		<0.001	1.7	
	Oct-15		54.5	5.08	0.37	1.86	32.3	18.8	<0.10	<0.10		<0.001	2.8	
	May-16		76.6	5.02	0.29	1.53	31.8	17.7	<0.05	<0.05		<0.001	2.1	
	Oct-16		79.5	5.01	0.30	1.76	30.2	16.4	<0.10	<0.10		<0.001	1.4	
	May-17		64.2	4.49	0.33	1.37	29.0	16.6	0.06	<0.05		<0.001	1.6	
	Oct-17		80.6	3.58	0.30	1.61	30.7	18.0	<0.10	<0.10		<0.001	1.7	
552	Oct-87	FT	80	13			28					0.0015	2.5	
	May-88		88	18		1.6	29	18				0.0010	1.5	
	Oct-88		78	19			26	28				0.0010	2.2	
	May-89		87	20			30					0.0010	1.6	
	Oct-89		143	65			37					0.0010	2.1	
	May-90		127	49			34					0.0010	1.8	
	Oct-90		117	48			31					0.0050	2.7	
	May-91		100	34			31					0.0060	1.9	
	Nov-91		159	172			39					0.0095	3.4	
	May-92		156	112			42					0.0010	2.6	
	Oct-92		146	133			40					0.0010	3.0	
	Apr-93		138	75			38					0.0010	2.6	
	Nov-93		136	107			36					0.0010	3.4	
	May-94		149	96		1.2	37	45				0.0010	4.1	
	Oct-94		114	70		1.3	31	35				0.0011	3.3	

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- † - sampled by Oxford County Board of Health



**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
552	May-95	FT				7.4	829			385				
cont.	Oct-95					7.5	978			424				
	May-97						661			348				
	Oct-97						634			303				
	May-98					7.8	625			322				
	Jun-99					8.2	622			260				
	Oct-99					8.0	634			331				
	Jun-00					7.6	542	3	8	318				
	Oct-00					7.3	712	30	19	304				
	May-01					7.9	610	260	44	209				
	Nov-01					7.7	1040	37	8	423				
	May-02					7.9	802	41	14	355				
	Oct-02					8.0	747	29	<5	359				
552R	May-03	FT				8.1	853	10.1	<5	409	334	330	3	69
	Oct-03					8.0	767	8.37	<5	398	295	292	3	65
	May-04					8.1	873	1.77	4	316	315	312	3	60
	Oct-04					8.1	868	18.1	3	379	273	270	3	62
	May-05					8.1	793	149	<5	379	259	317	<1	61
	Oct-05					8.1	847	176	<5		306	374		56
	May-06					7.6	747	11	110	500	250	249	<10	67
	Oct-06					7.7	737	5.7	47	400	260	259	<10	61
	May-07					7.5	763	6.2	8	460	270	269	<10	61
	Oct-07					8.0	775	7.1	22	390	280	277	<10	56
	May-08					8.0	765	6.9	19	370	260	258	<10	60
	Oct-08					7.9	747	5	<1	390	270	268	<10	59
	May-09					7.82	904	30	<1.0	356	337	335	<10	53.5
	Oct-09					8.00	839	3.5	2	400	272	269	<10	56.9
	May-10		7.58	850	9.4	8.07	780	4	<5	392	271	271	<5	60.3
	Oct-10		7.56	870	12.9	8.22	738	3.4	<5	410	248	248	<5	64.2
	Jun-11		7.59	656	9.8	8.03	738	161	<5	371	334	334	<5	45.9
	Oct-11		7.39	763	12.1	8.20	754	3030	<5	417	261	261	<5	63.4
	May-12		7.37	761	11.0	7.92	807	10.5	<5	363	263	263	<5	53.7
	Oct-12		7.18	776	13.7	8.16	789	264	<5	460	310	310	<5	49.4
	May-13		7.81	969	9.4	8.01	823	201	<5	427	253	253	<5	47.7
	Oct-13		7.87	905	13.0	7.97	856	53.3	<5	410	269	269	<5	55.0
	May-14		7.44	931	8.6	7.90	892	343	<5	405	294	294	<5	56.0
	Oct-14		8.05	835	10.7	8.23	884	522	7	383	227	227	<5	60.0
	May-15		7.45	610	11.7	8.05	857	219	<5	387	244	244	<5	53.1
	Oct-15		7.68	622	15.2	8.05	905	202	<5	414	248	248	<5	55.7
	May-16		7.50	650	11.5	8.06	839	341	<5	392	239	239	<5	53.9
	Oct-16		7.33	890	14.1	8.26	1100	219	<5	507	389	389	<5	41.8
	May-17		6.80	1420	9.22	8.08	1560	51.3	<5	685	415	415	<5	27.2
	Oct-17		6.96	1320	9.98	8.10	1210	480	7	550	451	451	<5	36.2
562	May-88	FT				7.8	530			239				
	May-98					7.8	574			317				
	Jun-99					7.9	627			316				
	Oct-99					7.6	610			366				
	Jun-00					7.8	435	3.7	<5	285				
	Oct-00					7.6	575	16.3	<5	278				
	May-01					7.9	534	21.0	<5	309				
	Nov-01					8.1	430	12.9	<5	322				
	May-02					8.0	581	17.4	<5	273				
	Oct-02					7.9	599	8.0	<5	308				
	May-03					8.1	672	7.1	<5	303	235	232	3	79
	Oct-03					8.1	553	13.3	<5	288	255	252	3	55
	May-04					8.1	615	11.3	15	287	268	265	3	57
	Oct-04					8.1	624	8	3	295	260	257	3	44

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
552	May-95	FT	107	64		1.0	29	27				0.0010	3.0	
cont.	Oct-95		123	84		2.7	28	45				0.0010	5.2	
	May-97		88	33		1.1	31	22				0.0010	3.5	
	Oct-97		73	29		1.3	30	18				0.0010	2.4	
	May-98		78	37	0.60	1.4	31	18				<0.001	3.0	
	Jun-99		73	45	0.40	2.6	19	39				0.0010	5.5	
	Oct-99		95	46	0.40	3.6	23	57				<0.001	4.6	
	Jun-00		86	38	0.50	2.2	25	23				0.0010	2.2	
	Oct-00		92	35	0.40	5.0	18	40				<0.001	4.8	
	May-01		67	73	0.30	5.6	10	73				<0.001	6.9	
	Nov-01		132	114	0.2	4	23	65				<0.001	4.7	
	May-02		109	62	0.2	2.2	20	40				<0.002	4.9	
	Oct-02		98	45	0.5	2.3	28	30				<0.002	2.3	
552R	May-03	FT	105	53	0.47	1.7	36	37				<0.002	1.5	
	Oct-03		101	55	0.11	1.6	36	25			<0.1	<0.002	1.5	
	May-04		67	59	0.56	1.4	36	29				<0.002	1.0	0.13
	Oct-04		94	64	0.56	1.3	35	24			<0.1	<0.002	5.1	
	May-05		98	61	0.40	1.2	35	21			<0.1	0.0010	1.0	
	Oct-05		99	61	<0.5	0.9	37	27			<0.5	<0.001	1.1	
	May-06		133	70	0.40	1.0	41	18			<0.2	<0.001	1.0	
	Oct-06		97	65	0.50	1.0	38	18			<0.2	<0.001	2.0	
	May-07		119	68	0.40	1.0	40	22			<0.2	<0.001	2.0	
	Oct-07		97	66	0.40	1.0	36	20			0.20	<0.001	1.0	
	May-08		96	63	0.50	1.0	33	19			0.10	<0.001	<1	
	Oct-08		101	66	0.50	2.0	33	17			<0.1	<0.001	1.0	
	May-09		92.1	80.0	0.38	1.40	30.5	30.0	0.27	<0.10		<0.0010	1.7	
	Oct-09		104	75.6	0.46	1.40	34.1	15.7	<0.10	<0.10		<0.0010	1.3	
	May-10		99.4	83.8	0.43	1.36	35.0	20.6	0.06	<0.05		<0.001	1.0	
	Oct-10		104	84.1	0.32	1.36	36.5	17.3	<0.05	<0.05		0.0050	4.0	
	Jun-11		92.2	48.3	<0.05	1.48	34.3	15.6	<0.05	<0.05		<0.001	2.6	
	Oct-11		106	94.9	<0.05	1.42	37.1	17.7	<0.05	<0.05		<0.001	5.4	
	May-12		88.0	90.7	<0.05	1.27	34.7	16.9	0.06	<0.05		0.0010	4.0	
	Oct-12		109	92.3	0.33	1.69	45.7	21.5	<0.05	<0.05		<0.001	1.9	
	May-13		107	82.8	<0.25	1.27	38.7	18.6	<0.25	<0.25		<0.001	3.4	
	Oct-13		104	95.4	<0.25	1.44	36.4	18.2	<0.25	<0.25		<0.001	2.4	
	May-14		103	98.7	0.47	1.34	35.8	19.0	<0.10	<0.10		<0.001	4.8	
	Oct-14		91.7	110	<0.25	1.44	37.4	20.5	<0.25	<0.25		<0.001	2.7	
	May-15		97.5	108	0.29	1.42	34.8	20.3	<0.10	<0.10		<0.001	1.9	
	Oct-15		107	119	<0.25	1.48	35.6	21.8	<0.25	<0.25		<0.001	1.5	
	May-16		97.6	107	<0.25	1.34	36.1	21.3	<0.25	<0.25		<0.001	1.6	
	Oct-16		134	115	<0.25	1.68	41.8	31.2	<0.25	<0.25		<0.001	3.3	
	May-17		194	214	<0.25	1.53	48.7	55.0	<0.25	<0.25		<0.001	3.0	
	Oct-17		150	160	<0.25	1.66	42.7	49.1	<0.25	<0.25		<0.001	2.3	
562	May-88	FT	55	7		2.4	25	19				0.0010	1.7	
	May-98		75	4		1.4	32	13				<0.001	2.2	
	Jun-99		69	3	0.70	1.7	35	16				0.0010	1.0	
	Oct-99		81	3	0.70	2.2	40	17				<0.001	0.9	
	Jun-00		70	3	0.60	1.4	27	23				0.0010	0.8	
	Oct-00		64	2	0.50	1.3	28	19				<0.001	0.8	
	May-01		73	2	0.60	1.3	31	17				<0.001	0.8	
	Nov-01		74	3	0.70	1.8	33	17				0.0021	0.9	
	May-02		61	2	0.60	1.3	30	19				<0.002	0.7	
	Oct-02		71	4	0.60	2.8	32	16				0.0790	5.7	
	May-03		71	3	0.60	1.6	30	19				<0.002	1.0	
	Oct-03		69	4	0.70	2.1	28	15			1.06	<0.002	1.3	
	May-04		69	4	0.60	2.7	28	25				<0.002	2.6	0.15
	Oct-04		69	3	0.80	1.8	30	19			<0.1	<0.002	6.0	

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Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
562	May-05	FT				8.1	550	316	<5	270	234	285	<1	58
cont.	Oct-05					8.2	613	390	<5		285	348		52
	May-06					7.8	527	22	260	290	260	259	<10	68
	Oct-06					7.8	592	8.1	87	310	280	278	<10	58
	May-07					7.6	596	8.6	16	320	290	289	<10	54
	May-08					8.0	539	4.9	5	240	230	228	<10	60
	Oct-08					7.9	584	24	<1	320	270	268	<10	62
	May-09					8.01	611	45	<1.0	314	289	286	<10	54.7
	Oct-09					8.03	645	23	2	327	300	297	<10	52.7
	May-10		7.50	590	6.5	8.14	583	4.9	<5	295	294	294	<5	50.1
	Oct-10		7.35	690	11.3	8.27	577	4.8	<5	320	315	315	<5	39.9
	Jun-11		7.55	518	8.9	8.12	567	145	<5	292	303	303	<5	41.3
	Oct-11		7.29	559	11.5	8.29	525	802	<5	305	290	288	<5	45.9
	May-12		7.51	535	8.9	8.12	637	10.6	<5	306	235	235	<5	111
	Oct-12		7.81	526	10.0									
	May-13		7.86	649	7.1	8.26	604	131	<5	264	249	249	<5	67.4
	Oct-13		7.92	673	12.1	8.20	644	38.7	<5	288	312	312	<5	49.1
	May-14		7.59	663	5.7	8.18	617	249	<5	300	302	302	<5	32.0
	Oct-14		7.60	580	12.5	8.14	609	153	<5	269	308	308	<5	34.6
	May-15		7.41	440	7.2	8.08	562	518	<5	272	277	277	<5	28.3
	Oct-15		7.63	451	14.1	8.13	645	522	<5	302	305	305	<5	29.7
	May-16		7.70	467	7.6	8.14	544	198	<5	271	264	264	<5	38.7
	Oct-16		D	R	Y									
	May-17		7.73	483	7.39	8.18	619	364	<5	242	233	233	<5	64.1
	Oct-17		7.44	542	12.00	8.13	715	1580	<5	373	255	255	<5	158
581	Oct-87	FT				8.2	463			215				
	May-88					7.7	605			269				
	May-98					8.0	362			171				
	Jun-99					8.3	552			278				
	Oct-99					7.8	521			320				
	Jun-00					7.7	523	5.91	6	300				
	Oct-00					7.6	599	16.6	<5	282				
	May-01					8.0	551	17.3	6	317				
	Nov-01					8.1	614	16.3	<5	330				
	May-02					8.1	604	17.7	<5	300				
	Oct-02					8.1	589	18.8	<5	311				
	May-03					8.1	600	15.7	<5	317	255	252	3	57
	Oct-03					8.2	597	9.22	<5	326	269	265	4	54
	May-04					8.1	628	9.15	<2.5	254	272	269	3	50
	Oct-04					8.1	663	11.4	<2.5	319	251	248	3	42
	May-05					8.1	600	218	<5	321	238	290	<1	54
	Oct-05					8.2	637	424	<5	289	289	353		49
	May-06					7.8	569	28	93	340	270	268	<10	59
	Oct-06					7.9	572	7.9	65	340	270	268	<10	46
	May-07					7.7	605	4.9	8	370	260	259	<10	56
	Oct-07					8.1	622	10.4	44	320	280	277	<10	52
	May-08					8.1	554	7.5	7	270	230	227	<10	59
	Oct-08					7.7	576	15.3		310	240	239	<10	52
	May-09					8.06	606	35.0	<1.0	308	260	257	<10	55.9
	Oct-09					8.09	620	7.4	<1.0	309	267	264	<10	49.7
	May-10		7.59	570	6.9	8.19	581	4.5	<5	318	264	264	<5	56.4
	Oct-10		7.72	670	12.1	8.30	562	6.1	<5	326	279	275	<5	44.3
	Jun-11		7.83	542	11.8	8.17	568	116	<5	330	274	274	<5	48.1
	Oct-11		7.29	581	11.7	8.25	542	2390	<5	340	280	280	<5	45.7
	May-12					8.11	608	16.7	<5	309	267	267	<5	51.4
	Oct-12		7.68	494	13.3	8.23	521	297	<5	330	258	258	<5	45.9
	May-13		8.04	675	7.0	8.21	607	82.4	<5	292	242	242	<5	50.5

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Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
562	May-05	FT	64	3	0.50	1.1	23	33			0.40	0.0010	1.0	
cont.	Oct-05		72	3	0.60	2.0	33	19			<0.5	<0.001	1.3	
	May-06		75	4	0.30	1.0	24	34			0.30	<0.001	<0.7	
	Oct-06		74	4	0.50	2.0	31	33			0.20	<0.001	2.0	
	May-07		82	4	0.50	1.0	28	31			<0.2	<0.001	2.0	
	May-08		59	5	0.60	1.0	22	23			0.30	0.0050	2.0	
	Oct-08		83	9	0.60	2.0	28	24			0.30	<0.001	2.0	
	May-09		76.4	9.40	0.50	1.20	29.9	30.9	0.39	<0.10		<0.0010	2.3	
	Oct-09		82.3	4.00	0.53	1.60	29.5	23.9	<0.10	<0.10		0.0010	1.6	
	May-10		71.0	4.63	0.45	1.41	28.7	24.9	0.11	<0.05		<0.001	1.0	
	Oct-10		78.5	4.06	0.49	1.53	30.2	20.7	0.08	<0.05		<0.001	7.1	
	Jun-11		70.8	5.29	0.34	1.42	28.0	25.3	<0.05	<0.05		<0.001	2.5	
	Oct-11		72.6	4.74	0.57	1.46	30.1	21.8	<0.05	<0.05		<0.001	2.9	
	May-12		76.9	6.04	0.45	1.45	27.6	23.7	<0.05	<0.05		<0.001	3.9	
	Oct-12													
	May-13		61.9	6.09	0.54	1.11	26.6	20.6	<0.10	<0.10		<0.001	5.7	
	Oct-13		68.7	5.72	0.40	1.32	28.3	20.3	<0.10	<0.10		<0.001	3.8	
	May-14		73.1	6.26	0.36	1.10	28.6	25.4	<0.05	<0.05		<0.001	5.0	
	Oct-14		61.4	6.35	0.51	1.13	28.1	19.8	<0.10	<0.10		<0.001	2.6	
	May-15		65.2	5.91	0.37	1.17	26.5	20.3	<0.05	<0.05		<0.001	2.4	
	Oct-15		74.9	6.42	0.53	1.26	27.9	19.2	<0.10	<0.10		<0.001	2.6	
	May-16		63.5	7.17	0.49	1.15	27.2	19.4	<0.05	<0.05		<0.001	2.2	
	Oct-16													
	May-17		58.3	8.36	0.54	0.89	23.4	18.1	<0.05	<0.05		<0.001	1.9	
	Oct-17		85.4	4.82	0.41	1.80	38.7	19.0	<0.25	<0.25		<0.001	3.0	
581	Oct-87	FT	48	12	83	2.1	23	33				0.0010	4.3	
	May-88		63	6			27					0.0020	2.4	
	May-98		39	11	0.10	4.9	18	17				<0.001	3.7	
	Jun-99		62	3		1.5	30	19				<0.001	1.7	
	Oct-99		69	4	0.60	2.0	36	18				<0.001	1.1	
	Jun-00		69	4	0.50	1.5	31	29				0.0040	1.3	
	Oct-00		62	3	0.50	1.5	31	23				<0.001	0.8	
	May-01		72	4	0.50	1.5	34	21				<0.001	0.9	
	Nov-01		74	4	0.60	1.8	35	19					0.8	
	May-02		67	4	0.50	1.5	32	24				<0.002	0.6	
	Oct-02		69	4	0.50	1.7	34	18				<0.002	0.8	
	May-03		73	6	0.40	1.6	33	21				0.0020	0.8	
	Oct-03		74	5	0.50	1.6	35	18			5.44	<0.002	0.7	
	May-04		48	4	0.50	1.4	33	20				<0.002	0.8	<0.05
	Oct-04		71	5	0.60	1.7	35	18			4.10	<0.002	1.5	
	May-05		73	5	0.40	1.3	31	19			5.20	<0.001	0.8	
	Oct-05		75	4	<0.5	1.8	38	18			3.80	<0.001	1.0	
	May-06		82	6	0.20	1.0	32	28			4.60	<0.001	1.9	
	Oct-06		77	5	0.40	1.0	36	21			4.40	<0.001	2.0	
	May-07		89	6	0.40	1.0	36	17			4.70	<0.001	2.0	
	Oct-07		68	5	0.40	2.0	36	16			4.00	<0.001	<1	
	May-08		66	4	0.50	2.0	26	17			4.60	<0.001	2.0	
	Oct-08		75	10	0.50	2.0	30	18			5.50		2.0	
	May-09		70.6	10.20	0.42	1.3	32	14.1	4.52	<0.10		<0.0010	1.5	
	Oct-09		76.8	7.20	0.46	1.30	28.5	13.8	4.90	<0.10		<0.0010	1.3	
	May-10		72.9	5.01	0.36	1.42	32.9	14.0	5.56	<0.05		<0.001	0.7	
	Oct-10		74.9	4.15	0.44	1.63	33.7	14.2	5.17	<0.05		<0.001	7.6	
	Jun-11		76.3	5.35	0.45	1.59	33.8	12.9	5.46	<0.05		<0.001	3.8	
	Oct-11		76.6	5.55	0.38	1.66	36.1	13.6	7.04	<0.05		<0.001	5.8	
	May-12		68.9	5.05	0.33	1.41	33.2	13.0	5.56	<0.05		<0.001	19.6	
	Oct-12		73.5	5.52	0.36	1.79	35.5	14.4	5.84	<0.05		<0.001	1.9	
	May-13		65.3	5.03	<0.25	1.22	31.3	10.9	8.02	<0.25		<0.001	5.1	

Notes: - ODWQS - Ontario Drinking Water Quality Standard (June 2003)
 - NC - No criteria
 - MAC - Maximum Acceptable Concentration

- IMAC - Interim Maximum Acceptable Concentration
 - AO - Aesthetic Objective
 - OG - Operational Guideline

- † - sampled by Oxford County Board of Health



**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5	NC	NC	6.5 - 8.5	5	5	80 - 100	30 - 500	NC	NC	500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
581 cont.	Oct-13	FT	8.39	674	12.5	8.19	638	23.7	<5	299	298	298	<5	39.5
	May-14		7.75	667	6.8	8.21	622	115	<5	323	269	269	<5	45.0
	Oct-14		7.77	587	13.0	8.25	643	126	<5	303	295	295	<5	38.4
	May-15		7.50	462	8.3	8.08	585	139	<5	291	269	269	<5	38.4
	Oct-15		7.56	492	16.0	8.07	652	553	<5	326	286	286	<5	38.0
	May-16		7.32	480	8.2	8.09	560	199	<5	289	243	243	<5	45.6
	Oct-16		7.46	590	15.1	8.29	666	5560	<5	313	283	277	6	42.2
	May-17		7.73	456	8.55	8.19	552	354	<5	243	218	218	<5	46.5
Oct-17		7.05	426	13.41	8.15	550	542	<5	288	250	250	<5	42.0	
592	Oct-14	FT	7.33	690	12.3	8.25	738	1470	6	359	327	327	<5	63.9
	May-15		7.27	539	9.4	8.02	690	502	<5	350	335	335	<5	56.0
	Oct-15		7.43	560	13.7	8.05	765	605	<5	372	332	332	<5	56.3
	May-16		7.37	597	9.0	8.14	767	1910	<5	391	378	378	<5	61.9
	Oct-16		7.21	710	15.4	7.77	599	5450	5	305	280	280	<5	51.1
	May-17		7.20	614	10.21	8.23	758	3540	<5	347	333	333	<5	68.5
	Oct-17		6.75	557	13.44	8.25	703	1090	<5	393	358	358	<5	52.4
00-04	May-13	UT	8.09	793	10.6	8.18	719	518	<5	310	282	282	<5	44.9
	Oct-13		7.96	748	12.5	8.23	689	221	<5	293	293	293	<5	42.0
	May-14		7.81	774	10.0	8.09	762	292	<5	305	276	276	<5	52.4
	Oct-14		7.99	699	10.2	8.43	715	131	<5	312	257	246	12	46.3
	May-15		7.01	483	13.5	8.07	703	415	<5	275	275	275	<5	45.4
	Oct-15		7.11	519	13.9	8.07	699	138	<5	239	250	250	<5	43.9
	May-16		7.52	549	12.5	8.22	728	279	<5	273	279	279	<5	52.1
	Oct-16		7.60	690	17.1	8.34	735	271	<5	282	285	275	10	45.6
	May-17		7.88	649	10.50	8.28	788	412	<5	281	284	282	<5	48.6
Oct-17		7.57	529	14.33	8.21	690	61.9	5	274	289	289	<5	46.3	
023R	May-13	UT	7.51	1499	10.2	8.19	1350	15.3	<5	770	364	364	<5	404
	Oct-13		7.72	1415	11.6	8.13	1360	19.7	<5	850	393	393	<5	415
	May-14		7.21	1461	9.4	8.14	1410	21.1	<5	764	368	368	<5	418
	Oct-14		7.50	1222	10.9	8.32	1430	13.3	8	726	351	345	6	450
	May-15		7.35	931	13.6	8.20	1380	89.4	<5	730	372	372	<5	421
	Oct-15		7.19	974	11.2	8.08	1270	23.0	9	682	290	290	<5	426
	May-16		7.30	1027	15.0	8.10	1370	59.9	<5	766	344	344	<5	476
	Oct-16		7.14	1300	12.5	8.23	1380	66.4	<5	743	381	381	<5	426
	May-17		7.24	1220	9.42	8.20	1510	11.0	<5	725	384	384	<5	455
Oct-17		7.43	1050	11.85	8.13	1290	45.2	<5	761	390	390	<5	447	
03-3	May-13	UT	7.12	1492	8.1	8.02	1240	196	<5	491	335	335	<5	75.8
	May-14		7.09	1507	7.9	8.00	1480	340	<5	485	383	383	<5	66.5
	May-15		7.00	997	9.4	7.95	1480	1550	5	452	395	395	<5	66.0
	May-16		7.31	857	9.7	8.10	1240	916	6	439	371	371	<5	100
	May-17		7.04	967	8.40	8.21	1200	843	6	423	378	378	<5	105
03-4	May-13	UT	7.52	1709	8.3	8.11	1500	90.5	<5	605	310	310	<5	50.7
	May-14		7.32	1665	8.3	8.09	1640	80.5	<5	592	324	324	<5	56.5
	May-15		7.21	1061	10.3	7.94	1530	329	<5	584	301	301	<5	51.7
	May-16		7.33	1168	9.7	7.99	1560	64.4	<5	569	306	306	<5	54.4
	May-17		7.16	1530	9.08	8.07	1810	197	<5	1130	312	312	<5	48.7
03-5	May-13	UT	7.37	1663	8.8	8.10	1470	410	<5	666	401	401	<5	173
	May-14		7.41	1512	9.1	8.05	1500	1900	<5	601	430	430	<5	165
	May-15		7.41	974	14.0	8.00	1350	9900	<5	562	347	347	<5	151
	May-16		7.29	1098	9.8	8.06	1460	2990	<5	625	383	383	<5	179
	May-17		7.27	1520	9.89	8.10	1750	17800	<5	686	352	352	<5	237

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 · MAC - Maximum Acceptable Concentration · OG - Operational Guideline

**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
581	Oct-13	FT	70.3	4.38	0.25	1.28	30.1	12.2	5.20	<0.10		<0.001	2.8	
cont.	May-14		73.6	4.13	0.36	1.36	33.9	12.3	4.52	<0.05		<0.001	5.1	
	Oct-14		70.8	4.39	0.43	1.31	30.7	12.1	<0.10	<0.10		<0.001	2.3	
	May-15		65.4	3.72	0.29	1.26	30.9	12.1	3.95	<0.05		<0.001	3.7	
	Oct-15		76.6	6.85	0.40	1.57	32.7	13.8	6.00	<0.10		<0.001	3.7	
	May-16		63.0	4.73	0.36	1.27	31.9	11.6	5.66	<0.05		<0.001	2.6	
	Oct-16		71.0	4.44	0.30	1.55	32.9	11.3	5.09	<0.10		<0.001	1.6	
	May-17		56.1	3.92	0.38	1.14	24.9	8.94	5.37	<0.05		<0.001	2.1	
	Oct-17		65.1	3.27	0.32	1.61	30.5	10.9	4.40	<0.25		<0.001	2.1	
592	Oct-14	FT	84.3	7.88	<0.25	4.53	36.1	13.9	0.75	<0.25		<0.001	2.1	
	May-15		87.6	5.78	<0.10	2.37	31.8	8.31	<0.10	<0.10		<0.001	3.3	
	Oct-15		92.3	5.02	<0.25	2.69	34.4	9.90	<0.25	<0.25		<0.001	5.5	
	May-16		103	5.69	<0.25	2.07	32.5	18.4	<0.25	<0.25		<0.001	3.1	
	Oct-16		71.5	5.39	<0.05	2.15	30.8	9.35	0.07	<0.05		<0.001	3.0	
	May-17		89.8	4.60	<0.10	1.88	29.9	14.4	0.29	<0.10		<0.001	2.3	
	Oct-17		100	3.55	<0.25	2.34	34.9	9.98	<0.25	<0.25		<0.001	2.5	
00-04	May-13	UT	66.2	41.5	0.40	2.58	35.2	39.2	<0.25	<0.25		<0.001	6.8	
	Oct-13		61.0	40.2	<0.25	2.70	34.2	35.4	<0.25	<0.25		<0.001	3.6	
	May-14		64.9	51.2	0.38	2.50	34.6	38.1	<0.10	<0.10		<0.001	5.1	
	Oct-14		63.4	46.4	0.41	3.00	37.4	35.5	<0.25	<0.25		<0.001	1.8	
	May-15		52.7	47.9	0.44	3.02	34.9	40.0	<0.10	<0.10		<0.001	2.1	
	Oct-15		38.2	43.3	0.29	2.50	34.8	37.7	<0.25	<0.25		<0.001	3.4	
	May-16		53.4	49.2	<0.25	2.00	34.0	37.2	<0.25	<0.25		<0.001	1.9	
	Oct-16		55.2	48.1	<0.25	2.17	34.9	36.5	<0.25	<0.25		<0.001	2.1	
	May-17		54.1	46.3	0.46	2.22	35.5	41.1	<0.10	<0.10		<0.001	1.8	
	Oct-17		52.5	45.1	0.79	2.26	34.7	48.7	<0.10	<0.10		<0.001	1.9	
023R	May-13	UT	142	25.9	0.27	2.82	101	27.5	<0.25	<0.25		<0.001	5.5	
	Oct-13		154	24.2	<0.25	3.38	113	30.1	<0.25	<0.25		<0.001	4.3	
	May-14		141	23.6	<0.25	3.05	100	28.1	<0.25	<0.25		<0.001	6.5	
	Oct-14		128	25.4	<0.25	3.06	98.8	29.1	<0.25	<0.25		<0.001	3.3	
	May-15		139	25.5	0.20	2.84	92.9	30.2	<0.10	<0.10		<0.001	2.6	
	Oct-15		110	20.9	<0.25	3.31	98.8	31.1	<0.25	<0.25		<0.001	4.7	
	May-16		145	26.2	<0.25	2.92	98.0	31.5	<0.25	<0.25		<0.001	3.0	
	Oct-16		144	23.1	<0.25	2.85	93.2	27.3	<0.25	<0.25		<0.001	2.8	
	May-17		137	24.7	<0.25	3.06	92.9	27.9	<0.25	<0.25		<0.001	2.2	
	Oct-17		141	20.8	<0.25	2.94	99.2	29.6	<0.25	<0.25		<0.001	2.7	
03-3	May-13	UT	145	162	<0.25	5.03	31.2	96.7	1.62	<0.25		<0.001	5.2	
	May-14		145	228	<0.25	4.61	29.9	86.5	1.02	<0.25		<0.001	3.4	
	May-15		134	225	<0.25	5.94	28.6	136	0.55	<0.25		<0.001	5.2	
	May-16		130	152	<0.25	4.87	27.7	94.6	0.43	<0.25		<0.001	3.3	
	May-17		128	93.2	<0.25	3.97	25.0	56.1	0.33	<0.25		<0.001	3.8	
03-4	May-13	UT	151	293	<0.5	2.85	55.4	79.7	<0.5	<0.5		<0.001	6.7	
	May-14		153	331	<0.25	2.92	51.1	75.3	<0.25	<0.25		<0.001	2.6	
	May-15		148	302	<0.25	3.22	52.0	87.6	<0.25	<0.25		<0.001	3.7	
	May-16		144	322	<0.25	2.86	50.9	82.1	<0.25	<0.25		<0.001	3.0	
	May-17		292	323	<0.25	5.73	96.4	176	<0.25	<0.25		<0.001	2.7	
03-5	May-13	UT	141	172	<0.5	2.68	76.2	90.3	<0.5	<0.5		<0.001	4.7	
	May-14		132	176	<0.25	2.48	65.9	64.1	<0.25	<0.25		<0.001	7.2	
	May-15		117	168	<0.25	2.91	65.5	68.4	<0.25	<0.25		<0.001	4.3	
	May-16		137	188	<0.25	2.55	68.7	68.0	<0.25	<0.25		<0.001	3.4	
	May-17		153	205	<0.25	2.75	73.9	76.1	<0.25	<0.25		<0.001	4.1	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate		
			Field	µS/cm	NTU		TCU	mg/L	mg/L	mg/L	mg/L	mg/L				
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500		
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO		
											387			296		
03-7d	May-13	UT	8.05	545	9.3	8.11	506	29.3	<5	139	121	121	<5	111		
	Oct-13		7.98	519	12.2	8.07	485	30.9	8	136	124	124	<5	108		
	May-14		8.02	545	9.0	8.05	522	46.5	7	137	119	119	<5	123		
	Oct-14		8.30	470	10.8	7.99	496	24.6	17	124	112	112	<5	110		
	May-15		7.96	340	11.0	8.09	481	22.7	6	126	120	120	<5	103		
	Oct-15		8.06	337	13.9	7.91	461	119	7	103	107	107	<5	100		
	May-16		7.85	390	12.6	8.00	488	42.9	5	127	124	124	<5	111		
	Oct-16		7.85	490	16.5	8.00	463	28.8	8	129	125	125	<5	93.3		
	May-17		7.80	426	8.80	7.85	518	45.8	7	112	126	126	<5	98.5		
Oct-17		7.84	384	14.67	7.79	469	27.4	13	130	128	128	<5	102			
05-01	May-13	UT	7.86	568	10.0	8.34	506	53.6	<5	232	248	245	<5	30.3		
	Oct-13		7.69	561	11.1	8.14	518	81.4	<5	232	253	253	<5	35.8		
	May-14		7.84	564	9.5	8.10	567	135	<5	224	235	235	<5	41.8		
	Oct-14		7.97	493	10.4	8.39	569	586	13	238	241	233	8	45.1		
	May-15		7.77	376	11.8	8.53	528	181	<5	219	245	226	19	40.0		
	Oct-15		7.89	400	12.0	8.15	537	496	<5	219	235	235	<5	44.1		
	May-16		7.67	425	10.2	8.23	563	266	<5	218	255	255	<5	47.1		
	Oct-16		7.65	530	12.7	8.39	549	1230	<5	237	251	240	11	42.3		
	May-17		7.64	493	9.41	8.26	606	233	5	228	259	259	<5	41.4		
Oct-17		7.98	424	11.56	8.06	526	470	<5	238	253	253	<5	42.7			
232	Mar-86	UT				8.1	447			179						
	Jun-86					8.0	479			166						
	Oct-86					7.9	452			176						
	Apr-87					7.9	438			173						
	Oct-87					8.0	456			183						
	May-98					7.9	615			284						
	May-98					8.1	520			182						
	Nov-98					8.2	526			168						
	Jun-99					8.2	534			222						
	Oct-99					8.0	511			218						
	Jun-00					7.9	521	5.3	<5	253						
	Oct-00					7.2	577	36.2	<5	257						
	May-01					8.0	540	29.9	<5	266						
	Nov-01					8.1	570	30.0	<5	271						
	May-02					8.1	622	19.9	18	297						
	Oct-02					8.0	596	19.3	<5	294						
	May-03					8.1	678	20.3	<5	338	293	289	4	79		
Oct-03					8.2	631	132	<5	341	291	287	4	76			
May-04					8.1	680	5.9	3	258	292	289	3	81			
Oct-04					8.3	567	29.5	<2.5	301	208	204	3	73			
May-05					8.2	685	604	<5	347	274	334	<1	87.7			
232R	Oct-05	UT				8.3	562	38.3	52		228	278		71		
	May-06					7.8	503	6.1	66	300	230	229	<10	66		
	Oct-06					8.0	491	2.0	28	270	230	228	<10	53		
	May-07					7.9	486	1.8	21	260	220	219	<10	48		
	Oct-07					8.2	481	1.8	17	230	230	227	<10	40		
	May-08					8.0	479	1.5	15	220	230	228	<10	40		
	Oct-08					8.1	466	2.1	6	210	230	227	<10	37		
	May-09					8.19	474	2.2	7	216	226	223	<10	34.7		
	Oct-09					8.14	472	4.4	7	203	227	224	<10	31.7		
	May-10					8.00	470	9.6	8.21	437	4.1	8	200	224	<5	34.7
	Oct-10					7.80	530	10.1	8.29	434	6.1	8	207	224	<5	48.7
	Jun-11					8.04	453	10	8.24	492	15.0	6	225	233	<5	60.9
	Oct-11					7.54	514	11.2	8.35	490	30.8	<5	231	233	227	6
May-12					8.38	592	12.5	8.18	524	12.0	8	212	234	234	<5	55.2
Oct-12					7.92	420	12.8	8.46	471	35.3	<5	220	230	218	13	57.4

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
03-7d	May-13	UT	33.6	10.3	0.82	1.19	13.3	55.5	<0.10	<0.10		<0.001	3.9	
	Oct-13		33.0	10.4	1.02	1.31	12.9	51.2	<0.05	<0.05		<0.001	2.2	
	May-14		33.1	12.2	1.16	1.30	13.2	52.7	<0.05	<0.05		<0.001	6.5	
	Oct-14		29.4	11.8	1.04	1.19	12.3	48.4	<0.10	<0.10		<0.001	2.5	
	May-15		30.6	11.6	1.12	1.15	12.1	48.7	<0.05	<0.05		<0.001	2.1	
	Oct-15		23.6	11.1	0.95	1.28	10.6	51.3	<0.10	<0.10		<0.001	2.8	
	May-16		30.6	13.1	1.10	1.31	12.3	53.1	<0.05	<0.05		<0.001	3.2	
	Oct-16		31.4	11.8	1.02	1.21	12.4	44.7	0.05	<0.05		<0.001	2.4	
	May-17		27.2	10.9	1.17	1.26	10.8	54.2	<0.05	<0.05		<0.001	1.9	
Oct-17		32.4	11.7	0.97	1.63	11.9	49.5	0.37	0.06		<0.001	2.5		
05-01	May-13	UT	37.7	7.78	0.63	1.73	33.4	30.0	<0.10	<0.10		<0.001	2.1	
	Oct-13		38.7	8.41	0.73	2.04	32.9	27.9	<0.05	<0.05		<0.001	3.2	
	May-14		38.1	9.65	0.64	1.75	31.3	28.4	<0.05	<0.05		<0.001	5.3	
	Oct-14		39.1	10.1	0.72	1.95	34.1	29.3	<0.10	<0.10		<0.001	1.8	
	May-15		37.8	8.93	0.78	1.69	30.3	26.9	<0.10	<0.10		<0.001	2.6	
	Oct-15		34.5	9.18	0.67	1.91	32.2	29.8	<0.10	<0.10		<0.001	2.5	
	May-16		36.4	10.8	0.65	1.62	30.9	27.0	<0.10	<0.10		<0.001	2.3	
	Oct-16		40.6	9.37	0.67	1.83	33.0	25.9	<0.05	<0.05		<0.001	2.0	
	May-17		38.9	9.64	0.73	1.72	31.8	28.1	<0.05	<0.05		<0.001	1.5	
Oct-17		39.9	8.55	0.91	1.78	33.5	27.7	<0.10	<0.10		<0.001	1.7		
232	Mar-86	UT	37	10		2.5	21	23				0.0015	2.0	
	Jun-86		33	7		2.5	20	27				<0.001	1.8	
	Oct-86		36	6			21					<0.001	1.6	
	Apr-87		35	5			21					<0.001	2.2	
	Oct-87		35	3			23					<0.001	1.8	
	May-98		66	5			29					<0.001	1.7	
	May-98		34	6	0.7	1.4	24	52				<0.001	2.2	
	Nov-98		31	6	0.7	1.5	22	54				<0.001	2.1	
	Jun-99		42	6	0.6	2.2	28	50				<0.001	1.7	
	Oct-99		41	6	0.5	2.1	28	48				<0.001	0.6	
	Jun-00		50	7	0.5	2.0	31	43				0.0010	1.1	
	Oct-00		51	6	0.5	2.2	32	42				<0.001	1.0	
	May-01		54	7	0.5	2.3	32	41				<0.001	1.0	
	Nov-01		53	6	0.5	2.4	34	37				<0.001	1.0	
	May-02		58	7	0.4	2.1	37	31				<0.002	0.7	
	Oct-02		57	7	0.4	2.2	37	27				<0.002	0.7	
May-03		68	7	0.4	2.2	41	24				<0.002	0.9		
Oct-03		67	7	0.4	2.3	42	25			<0.1	<0.002	1.2		
May-04		36	8	0.5	2.4	41	25				<0.002	1.1	0.13	
Oct-04		62	6	0.0	3.3	35	22			1.46	<0.002	3.9		
May-05		75	6	0.5	2.2	43	23			0.30	0.0010	1.1		
232R	Oct-05	UT	42	3	0.70	3.6	33	30			<0.5	<0.001	4.9	
	May-06		52	3	0.60	3.0	41	32			<0.2	<0.001	3.9	
	Oct-06		48	3	0.90	2.0	36	31			<0.2	<0.001	3.0	
	May-07		45	3	0.80	2.0	35	32			<0.2	<0.001	4.0	
	Oct-07		41	2	0.80	2.0	31	32			0.20	<0.001	2.0	
	May-08		38	<2	0.90	2.0	30	29			0.20	<0.001	2.0	
	Oct-08		36	<2	0.90	2.0	30	31			0.20	<0.001	2.0	
	May-09		34	<2.0	0.88	1.80	32.2	27.7	<0.10	<0.10		<0.0010	2.3	
	Oct-09		34	2.10	0.95	1.80	28.5	30.6	<0.10	<0.10		0.0030	1.9	
	May-10		32.1	2.10	0.74	1.62	29.0	30.3	<0.05	<0.05		<0.001	1.3	
	Oct-10		33.7	2.48	0.92	1.66	29.9	31.6	<0.05	<0.05		<0.001	5.3	
	Jun-11		36.2	3.29	0.86	1.95	32.8	32.9	<0.05	<0.05		<0.001	3.6	
	Oct-11		38.2	3.60	0.85	1.70	33.0	35.3	<0.05	<0.05		<0.001	4.3	
May-12		34.4	3.90	0.79	1.62	30.7	32.9	<0.05	<0.05		<0.001	6.8		
Oct-12		36.7	4.49	0.79	1.73	31.2	35.0	<0.05	<0.05		<0.001	1.8		

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			Field	Field	Field		µS/cm	NTU	TCU		mg/L	mg/L	mg/L	mg/L
ODWQS			6.5 - 8.5	500	10.2	6.5 - 8.5	500	5	5	80 - 100	30 - 500			500
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
											387			296
232R	May-13	UT	8.09	590	10.2	8.31	556	50.3	<5	206	239	237	<5	119
cont.	Oct-13		8.35	581	10.8	8.35	527	12.5	<5	206	229	225	<5	55.4
	May-14		7.90	574	9.2	8.27	537	40.2	<5	221	227	227	<5	55.4
	Oct-14		8.06	502	12.4	8.24	554	21.2	<5	206	238	238	<5	60.3
	May-15		7.89	387	15.6	8.29	525	23.6	<600	199	229	227	<5	52.1
	Oct-15		8.03	387	13.2	7.88	541	8.6	<5	203	222	222	<5	51.0
	May-16		7.95	438	8.8	8.10	524	12.3	<5	201	235	235	<5	47.5
	Oct-16		7.62	480	13.2	8.55	407	6.6	18	183	260	260	<5	41.0
	May-17		7.76	467	9.96	8.25	550	13.4	5	185	233	233	<5	41.5
	Oct-17		7.07	389	10.90	8.29	498	266	<5	201	228	228	<5	45.6
381	Mar-86	UT				7.9	575			221				
	Jun-86					8.0	585			206				
	Oct-86					8.2	500			188				
	Apr-87					7.7	565			239				
	May-88					7.7	550			254				
	Oct-88					7.7	571			286				
	May-89					8.0	566			259				
	Oct-89					7.8	572			258				
	May-90					7.8	570			264				
	Oct-90					8.1	578			271				
	May-91					7.8	578			261				
	Nov-91					7.8	589			277				
	May-92					7.9	540			248				
	Oct-92					7.8	573			280				
	Apr-93					7.9	594			285				
	Apr-93					7.9	596			283				
	Nov-93					7.8	580			284				
	May-94					8.0	618			310				
	Oct-94					8.0	594			303				
	May-95					7.8	633			306				
	Oct-95					7.8	611			290				
	May-97						597			314				
	Oct-97						610			296				
	May-98					7.9	595			298				
	Nov-98					7.9	625			281				
	Oct-00					7.7	432	29.0	8	273				
	May-01					7.9	502	17.3	<5	292				
	Nov-01					8.1	858	6.9	<5	325				
	May-02					8.2	640	6.8	<5	310				
	Oct-02					8.1	616	3.4	<5	323				
	May-03					8.2	661	11.2	<5	342	350	345	5	31
	Oct-03					8.1	647	7.4	<5	331	348	344	4	26
	May-04					8.1	588	4.0	4	264	335	331	4	32
381R	Oct-04	UT				7.9	1010	20.1	30	497	267	265	2	113
	May-05					8.2	910	46.2	12	426	342	417	<1	153
	Oct-05					8.1	869	54.2	14		378	461		115
	May-06					7.7	768	3.6	39	490	370	368	<10	103
	Oct-06					7.7	757	4.1	19	420	350	348	<10	89
	May-07					7.5	753	1.6	7	450	360	359	<10	85
	Oct-07					7.6	759	2.4	7	380	370	369	<10	81
	May-08					7.9	784	1.7	4	400	280	278	<10	92
	Oct-08					7.8	766	1.8	2	410	370	368	<10	82
	May-09					7.99	768	3.5	2	379	363	360	<10	84.6
	Oct-09					7.96	793	2.1	2	412	378	375	<10	75.0
	May-10		7.69	750	7.9	8.17	708	2.3	7	392	349	349	<5	84.9
	Oct-10		7.50	840	12.3	8.25	707	5.2	<5	420	369	369	<5	83.4
	Jun-11		7.74	690	11.3	8.08	720	126	<5	419	353	353	<5	91.0

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Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
232R	May-13	UT	33.3	8.78	1.79	1.53	29.8	34.5	0.23	<0.10		<0.001	6.2	
cont.	Oct-13		34.1	4.52	0.90	1.58	29.3	34.7	0.11	<0.05		<0.001	3.1	
	May-14		35.6	4.65	0.92	1.59	32.2	35.8	0.10	<0.05		<0.001	5.5	
	Oct-14		34.2	5.61	0.81	1.64	29.3	35.4	<0.05	<0.05		<0.001	3.4	
	May-15		33.0	5.39	0.93	1.52	28.2	36.8	0.16	<0.05		<0.001	7.0	
	Oct-15		33.5	6.38	0.70	1.54	29.0	38.0	0.19	<0.05		<0.001	2.2	
	May-16		32.2	5.94	0.84	1.47	29.3	37.4	0.17	<0.05		<0.001	1.6	
	Oct-16		29.6	5.88	0.92	1.45	26.6	30.1	0.10	<0.05		<0.001	1.6	
	May-17		29.6	6.01	1.04	1.45	27.0	35.4	0.12	<0.05		<0.001	1.1	
	Oct-17		32.4	6.63	0.86	1.46	29.2	37.9	0.16	<0.05		<0.001	2.1	
381	Mar-86	UT	45	5		2.2	27	39				0.0010	2.3	
	Jun-86		41	6		2.8	25	40				0.0015	2.0	
	Oct-86		32	6			27					0.0020	1.7	
	Apr-87		47	5			29					0.0010	2.7	
	May-88		52	5			30					0.0015	1.5	
	Oct-88		63	5			31	24				0.0015	2.0	
	May-89		50	5			32					0.0010	1.8	
	Oct-89		53	5			31					0.0015	0.8	
	May-90		55	6			31					0.0010	0.9	
	Oct-90		56	6			32					0.0015	1.8	
	May-91		52	5			32					0.0045	0.9	
	Nov-91		56	6			33					0.0065	2.1	
	May-92		42	6			35					0.0010	2.0	
	Oct-92		56	6			34					0.0015	1.6	
	Apr-93		53	6		2.1	37	25				0.0010	1.2	
	Apr-93		54	6			36					0.0010	1.1	
	Nov-93		58	6			34					0.0010	1.6	
	May-94		63	5		1.9	37	25				0.0010	2.0	
	Oct-94		61	5		2.1	36	25				0.0011	1.7	
	May-95		61	6		2.0	37	25				0.0010	2.1	
	Oct-95		59	6		2.1	34	26				0.0010	3.0	
	May-97		62	6		1.8	39	26				0.0010	2.9	
	Oct-97		63	1		2.0	34	25				0.0010	2.5	
	May-98		59	7	0.60	2.0	37	25				<0.001	4.1	
	Nov-98		57	9	0.70	2.1	33	26				<0.001	2.2	
	Oct-00		48	6	0.60	1.9	37	26				<0.001	1.0	
	May-01		60	5	0.50	1.8	35	22				<0.001	1.0	
	Nov-01		67	8	0.66	1.9	38	26				<0.001	0.9	
	May-02		59	7	0.62	1.8	40	25				<0.002	0.9	
	Oct-02		66	7	0.55	2.2	39	26				<0.002	0.6	
	May-03		69	8	0.62	1.9	41	27				<0.002	1.3	
	Oct-03		68	8	0.61	2.0	39	26			<0.1	<0.002	1.0	
	May-04		41	7	0.65	1.8	39	25				<0.002	1.0	0.12
381R	Oct-04	UT	105	6	0.30	6.1	57	28			<0.1	<0.002	8.2	
	May-05		110	6	0.40	4.1	58	54			<0.1	0.0010	3.3	
	Oct-05		89	5	<0.5	3.7	51	32			<0.5	<0.001	3.3	
	May-06		101	6	0.30	3.0	58	28			<0.2	<0.001	2.2	
	Oct-06		82	5	0.40	3.0	52	26			<0.2	<0.001	3.0	
	May-07		95	5	0.30	3.0	52	26			<0.2	0.0010	2.0	
	Oct-07		72	4	0.30	3.0	48	26			<0.2	<0.001	2.0	
	May-08		85	4	0.40	2.0	46	22			<0.1	<0.001	1.0	
	Oct-08		89	4	0.40	3.0	46	21			<0.1	<0.001	2.0	
	May-09		68.5	3.40	0.31	2.40	50.5	23.6	<0.10	<0.10		<0.0010	2.3	
	Oct-09		86.3	3.20	0.34	2.50	47.7	22.0	<0.10	<0.10		<0.0010	1.9	
	May-10		78.3	3.03	0.22	2.10	47.7	22.1	<0.05	<0.05		<0.001	1.6	
	Oct-10		86.1	3.18	0.31	2.55	49.7	22.2	<0.05	<0.05		0.0010	5.2	
	Jun-11		85.7	3.62	<0.05	2.44	49.8	20.0	<0.05	<0.05		<0.001	4.2	

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003)
 · NC - No criteria
 · MAC - Maximum Acceptable Concentration

· IMAC - Interim Maximum Acceptable Concentration
 · AO - Aesthetic Objective
 · OG - Operational Guideline

· † - sampled by Oxford County Board of Health



**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			Field	Field	Field		µS/cm	NTU	TCU		mg/L	mg/L	mg/L	mg/L
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
											387			296
381R cont.	Oct-11	UT	6.89	741	11.7	8.33	733	379	<5	439	384	374	9	95.2
	May-12		7.75	910	10.1	8.11	795	10.3	<5	412	361	361	<5	106.0
	Oct-12		7.38	635	12.1	8.27	631	329	<5	415	327	327	<5	88.4
	May-13		7.50	920	8	8.17	778	99.3	<5	446	353	353	<5	93.3
	Oct-13		7.88	883	11.8	8.17	858	39.5	<5	428	408	408	<5	88.1
	May-14		7.35	887	7.3	8.20	835	194	<5	451	380	380	<5	90.2
	Oct-14		7.40	783	12.4	8.29	848	154	<5	397	395	392	<5	36.7
	May-15		7.33	610	9.1	8.10	797	621	<5	397	371	371	<5	89.9
	Oct-15		6.83	621	13.8	8.16	878	283	<5	436	385	385	<5	88.1
	May-16		6.89	676	8.1	8.17	813	204	<5	427	376	376	<5	94.6
	Oct-16		6.81	810	14.9	8.24	906	450	12	442	429	429	<5	90.1
May-17		7.36	761	8.33	8.29	918	357	<5	403	399	375	24	98.4	
Oct-17		7.43	662	13.60	8.17	837	163	<5	458	419	419	<5	87.9	
593	Oct-14	UT	7.73	430	10.3	8.41	493	14300	6	199	210	202	8	38.7
	May-15		7.89	376	11.4	8.22	503	7940	<5	208	217	217	<5	55.6
	Oct-15		7.85	385	10.7	8.02	561	602	<5	239	211	211	<5	64.7
	May-16		7.51	425	11.5	8.14	557	2500	<5	228	233	233	<5	75.9
	Oct-16		7.87	510	12.5	8.21	489	2900	6	208	250	250	<5	68.0
	May-17		7.57	530	10.50	8.23	658	2550	<5	242	241	241	<5	93.4
	Oct-17		7.14	429	12.50	8.10	576	1630	<5	256	236	236	<5	86.6
551	Oct-87	ITS				8.1	422			206				
	May-88					8.0	445			198				
	Oct-88					7.8	460			196				
	May-89					8.0	468			202				
	Oct-89					7.9	454			197				
	May-90					8.0	456			201				
	Oct-90					8.1	461			207				
	May-91					8.1	460			205				
	Nov-91					8.0	463			214				
	May-92					8.1	459			213				
	Oct-92					8.0	461			234				
	Apr-93					8.1	459			230				
	Nov-93					7.9	463			224				
	May-94					8.2	464			230				
	Oct-94					7.7	1167			296				
	May-95					7.8	1910			452				
	Oct-95					7.9	883			186				
	May-97						1060			319				
	Oct-97						675			208				
	May-98					7.8	803			224				
	Nov-98					8.0	474			109				
Jun-99					8.0	463			118					
Oct-99					8.0	561			216					
Jun-00					7.8	671	16	25	234					
Oct-00					7.6	718	97	27	248					
May-01					8.1	784	558	62	143					
Nov-01					8.0	1180	18	<5	322					
May-02					8.1	762	125	34	229					
Oct-02					8.0	710	108	50	218					
551R	May-03	ITS				8.2	497	13.2	<5	254	245	241	4	31
	Oct-03					8.2	470	7.0	<5	251	243	240	3	28
	May-04					8.2	504	4.8	3	202	240	237	3	33
	Oct-04					8.3	512	11.9	<2.5	239	226	222	4	30
	May-05					8.2	500	75.5	<5	250	227	277	<1	28
	Oct-05					8.3	514	234	<5		249	304		27
	May-06					7.8	464	40.0	180	300	240	238	<10	32
Oct-06					8.0	464	7.1	56	290	240	238	<10	30	

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
· NC - No criteria · AO - Aesthetic Objective
· MAC - Maximum Acceptable Concentration · OG - Operational Guideline

**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
381R cont.	Oct-11	UT	90.3	3.60	<0.05	2.48	51.9	22.3	<0.05	<0.05		<0.001	14.2	
	May-12		82.5	3.41	<0.05	2.14	50.1	22.0	<0.05	<0.05		<0.001	5.3	
	Oct-12		80.3	3.47	0.31	2.77	52.0	23.6	<0.05	<0.05		<0.001	1.9	
	May-13		89.0	3.27	0.28	2.22	54.3	22.9	<0.25	<0.25		<0.001	4.4	
	Oct-13		89.5	3.10	<0.25	2.41	49.7	22.5	<0.25	<0.25		<0.001	4.0	
	May-14		90.9	3.21	0.28	2.62	54.4	22.7	<0.05	<0.05		<0.001	5.4	
	Oct-14		79.1	1.60	<0.10	2.33	48.4	21.8	<0.10	<0.10		<0.001	3.5	
	May-15		79.6	4.33	0.27	2.13	48.2	23.1	<0.10	<0.10		<0.001	4.4	
	Oct-15		93.0	5.84	<0.25	2.61	49.5	23.3	<0.25	<0.25		<0.001	4.6	
	May-16		88.0	6.03	<0.25	2.33	50.3	22.3	<0.25	<0.25		<0.001	2.2	
	Oct-16		92.6	5.18	<0.25	2.39	51.2	20.4	<0.25	<0.25		<0.001	2.3	
May-17		82.8	5.02	0.21	2.12	47.7	25.7	<0.10	<0.10		<0.001	2.1		
Oct-17		98.7	4.43	<0.25	2.37	51.3	22.8	<0.25	<0.25		<0.001	2.5		
593	Oct-14	UT	33.0	3.67	0.57	3.15	28.3	17.6	0.20	<0.10		<0.001	1.9	
	May-15		36.1	4.29	0.33	2.11	28.6	24.8	0.13	<0.05		<0.001	2.4	
	Oct-15		41.6	3.79	0.36	2.42	32.9	29.1	0.11	<0.10		<0.001	2.6	
	May-16		38.5	4.58	0.47	2.25	32.0	31.3	0.09	<0.05		<0.001	2.2	
	Oct-16		34.0	3.82	0.40	1.62	29.8	24.4	<0.05	<0.05		<0.001	1.0	
	May-17		42.0	4.45	0.56	1.99	33.3	32.5	0.06	<0.05		<0.001	1.3	
	Oct-17		44.0	4.07	0.40	1.87	35.6	31.8	<0.25	<0.25		<0.001	1.5	
551	Oct-87	ITS	39	8			26					0.0015	2.4	
	May-88		38	5		4.1	25	21				0.0010	1.9	
	Oct-88		37	5			25	19				0.0015	4.4	
	May-89		38	6			26					0.0020	2.5	
	Oct-89		36	4			26					0.0015	0.8	
	May-90		38	4			26					0.0010	0.8	
	Oct-90		40	4			26					0.0015	1.2	
	May-91		38	2			27					0.0035	0.8	
	Nov-91		40	3			28					0.0065	1.1	
	May-92		38	4			29						1.3	
	Oct-92		44	3			30					0.0010	1.3	
	Apr-93		44	3			29					0.0010	2.6	
	Nov-93		43	3			28					0.0010	2.4	
	May-94		43	2		1.3	30	16				0.0266	1.7	
	Oct-94		97	255		7.6	13	116				0.0056	13.5	
	May-95		147	439		3.2	21	208				0.0026	7.6	
	Oct-95		64	168		5.1	7	102				0.0030	11.9	
	May-97		107	138		1.8	13	126				0.0010	9.1	
	Oct-97		69	65		2.3	9	62				0.0010	12.5	
	May-98		75	106	0.20	1.8	9	93				<0.001	8.1	
Nov-98		37	67	0.40	2.6	4	51				<0.001	12.6		
Jun-99		39	57	0.50	3.1	5	60				<0.001	10.7		
Oct-99		69	61	0.30	3.7	11	52				<0.001	3.9		
Jun-00		75	76	0.40	2.1	11	77				0.0030	6.2		
Oct-00		80	64	0.30	3.0	12	64				<0.001	6.3		
May-01		47	122	0.30	2.7	6	143				<0.001	7.0		
Nov-01		108	214	0.20	1.9	13	140				<0.001	4.5		
May-02		72	82	0.30	1.6	12	87				<0.002	4.6		
Oct-02		72	72	0.30	3.6	10	72				<0.002	9.7		
551R	May-03	ITS	51	6	0.81	1.3	31	15				0.0020	0.7	
	Oct-03		51	6	0.84	1.2	30	14			<0.1	<0.002	1.0	
	May-04		32	6	0.98	1.2	30	14				<0.002	0.8	0.12
	Oct-04		47	5	0.96	1.3	30	14			<0.1	<0.002	1.2	
	May-05		53	5	0.80	1.3	33	15			0.10	0.0010	0.9	
	Oct-05		52	5	0.70	0.8	31	17			<0.5	<0.001	0.7	
	May-06		60	7	0.80	1.0	35	14			<0.2	<0.001	<0.7	
	Oct-06		60	7	0.80	1.0	34	15			<0.2	<0.001	1.0	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
														296
551R	May-07	ITS				7.8	480	5.8	<1	290	230	229	<10	31
cont.	Oct-07					8.1	492	7.2	11	270	240	237	<10	28
	May-08					8.1	499	5.5	10	220	250	247	<10	32
	Oct-08					8.0	478	40.0	<1	260	240	238	<10	31
	May-09					8.01	502	31.0	<1.0	262	243	241	<10	31.3
	Oct-09					8.18	502	4.3	2	260	228	225	<10	31.4
	May-10		7.98	390	10.0	8.20	470	2.7	<5	248	235	235	<5	34.8
	Oct-10		7.75	530	10.3	8.34	425	7.9	<5	250	244	239	5	33.7
	Jun-11		7.82	439	10.3	8.12	460	146	<5	247	232	232	<5	36.1
	Oct-11		7.61	455	10.1	8.36	443	1290	<5	258	234	227	7	37.3
	May-12		7.95	570	12.1	8.10	482	5.6	<5	223	239	239	<5	31.4
	Oct-12		7.81	401	11.0	8.30	419	1140	<5	230	225	223	<5	33.7
	May-13		8.13	562	10.4	8.23	497	91.2	<5	265	227	227	<5	35.1
	Oct-13		8.20	543	10.9	7.80	502	89.5	<5	253	240	240	<5	35.3
	May-14		7.67	540	10.5	7.65	524	134	<5	245	223	223	<5	39.2
	Oct-14		8.12	475	9.7	8.32	530	86.0	8	241	229	227	<5	38.8
	May-15		7.62	369	14.7	8.34	507	98.5	<5	241	232	226	6	36.6
	Oct-15		7.63	370	12.0	8.17	524	376	<5	253	226	226	<5	37.3
	May-16		7.79	421	12.0	8.26	510	19.1	<5	243	240	240	<5	41.4
	Oct-16		7.57	480	14.1	8.16	485	84.7	<5	239	256	256	<5	35.7
	May-17		7.77	457	10.18	8.34	540	60.6	<5	233	223	216	7	39.0
	Oct-17		7.73	392	11.17	7.51	483	48.8	9	239	238	238	<5	37.7
561	May-88	ITS				8.0	388			173				
	Feb-90													
	May-98					8.1	388			186				
	Nov-98					8.2	39			174				
	Jun-99					8.2	377			193				
	Oct-99					8.1	362			190				
	Jun-00					8.0	369	2.6	<5	193				
	Oct-00					7.9	430	25.0	<5	189				
	May-01					8.2	346	35.4	<5	201				
	Nov-01					8.2	374	24.0	<5	197				
	May-02					8.2	397	22.8	<5	200				
	Oct-02					8.1	368	20.4	<5	186				
	May-03					8.2	392	25.0	<5	200	220	216	4	10
	Oct-03					8.3	389	15.4	<5	200	216	212	4	10
	May-04					8.1	413	9.9	3	183	211	208	3	14
	Oct-04					8.3	419	56.4	<2.5	188	202	199	3	10
	May-05					8.3	402	2210	50	187	203	247	<1	10
	Oct-05					8.2	393	3360	6		224	273		8
	May-06					8.0	362	54	1400	210	220	218	<10	11
	Oct-06					8.1	366	12	170	240	210	207	<10	9
	May-07					8.0	380	11	18	200	200	198	<10	9
	Oct-07					8.2	384	9	19	200	210	207	<10	6
	May-08					8.2	394	58	7	200	220	216	<10	11
	Oct-08					8.1	382	40	<1	200	210	207	<10	9
	May-09					8.23	396	42	<1.0	189	213	210	<10	9.90
	Oct-09					8.29	393	17.6	<1.0	185	207	203	<10	8.70
	May-10		7.92	380	8.4	8.16	370	5.5	<5	184	209	209	<5	9.47
	Oct-10		7.69	420	8.6	8.39	339	8.1	<5	186	220	212	8	8.82
	Jun-11		8.15	340	10.6	8.24	358	244	<5	192	203	203	<5	10.1
	Oct-11		7.69	562	9.5	8.38	353	1600	<5	191	207	200	7	9.86
	May-12		8.38	444	10.5	8.17	391	16.8	<5	183	212	212	<5	9.06
	Oct-12		7.97	309	9.8	8.47	337	137	<5	187	207	195	11	8.77
	May-13		8.17	441	9.5	8.28	402	281	<5	180	206	206	<5	9.47
	Oct-13		8.35	440	10	8.29	400	81.6	<5	183	218	218	<5	8.93
	May-14		8.01	419	9.1	8.25	399	1010	<5	197	205	205	<5	9.53
	Oct-14		8.13	366	10.4	8.29	407	3260	<5	176	207	207	<5	9.72

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
551R	May-07	ITS	61	7	0.70	1.0	34	14			<0.2	<0.001	1.0	
cont.	Oct-07		58	7	0.70	1.0	31	14			<0.2	<0.001	<1	
	May-08		48	6	0.80	2.0	24	14			<0.1	<0.001	<1	
	Oct-08		56	6	0.80	1.0	29	13			<0.1	<0.001	1.0	
	May-09		49.4	12.1	0.78	1.40	33.7	14.3	0.24	<0.10		<0.0010	1.2	
	Oct-09		56.0	6.2	0.81	1.30	29.3	13.2	<0.10	<0.10		<0.0010	1.9	
	May-10		50.0	6.71	0.75	1.37	29.8	13.6	<0.05	<0.05		<0.001	0.6	
	Oct-10		51.0	6.16	0.80	1.31	29.8	13.1	0.06	<0.05		0.0020	1.4	
	Jun-11		49.3	7.11	0.72	1.50	30.0	13.3	<0.05	<0.05		<0.001	1.8	
	Oct-11		52.2	6.96	0.73	1.26	31.1	13.4	<0.05	<0.05		<0.001	7.4	
	May-12		43.6	6.84	0.64	1.22	27.8	12.3	<0.05	<0.05		<0.001	5.7	
	Oct-12		46.7	6.85	0.67	1.44	27.5	12.4	<0.05	<0.05		<0.001	1.0	
	May-13		52.5	7.34	0.76	1.25	32.6	13.3	<0.10	<0.10		<0.001	4.1	
	Oct-13		50.6	7.01	0.74	1.28	30.8	12.9	<0.05	<0.05		<0.001	1.7	
	May-14		50.2	7.77	0.70	1.25	29.1	12.7	<0.05	<0.05		<0.001	2.2	
	Oct-14		46.4	7.63	0.72	1.31	30.4	13.5	<0.10	<0.10		<0.001	0.7	
	May-15		49.5	7.46	0.77	1.30	28.4	13.4	<0.05	<0.05		<0.001	2.1	
	Oct-15		52.4	8.99	0.76	1.51	29.7	14.3	<0.10	<0.10		<0.001	1.5	
	May-16		49.0	8.03	0.81	1.24	29.3	13.3	<0.05	<0.05		<0.001	1.7	
	Oct-16		47.1	7.21	0.72	1.25	29.5	12.5	<0.05	<0.05		<0.001	1.3	
	May-17		47.1	7.69	0.68	1.14	28.0	12.0	<0.05	<0.05		<0.001	0.9	
	Oct-17		47.5	6.73	0.84	1.19	29.3	12.8	<0.05	0.06		<0.001	1.2	
561	May-88	ITS	33	2			22					0.0010	1.5	
	Feb-90													
	May-98		33	2	1.00	1.8	25	15				<0.001	2.3	
	Nov-98		30	2	1.00	1.6	24	16				<0.001	1.8	
	Jun-99		35	1	1.10	1.7	26	16				<0.001	2.4	
	Oct-99		32	<1	1.10	1.6	27	16				<0.001	0.5	
	Jun-00		34	1	1.10	1.4	26	16				0.0040	0.5	
	Oct-00		33	<1	1.00	1.3	26	16				<0.001	<0.5	
	May-01		36	1	1.10	1.5	27	16				<0.001	0.8	
	Nov-01		35	1	1.10	1.3	27	16				<0.001	0.6	
	May-02		35	1	1.10	1.5	27	15				<0.002	0.5	
	Oct-02		32	2	1.00	1.4	26	15				<0.002	0.5	
	May-03		35	1	1.00	1.4	27	17				<0.002	0.6	
	Oct-03		34	1	1.10	1.7	28	17			0.16	<0.002	0.7	
	May-04		30	2	1.10	1.4	26	16				<0.002	0.8	0.10
	Oct-04		32	1	1.20	1.3	26	17			0.15	<0.002	2.1	
	May-05		35	1	1.10	1.4	25	16			0.10	<0.001	2.9	
	Oct-05		35	<1	<0.5	1.5	27	17			<0.2	<0.001	1.0	
	May-06		38	<2	0.70	1.0	28	15			0.20	<0.001	<0.7	
	Oct-06		46	<2	1.00	1.0	30	17			0.20	<0.001	1.0	
	May-07		37	<2	1.10	1.0	27	15			<0.1	<0.001	2.0	
	Oct-07		36	<2	0.90	1.0	26	16			0.20	<0.001	<1	
	May-08		35	<2	1.00	1.0	26	15			0.20	<0.001	1.0	
	Oct-08		38	6	1.10	2.0	27	17			0.30	<0.001	<1	
	May-09		31.6	<2.0	0.95	1.20	26.7	13.9	0.20	<0.10		<0.0010	1.2	
	Oct-09		34.5	<2.0	1.05	1.30	23.9	14.4	0.12	<0.10		<0.0010	1.1	
	May-10		33.1	0.61	0.95	1.52	24.7	15.0	<0.05	<0.05		<0.001	0.6	
	Oct-10		33.6	0.71	0.98	1.28	24.9	14.5	<0.05	<0.05		<0.001	6.8	
	Jun-11		34.1	1.00	0.95	1.55	25.9	14.6	<0.05	<0.05		<0.001	2.2	
	Oct-11		34.1	0.88	0.95	1.24	25.8	14.8	<0.05	<0.05		<0.001	3.6	
	May-12		32.6	1.14	1.00	1.32	24.6	14.5	0.10	<0.05		<0.001	2.5	
	Oct-12		33.5	1.21	0.85	1.31	25.1	15.2	<0.05	<0.05		<0.001	1.0	
	May-13		31.9	0.74	1.02	1.29	24.4	14.0	<0.10	<0.10		<0.001	2.7	
	Oct-13		33.0	1.04	1.08	1.39	24.5	14.8	<0.05	<0.05		<0.001	2.3	
	May-14		35.2	0.90	0.93	1.59	26.4	15.3	<0.05	<0.05		<0.001	5.0	
	Oct-14		31.5	0.37	1.02	1.21	23.6	14.9	<0.05	<0.05		<0.001	<0.5	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
561 cont.	May-15	ITS	8.01	290	11.1	8.41	393	4740	<5	174	208	197	10	9.49
	Oct-15		7.87	293	10.9	8.14	406	1640	<5	173	203	203	<5	9.47
	May-16		7.50	318	9.9	8.21	399	2330	<5	186	208	208	<5	11.1
	Oct-16		7.76	380	12.7	8.24	420	1120	<5	175	214	214	<5	9.02
	May-17		7.92	354	9.42	8.26	427	678	<5	168	217	214	<5	9.53
	Oct-17		7.60	299	10.50	8.17	375	1260	<5	185	212	212	<5	9.09
571	May-88	ITS				7.8	530			239				
	Feb-90													
	May-98					8.0	362			171				
	Nov-98					8.1	398			160				
	Jun-99					8.1	411			220				
	Oct-99					7.7	397			219				
	Jun-00					7.9	408	3.6	6	224				
	Oct-00					7.8	443	15.4	<5	215				
	May-01					8.1	384	31.8	<5	236				
	Nov-01					8.0	430	16.0	<5	229				
	May-02					8.1	436	17.6	<5	226				
	Oct-02					8.1	414	16.8	<5	218				
	May-03					8.1	439	16.1	<5	232	239	236	3	14
	Oct-03					8.2	438	8.4	<5	233	234	231	3	13
	May-04					8.1	457	6.6	<2.5	172	232	229	2	17
	Oct-04					8.2	459	10.1	<2.5	219	211	208	3	14
	May-05					8.2	429	288	<5	227	218	266	<1	13
	Oct-05					8.3	454	193	<5		242	295		15
	May-06					7.8	418	34.0	310	250	240	238	<10	14
	Oct-06					8.0	409	8.5	41	320	230	228	<10	13
	May-07					7.8	426	7.6	11	250	230	229	<10	13
	Oct-07					8.1	427	12.2	18	240	230	227	<10	11
	May-08					8.1	435	5.2	4	220	240	237	<10	14
	Oct-08					8.1	431	23.0	<1	230	230	227	<10	14
	May-09					8.12	442	36.0	<1.0	238	230	227	<10	13.5
	Oct-09					8.18	441	6.7	<1.0	219	226	223	<10	13.3
	May-10			7.94	440	9.4	8.20	410	4.4	<5	219	238	238	<5
Oct-10			7.82	450	9.4	8.36	375	4.0	<5	217	226	219	7	13.8
Jun-11			7.87	359	10.9	8.22	398	60.0	<5	225	223	223	<5	15.8
Oct-11			7.54	410	9.7	8.37	391	980	<5	227	229	222	6	15.6
May-12			7.74	421	10	8.21	430	9.0	<5	223	231	231	<5	14.5
Oct-12			7.73	346	10	8.33	358	148	<5	219	213	208	5	13.9
May-13			7.97	491	10	8.31	450	55.6	<5	208	223	221	<5	14.5
Oct-13			8.44	481	9.5	8.32	443	36.3	<5	208	236	233	<5	14.3
May-14			7.78	467	9.9	8.17	445	45.6	<5	227	224	224	<5	14.4
Oct-14			7.99	4.1	11.2	8.31	444	160	7	209	227	225	<5	15.7
May-15			7.79	326	10.8	8.32	439	197	<5	209	225	220	<5	14.9
Oct-15			7.71	327	11.0	8.09	455	161	<5	222	220	220	<5	15.3
May-16			7.78	367	10.7	8.17	452	96.3	<5	219	233	233	<5	16.1
Oct-16			7.56	430	12.3	8.21	472	166	<5	218	229	229	<5	15.3
May-17			7.65	392	9.79	8.20	484	51.7	<5	200	232	232	<5	15.7
Oct-17			7.26	333	11.12	7.95	428	64.3	<5	219	229	229	<5	14.8
032	Oct-85	ITS				7.5	760			375				69
	Mar-86					7.6	760			388				74
	Oct-86					7.5	750			383				
	Apr-87					7.4	785			390				
	Oct-87					7.7	770			407				
	May-88					7.2	720			388				
	Oct-88					7.3	741			380				155
	May-89					7.7	878			467				
	Oct-89					7.6	837			423				

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO 127	MAC	NC	NC	AO 114	MAC 2.70	MAC 0.27	MAC	NC	AO 3.1	NC
561 cont.	May-15	ITS	31.5	0.93	1.01	1.32	23.1	15.4	<0.05	<0.05		<0.001	5.8	
	Oct-15		30.7	1.16	0.92	1.29	23.3	15.9	<0.05	<0.05		<0.001	1.4	
	May-16		33.3	1.16	1.03	1.58	25.0	15.4	0.17	<0.05		<0.001	1.8	
	Oct-16		31.2	0.89	1.04	1.23	23.6	13.2	<0.05	<0.05		<0.001	0.9	
	May-17		29.6	0.84	1.06	1.22	22.9	14.6	0.06	<0.05		<0.001	0.9	
	Oct-17		32.9	0.74	0.99	1.26	25.0	15.0	0.11	<0.05		<0.001	1.6	
571	May-88	ITS	55	7		2.1	25	23				0.0010	1.7	
	Feb-90													
	May-98		40	11	0.70	4.9	18	17				<0.001	3.7	
	Nov-98		36	12	0.70	5.1	17	17				<0.001	2.9	
	Jun-99		45	1	0.90	1.7	26	13				<0.001	0.6	
	Oct-99		44	1	0.90	1.6	27	13				<0.001	<0.5	
	Jun-00		46	1	0.10	1.2	26	13				0.0060	0.5	
	Oct-00		44	1	0.90	1.3	26	13				<0.001	<0.5	
	May-01		50	1	1.00	1.4	27	13				<0.001	0.7	
	Nov-01		48	1	1.00	1.4	26	13				<0.001	0.5	
	May-02		46	1	0.90	1.3	27	13				<0.002	<0.5	
	Oct-02		45	2	0.90	1.4	26	13				<0.002	<0.5	
	May-03		48	2	0.80	1.3	27	14				<0.002	0.5	
	Oct-03		48	2	0.90	1.2	28	14				<0.1	<0.002	<0.5
	May-04		25	2	1.00	1.2	26	13				<0.002	0.7	0.14
	Oct-04		45	2	1.00	1.1	26	14				<0.1	<0.002	1.4
	May-05		48	1	0.90	1.3	26	13				<0.1	0.0010	0.8
	Oct-05		47	2	<0.5	1.3	26	14				<0.2	<0.001	0.6
	May-06		54	<2	0.80	1.0	28	13				1.70	<0.001	0.9
	Oct-06		78	2	0.90	2.0	30	17				<0.2	<0.001	<1
	May-07		53	2	0.80	1.0	27	14				<0.2	<0.001	1.0
	Oct-07		52	<2	0.80	1.0	26	13				<0.1	<0.001	<1
	May-08		48	<2	<0.1	1.0	23	12				<0.1	<0.001	1.0
	Oct-08		50	6	0.90	1.0	26	13				0.20	0.0010	1.0
	May-09		52.6	<2.0	0.82	1.40	25.8	12.7	<0.10	<0.10			<0.0010	1.4
	Oct-09		48.3	<2.0	0.89	1.20	23.9	11.9	<0.10	<0.10			<0.0010	1.1
	May-10		45.8	1.61	0.79	1.36	25.3	12.8	<0.05	<0.05			<0.001	0.5
	Oct-10		45.7	1.47	0.84	1.27	25.1	12.3	<0.05	<0.05			0.0020	3.9
Jun-11		47.1	1.75	0.90	1.48	26.1	12.0	<0.05	<0.05			<0.001	1.5	
Oct-11		47.4	1.71	0.81	1.30	26.4	12.6	<0.05	<0.05			<0.001	2.6	
May-12		46.9	2.02	0.82	1.47	25.7	12.4	<0.05	<0.05			<0.001	9.7	
Oct-12		45.3	2.14	0.74	1.43	25.6	12.8	<0.05	<0.05			<0.001	0.7	
May-13		43.2	1.86	0.94	1.26	24.2	11.4	<0.10	<0.10			<0.001	5.1	
Oct-13		43.2	1.81	0.88	1.25	24.2	12.3	<0.05	<0.05			<0.001	1.6	
May-14		47.3	1.78	0.79	1.32	26.4	12.7	<0.05	<0.05			<0.001	5.7	
Oct-14		44.1	1.98	0.91	1.33	24.1	12.5	<0.05	<0.05			<0.001	1.5	
May-15		44.0	2.08	0.88	1.25	24.0	12.3	<0.05	<0.05			<0.001	1.8	
Oct-15		47.8	2.46	0.92	1.72	25.0	13.2	<0.10	<0.10			<0.001	1.9	
May-16		45.6	2.15	0.88	1.37	25.5	13.0	<0.05	<0.05			<0.001	0.7	
Oct-16		45.6	1.78	0.87	1.29	25.2	11.7	<0.05	<0.05			<0.001	0.9	
May-17		41.6	1.81	0.90	1.24	23.3	12.2	<0.05	<0.05			<0.001	0.6	
Oct-17		46.0	1.24	0.79	1.33	25.4	12.6	<0.05	<0.05			<0.001	1.0	
032	Oct-85	ITS	99	2		1.9	31	16				0.0010	2.4	
	Mar-86		100	2		1.6	34	18				0.0010	2.1	
	Oct-86		100	2			32						1.5	
	Apr-87		105	2			31						2.0	
	Oct-87		106	2			35						2.1	
	May-88		104	2			31						3.1	
	Oct-88		104	1			29	14					2.0	
	May-89		123	2			39					0.0020	1.7	
	Oct-89		104	2			40						1.2	

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Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5	NC	NC	6.5 - 8.5	5	5	80 - 100	30 - 500	NC	NC	500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
032	May-90	ITS				7.5	655			329				
cont.	Oct-90					7.6	742			393				
	May-91					7.4	1055			568				
	Nov-91					7.2	1181			622				
	May-92					7.0	1293			740				
	Oct-92					6.9	1209			679				
	Apr-93					7.0	1111			643				
	Nov-93					6.9	1219			686				
	May-94					7.3	1226			770				
	Oct-94					7.1	1242			734				
	May-95					7.3	989			578				
591	Oct-95	ITS				8.0	702			129				
(repl'd 032)	May-97						661			117				
	Oct-97						641			115				
	May-98					8.0	603			102				
	Nov-98					8.4	618			95				
	Jun-99					8.3	633			106				
	Oct-99					8.0	603			111				
	Jun-00					8.0	654	0.37	10	113				
	Oct-00					8.0	696	3.32	<5	118				
	May-01					8.3	632	5.4	<5	147				
	Nov-01					8.4	706	7.56	<5	150				
	May-02					8.1	701	3.04	<5	132				
	Oct-02					8.1	695	6.96	<5	145				
	May-03					8.1	744	14.4	<5	147	88	87	1	267
	Oct-03					8.1	764	12.6	<5	168	34	93	1	251
	May-04					7.9	774	9.63	5	160	89	88	1	339
	Oct-04					8.2	774	8.76	<2.5	146	75	74	1	293
	May-05					8.0	759	117	5	148	79	96	<1	251
	Oct-05					8.2	760	167	<5		86	105		253
	May-06					7.8	686	28.0	400	180	57	57	<10	277
	Oct-06					8.3	698	8.60	24	170	82	80	<10	246
	May-07					8.0	700	6.3	8	150	87	86	<10	266
	Oct-07					8.1	729	9.4	15	150	91	90	<10	251
	May-08					7.9	722	4.6	4	120	90	89	<10	277
	Oct-08					8.3	687	5.4	<1	130	130	128	<10	220
	May-09					8.10	658	5.5	2	115	111	110	<10	205
	Oct-09					8.11	695	16.5	23	124	151	149	<10	198
	May-10		8.79	700	9.4	7.96	709	4.5	7	168	109	109	<5	259
	Oct-10		7.68	780	10.1	8.10	687	8	<5	174	89	89	<5	278
	Jun-11		8.27	619	10.3	7.96	700	22	<5	164	90	90	<5	282
	Oct-11		8.28	643	10.1	8.08	664	286	<5	145	79	79	<5	294
	May-12		8.03	624	11.1	7.71	699	4.6	5	130	75	75	<5	256
	Oct-12		8.08	528	10.6	8.00	611	227	<5	118	66	66	<5	257
	May-13		8.25	764	10.3	7.75	743	250	<5	153	76	76	<5	267
	Oct-13		8.71	763	10.0	8.05	728	112	<5	131	73	73	<5	264
	May-14		8.30	7.49	10.5	8.03	714	130	<5	128	65	65	<5	275
	Oct-14		7.87	700	11.0	8.02	721	177	<5	124	66	66	<5	278
	May-15		8.03	505	11.0	7.85	717	300	<5	130	69	69	<5	267
	Oct-15		8.31	519	12.1	7.53	752	83.6	<5	107	68	68	<5	236
	May-16		7.74	535	12.5	7.53	705	107	<5	115	66	66	<5	281
	Oct-16		8.17	660	14.9	7.82	755	314	<5	119	73	73	<5	246
	May-17		8.19	602	11.68	7.61	728	61.9	<5	94.5	61	61	<5	252
	Oct-17		7.76	515	12.13	7.59	654	335	9	110	63	63	<5	250

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Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
032	May-90	ITS	91	5			25							1.3
cont.	Oct-90		105	3			32					0.0030		2.6
	May-91		158	6			42					0.0075		2.0
	Nov-91		174	13			45					0.0325		15.6
	May-92		224	7			44					0.0010		10.1
	Oct-92		206	4			40					0.0035		8.5
	Apr-93		210	27			28					0.0015		4.0
	Nov-93		209	17			40					0.0049		5.1
	May-94		247	10		1.2	37	7				0.0152		6.6
	Oct-94		225	10		1.43	41	7				0.0045		5.2
	May-95		189	17		0.81	25.3	6				0.0015		4.9
591	Oct-95	ITS	31	10		5.4	13	97				0.0016		3.5
(repl'd 032)	May-97		24	9		4.8	14	99				0.0010		3.3
	Oct-97		24	9		4.2	13	90				0.0010		3.7
	May-98		19	10	1.10	4.3	14	95				<0.001		2.7
	Nov-98		17	10	1.10	4.1	13	92				<0.001		2.3
	Jun-99		21	8	1.10	4.0	13	94				<0.001		2.1
	Oct-99		22	8	1.10	4.3	14	102				<0.001		1.7
	Jun-00		21	8	1.10	3.7	15	102				0.0010		1.7
	Oct-00		23	7	1.00	3.5	15	101				<0.001		1.6
	May-01		33	6	1.20	2.6	16	102				<0.001		1.5
	Nov-01		33	6	1.10	2.4	16	101				<0.001		1.5
	May-02		25	5	1.00	2.3	17	105				<0.002		1.3
	Oct-02		31	6	1.00	2.1	17	105				<0.002		1.3
	May-03		31	6	1.00	2.0	17	108				<0.002		1.5
	Oct-03		38	6	1.10	2.0	18	110			<0.1	<0.002		1.2
	May-04		36	5	1.30	1.7	17	106				<0.002		1.6
	Oct-04		31	6	1.20	1.8	17	114			0.10	<0.002		2.2
	May-05		24	5	0.90	1.8	16	110			<0.1	<0.001		1.4
	Oct-05		33	5	<0.5	1.7	17	110			<0.5	<0.001		1.2
	May-06		44	7	0.70	2	17	111			<0.2	<0.001		1.9
	Oct-06		39	24	1.10	2	18	102			<0.2	<0.001		2.0
	May-07		35	6	1.10	2	16	110			<0.2	<0.001		2.0
	Oct-07		37	6	0.90	2	15	97			<0.2	<0.001		1.0
	May-08		26	6	1.10	2	14	101			<0.1	0.0050		1.0
	Oct-08		29	5		2	14	110			<0.1	<0.001		
	May-09		21.4	5.1	0.94	1.70	14.9	98.7	0.12	<0.10		<0.0010		2.4
	Oct-09		26.7	5.6	1.06	3.50	13.9	96.2	<0.10	<0.10		0.0360		3.9
	May-10		41.0	5.18	0.89	1.62	15.9	101	<0.05	<0.05		0.0030		2.0
	Oct-10		43.6	5.00	0.92	1.21	15.7	94.8	<0.05	<0.05		0.0040		8.7
	Jun-11		40.8	4.83	1.36	1.12	15.2	88.2	<0.05	<0.05		0.0020		5.1
	Oct-11		32.0	4.78	0.99	1.09	15.7	98.4	<0.05	<0.05		<0.001		16.8
	May-12		28.4	4.56	0.70	1.06	14.3	92.0	0.06	<0.05		<0.001		4.9
	Oct-12		23.8	4.81	0.91	1.30	14.3	98.1	<0.05	<0.05		<0.001		3.7
	May-13		35.3	4.78	0.59	1.11	15.7	98.5	<0.25	<0.25		0.0010		5.8
	Oct-13		28.3	4.83	0.44	1.06	14.6	97.1	<0.25	<0.25		<0.001		3.2
	May-14		26.3	4.77	0.98	1.06	15.1	96.5	<0.05	<0.05		<0.001		6.0
	Oct-14		25.1	5.15	1.03	1.01	14.8	97.4	<0.10	<0.10		<0.001		2.6
	May-15		28.0	5.07	1.13	1.24	14.5	104	<0.05	<0.05		<0.001		3.2
	Oct-15		23.6	5.63	1.22	1.23	11.7	81.1	<0.10	<0.10		<0.001		2.2
	May-16		21.6	5.52	0.97	1.23	14.8	105	0.06	<0.05		<0.001		2.9
	Oct-16		24.1	4.77	0.86	1.06	14.2	88.5	<0.10	<0.10		<0.001		2.0
	May-17		15.6	4.89	0.96	1.16	13.5	99.1	<0.10	<0.10		<0.001		1.5
	Oct-17		19.9	4.24	1.20	1.12	14.6	103	<0.25	<0.25		<0.001		2.0

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity		Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate
			pH	Cond.	Temp.		µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L	
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO	
											387			296	
594	Oct-14	ITS	8.33	356	11.6	8.32	337	8760	6	90.8	137	136	<5	21.4	
	May-15		8.17	307	11.4	8.43	402	25900	<5	106	175	165	10	31.6	
	Oct-15		8.38	324	12.6	8.04	433	223	<5	113	172	172	<5	37.4	
	May-16		8.30	319	11.3	8.12	401	6460	<5	105	178	178	<5	34.7	
	Oct-16		8.14	350	13.4	8.41	349	6080	7	83	200	200	<5	27.6	
	May-17		8.29	345	10.97	8.28	434	10500	5	86.9	195	195	<5	25.8	
	Oct-17		7.46	283	10.90	8.11	351	697	9	90.5	174	174	<5	22.2	
998	Jun-00	ITS													
	Oct-00														
	Jun-01					8.8	228			39					
	Nov-01					9.0	209	38.8	<5	29					
	May-02					8.6	236	18.9	<5	42					
	Oct-02					8.7	202	19.6	<5	27					
	May-03					8.7	235	11.2	<5	37	112	107	5	3	
	Oct-03					8.4	212	8.44	<5	27	105	102	2	3	
	May-04					8.2	232	4.35	<2.5	36	110	108	2	3	
	Oct-04					8.4	233	5.16	<2.5	33	97	95	2	3	
	May-05					8.4	230	86.5	<5	39	105	123	3	2	
	Oct-05					8.5	228	107	<5		112	131		3	
	May-06					8.9	204	8.6	45	50	100	93	<10	<2	
	Oct-06					9.1	211	4.5	7	60	100	90	<10	2	
	May-07					8.8	218	5.9	6	40	100	95	<10	3	
	Oct-07					8.9	212	3.9	2	60	110	102	<10	<2	
	May-08					8.9	224	4.8	3	50	110	102	<10	<2	
	Oct-08					8.2	327	1.3	3	100	170	167	<10	9	
	May-09					8.66	236	14.2	2	53	118	113	<10	3.3	
	Oct-09					8.80	228	3.2	1	80	100	94.0	<10	<2.0	
	May-10		9.18	230	9.8	8.16	251	68.0	5	66	125	125	<5	12.6	
	Oct-10		8.65	250	10.4	8.37	253	6.7	<5	81	130	127	<5	14.6	
	Jun-11		8.87	214	10.9	8.36	264	75.0	<5	77	132	129	<5	10.9	
	Oct-11		8.78	267	9.6	8.35	282	328	<5	90	137	135	<5	20.6	
	May-12		9.40	300	11.1	8.13	263	7.0	<5	65	133	133	<5	7.8	
	Oct-12		9.23	207	11.6	8.26	230	79.6	<5	56	124	124	<5	4.2	
	May-13		8.89	313	10.7	8.30	268	58.1	<5	68	113	113	<5	17.6	
	Oct-13		8.71	300	10.8	8.12	293	123	<5	89	138	138	<5	23.6	
	May-14		8.90	296	10.2	8.33	284	73.9	<5	63	116	116	<5	16.2	
	Oct-14		9.06	283	9.7	8.19	313	445	<5	95.9	125	125	<5	23.2	
	May-15		8.40	210	14.8	8.29	295	182	<5	82.6	136	135	<5	15.5	
	Oct-15		8.58	205	11.4	7.33	318	126	7	70.7	125	125	<5	17.4	
	May-16		8.31	239	11.5	8.01	319	616	<5	81.2	141	141	<5	24.0	
	Oct-16		8.44	280	12.6	8.27	427	620	<5	137	163	163	<5	35.3	
	May-17		8.53	287	9.80	8.13	365	348	<5	96.5	165	165	<5	16.7	
	Oct-17		8.10	213	12.09	7.84	294	4680	8	138	119	119	<5	30.8	
00-03	Jun-00	ITS				7.8	403	3.9	<5	255					
	Oct-00														
	May-01					8.1	454	24.2	<5	267					
	Nov-01					8.1	492	12.4	<5	258					
	May-02					8.1	491	18.2	<5	239					
	Oct-02					8.2	477	5.1	<5	250					
	May-03					8.1	513	45.1	<5	260	251	248	3	32	
	Oct-03					8.2	492	12.4	<5	252	244	240	4	30	
	May-04					8.0	493	10.6	3	216	242	240	2	28	
	Oct-04					8.2	513	13.8	<2.5	242	225	221	4	31	
	May-05					8.2	494	229	1	245	221	270	<1	29	
	Oct-05					8.3	516	207	<5		249	304		27	
	May-06					7.8	481	54.0	500	280	240	238	<10	33	
	Oct-06					7.9	462	6.9	23	260	240	238	<10	31	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
594	Oct-14	ITS	15.6	2.61	1.53	1.97	12.6	40.9	<0.05	<0.05		<0.001	2.9	
	May-15		19.0	4.50	1.33	2.54	14.3	48.3	<0.05	<0.05		<0.001	5.5	
	Oct-15		20.2	4.40	1.30	2.89	15.3	53.1	<0.10	<0.10		<0.001	2.8	
	May-16		19.1	3.79	1.42	2.74	13.9	51.8	0.18	<0.05		<0.001	2.8	
	Oct-16		14.3	2.42	1.49	1.64	11.4	42.6	0.21	<0.05		<0.001	1.3	
	May-17		14.7	2.27	1.56	2.00	12.2	55.2	0.08	<0.05		<0.001	3.8	
	Oct-17		16.3	1.71	1.48	2.01	12.1	50.5	0.16	<0.05		<0.001	1.4	
998	Jun-00	ITS												
	Oct-00													
	Jun-01		7	7	0.30	3.0	5	42				<0.001	0.7	
	Nov-01		4	7	0.40	3.8	5	37				<0.001	1.0	
	May-02		6	9	0.60	3.3	7	39				<0.002	0.8	
	Oct-02		4	7	0.40	3.9	4	39				<0.002	<0.5	
	May-03		5	8	0.60	3.1	6	39				<0.002	0.9	
	Oct-03		4	7	0.50	3.6	4	39			<0.1	<0.002	0.9	
	May-04		5	5	0.60	2.9	6	38				<0.002	0.8	<0.05
	Oct-04		5	6	0.60	3.4	5	42			<0.1	<0.002	2.2	
	May-05		6	5	0.50	3.1	6	40			<0.1	0.0090	0.8	
	Oct-05		5	5	<0.5	3.1	5	39			<0.2	<0.001	0.9	
	May-06		7	7	0.40	3	7	40			<0.2	<0.001	1.0	
	Oct-06		14	5	0.70	2	7	36			<0.2	<0.001	<1	
	May-07		7	6	0.40	3	6	38			<0.2	<0.001	1.0	
	Oct-07		15	5	0.30	3	6	40			<0.1	<0.001	<1	
	May-08		9	5	0.50	3	7	37			<0.1	<0.001	1.0	
	Oct-08		19	<2	2.20	1	11	45			<0.1	<0.001	2.0	
	May-09		9.11	10.0	0.39	2.70	7.35	31.7	0.14	<0.10		<0.0010	2.1	
	Oct-09		19.3	4.60	0.41	2.70	7.66	32.3	<0.10	<0.10		<0.0010	2.2	
	May-10		9.12	3.07	0.57	1.70	10.4	33.9	<0.05	<0.05		0.0060	1.2	
	Oct-10		12.9	3.50	0.76	1.95	11.9	33.6	<0.05	<0.05		0.0080	5.6	
	Jun-11		10.2	3.39	1.01	1.70	12.6	34.4	<0.05	<0.05		0.0050	2.9	
Oct-11		12.8	3.23	0.91	1.46	14.1	33.6	<0.05	<0.05		0.0040	5.8		
May-12		8.07	3.12	0.96	1.15	10.9	34.1	<0.05	<0.05		0.0060	5.3		
Oct-12		7.70	3.48	0.69	1.63	8.90	32.5	<0.05	<0.05		0.0020	1.1		
May-13		8.76	2.75	1.15	1.07	11.2	37.6	<0.05	<0.05		0.0010	6.9		
Oct-13		14.3	2.98	1.10	1.24	13.0	33.8	<0.05	<0.05		0.0120	2.2		
May-14		8.12	2.91	1.21	1.06	10.4	35.6	<0.05	<0.05		0.002	4.8		
Oct-14		14.0	3.34	1.09	1.41	14.8	34.7	<0.05	<0.05		0.008	2.4		
May-15		10.5	3.01	1.17	1.22	13.7	32.9	<0.05	<0.05		0.002	2.8		
Oct-15		8.51	3.36	0.95	1.54	12.0	34.3	<0.05	<0.05		0.002	2.2		
May-16		10.4	3.57	1.21	1.17	13.4	32.4	<0.05	<0.05		0.024	1.4		
Oct-16		24.3	3.12	0.85	1.33	18.5	29.0	<0.05	<0.05		0.010	2.2		
May-17		14.9	4.22	0.79	1.50	14.4	28.7	<0.05	<0.05		0.003	1.5		
Oct-17		32.6	5.46	0.48	1.33	13.7	6.89	0.98	0.38		<0.001	2.1		
00-03	Jun-00	ITS	52	4	0.90	1.4	31	14				0.0010	2.5	
	Oct-00													
	May-01		55	4	0.90	1.4	32	14				<0.001	<0.5	
	Nov-01		52	4	0.89	1.3	31	14				<0.001	0.8	
	May-02		45	4	0.85	1.4	31	14				<0.002	0.6	
	Oct-02		49	5	0.80	1.4	31	15				<0.002	0.5	
	May-03		53	4	0.80	1.3	31	16				<0.002	0.6	
	Oct-03		51	5	0.84	1.2	30	15			<0.1	<0.002	<0.5	
	May-04		37	6	0.95	1.3	30	15				<0.002	0.6	0.14
	Oct-04		48	5	0.95	1.4	30	20			<0.1	<0.002	2.2	
	May-05		53	5	0.70	1.3	31	15			<0.1	<0.001	0.7	
Oct-05		<0.2	7	0.60	<0.2	<0.05	<0.2	<0.2		<0.2	<0.001	0.7		
May-06		57	7	0.80	1.0	34	16			<0.2	<0.001	0.7		
Oct-06		51	7	0.80	1.0	33	15			<0.2	<0.001	<1		

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· AO - Aesthetic Objective
· OG - Operational Guideline

· † - sampled by Oxford County Board of Health



**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5	NC	NC	6.5 - 8.5	5	5	80 - 100	30 - 500	NC	NC	500	
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO	
										387			296	
00-03	May-07	ITS				7.8	478	8.1	13	280	230	229	<10	31
cont.	Oct-07					8.1	488	5.7	15	260	240	237	<10	30
	May-08					8.1	500	9.6	9	240	240	237	<10	42
	Oct-08					8.1	480	17.6	<1	260	240	237	<10	32
	May-09					8.08	504	58.0	<1.0	242	241	238	<10	30.3
	Oct-09					8.19	504	6.6	<1.0	250	229	226	<10	32.4
	May-10		7.85	400	10.1	8.19	473	3.2	8	245	236	236	<5	34.6
	Oct-10		7.80	520	10.7	8.43	420	6.5	<5	254	234	223	11	32.9
	Jun-11		7.57	413	10.7	8.12	456	95.0	<5	247	231	231	<5	35.5
	Oct-11		7.75	454	9.7	8.37	445	4030	<5	257	235	228	8	37.9
	May-12		7.55	484	11.0	8.13	476	15.6	<5	243	228	228	<5	33.3
	Oct-12		7.84	399	11.3	8.29	409	976	<5	218	220	220	<5	35.0
	May-13		8.17	565	10.7	8.18	495	139	<5	264	225	225	<5	35.2
	Oct-13		8.19	551	10.2	8.04	499	95.3	<5	263	243	243	<5	35.5
	May-14		7.80	538	10.5	8.29	519	370	<5	250	230	230	<5	35.3
	Oct-14		7.96	469	10.0	8.33	524	280	6	241	222	219	<5	38.5
	May-15		7.51	334	11.7	8.04	501	83.4	<5	241	224	224	<5	36.6
	Oct-15		7.52	375	10.3	8.19	526	1610	<5	259	226	226	<5	37.3
	May-16		7.63	404	10.7	8.19	507	169	<5	247	234	234	<5	42.2
	Oct-16		7.66	490	12.5	8.26	493	46.2	<5	246	226	226	<5	37.0
	May-17		7.58	460	9.69	8.16	551	327	<5	235	229	229	<5	39.0
	Oct-17		7.65	396	11.00	8.22	486	317	<5	246	237	237	<5	38.5
022R	May-13	LT	8.02	658	10.8	8.09	587	217	8	315	253	253	<5	65.4
	Oct-13		8.17	401	10.2	8.10	347	246	6	117	171	171	<5	23.0
	May-14		8.17	392	11	8.28	374	8370	<5	121	165	165	<5	25.6
	Oct-14		8.14	326	10.8	8.17	332	18300	7	113	140	140	<5	22.1
	May-15		8.13	257	13.5	8.33	328	5990	<5	91	162	158	<5	16.1
	Oct-15		7.71	265	12.8	7.94	363	57200	<5	85	167	167	<5	18.9
	May-16		7.97	371	15.5	8.14	484	5130	12	213	218	218	<5	53.0
	Oct-16		7.92	350	11.8	8.08	341	4170	9	105	164	164	<5	19.2
	May-17		7.58	579	8.64	8.22	695	35700	17	296	257	257	<5	97.9
	Oct-17		8.15	289	11.30	8.06	356	6440	6	130	175	175	<5	29.3
101	Apr-86	LT				7.9	394			165				
	Jun-86					7.9	418			153				
	Oct-86					7.8	424			176				
	Apr-87					7.7	438			182				
	Oct-87					7.9	406			202				
	May-88					7.8	415			188				
	May-90													
	May-98					7.9	373			179				
	Nov-98					8.0	395			169				
	Jun-99					8.3	377			192				
	Oct-99					8.1	390			183				
	Jun-00					7.9	374	0.3	<5	193				
	Oct-00					7.7	372	18.3	10	175				
	May-01					8.1	332	100	<5	185				
	Nov-01					8.0	309	9.4	<5	164				
	May-02					8.0	318	13.0	<5	164				
	Oct-02					8.1	343	30.7	<5	163	194	192	2	11
	May-03					8.0	645	8.2	12	307	280	277	3	20
	Oct-03					8.2	433	18.8	<5	219	247	243	4	7
	May-04					8.1	502	4.5	7	217	266	263	3	13

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
 · NC - No criteria · AO - Aesthetic Objective
 · MAC - Maximum Acceptable Concentration · OG - Operational Guideline



**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250	1.5			200	10	1	10		5	
Guideline B-7			NC	AO	MAC	NC	NC	AO	MAC	MAC	MAC	NC	AO	NC
				127				114	2.70	0.27			3.1	
00-03	May-07	ITS	60	6	0.70	1.0	33	14			<0.2	<0.001	1.0	
cont.	Oct-07		56	6	0.70	1.0	30	17			<0.1	<0.001	<1	
	May-08		53	122	0.70	1.0	27	14			0.20	<0.001	1.0	
	Oct-08		56	12	0.80	1.0	30	14			0.20	<0.001	1.0	
	May-09		49.7	5.9	0.73	1.40	28.7	13.4	<0.10	<0.10		<0.0010	2.1	
	Oct-09		54.0	6.3	0.80	1.30	28.0	13.1	<0.10	<0.10		<0.0010	1.6	
	May-10		49.9	6.55	0.65	1.36	29.2	13.5	<0.05	<0.05		<0.001	0.6	
	Oct-10		51.9	6.03	0.78	1.28	30.2	13.4	<0.05	<0.05		<0.001	6.7	
	Jun-11		50.0	6.74	0.78	1.55	29.7	13.8	<0.05	<0.05		<0.001	2.3	
	Oct-11		52.4	6.90	0.75	1.37	30.6	13.4	<0.05	<0.05		<0.001	1.2	
	May-12		48.1	6.87	0.75	1.35	29.8	13.3	<0.05	<0.05		<0.001	4.0	
	Oct-12		42.2	7.23	0.68	1.29	27.4	12.8	<0.05	<0.05		<0.001	1.2	
	May-13		53.0	7.20	0.54	1.27	32.0	13.6	<0.10	<0.10		<0.001	3.5	
	Oct-13		53.2	6.84	0.69	1.36	31.5	13.8	<0.05	<0.05		<0.001	2.9	
	May-14		50.4	6.84	0.69	1.33	30.1	13.1	<0.05	<0.05		<0.001	5.1	
	Oct-14		46.4	7.34	<0.10	1.35	30.5	14.3	<0.10	<0.10		<0.001	2.1	
	May-15		50.4	7.64	0.68	1.59	27.9	13.5	<0.05	<0.05		<0.001	1.6	
	Oct-15		54.2	7.77	0.80	1.42	30.1	14.3	<0.10	<0.10		<0.001	1.3	
	May-16		50.7	8.06	0.80	1.30	29.2	13.9	<0.05	<0.05		<0.001	1.4	
	Oct-16		50.4	7.26	0.75	1.28	29.1	12.9	<0.05	<0.05		<0.001	2.4	
	May-17		48.6	7.57	0.64	1.25	27.7	11.9	<0.05	<0.05		<0.001	0.9	
	Oct-17		50.6	7.33	0.80	1.23	29.1	13.2	<0.05	<0.05		<0.001	1.2	
022R	May-13	LT	82.0	3.18	0.24	1.26	26.7	12.6	0.23	<0.10		<0.001	10.4	
	Oct-13		25.2	1.45	0.95	1.29	13.1	34.9	0.22	<0.05		<0.001	3.5	
	May-14		26.5	1.47	1.00	1.47	13.4	34.2	0.18	<0.05		<0.001	5.9	
	Oct-14		23.7	1.55	1.13	1.39	13.1	38.1	0.08	<0.05		<0.001	2.4	
	May-15		19.4	1.53	1.02	1.17	10.3	37.9	0.22	<0.05		<0.001	3.0	
	Oct-15		17.0	1.60	1.05	1.78	10.4	37.1	0.32	<0.05		<0.001	4.4	
	May-16		50.7	1.40	0.42	1.91	21.1	23.0	0.79	<0.05		<0.001	6.2	
	Oct-16		23.1	1.31	1.04	1.15	11.4	32.7	0.28	<0.05		<0.001	2.4	
	May-17		73.5	1.26	0.28	1.54	27.4	11.2	1.96	<0.05		<0.001	5.7	
	Oct-17		29.6	1.04	0.84	1.49	13.7	31.1	0.11	<0.05		<0.001	1.9	
101	Apr-86	LT	34	6		3.1	19	18				<0.001	2.1	
	Jun-86		31	6		3.6	18	18				0.0030	3.3	
	Oct-86		31	3			24					0.0020	1.6	
	Apr-87		32	2			25					<0.001	1.9	
	Oct-87		36	2			27					<0.001	1.3	
	May-88		34	1			25					<0.001	1.3	
	May-90													
	May-98		32	2	1.00	1.9	24	18				<0.001	3.1	
	Nov-98		30	4	1.00	2.2	23	19				<0.001	2.9	
	Jun-99		34	1	0.30	2.2	26	19				<0.001	1.6	
	Oct-99		32	1	1.00	2.9	25	20				<0.001	1.1	
	Jun-00		35	1	1.00	2.0	26	20				0.0030	0.9	
	Oct-00		35	1	0.80	3.4	21	17				<0.001	1.6	
	May-01		35	1	1.00	2.0	24	18				<0.001	1.0	
	Nov-01		32	1	0.80	1.8	20	15				<0.001	1.2	
	May-02		33	1	0.80	1.4	20	15				<0.002	0.9	
	Oct-02		31	2	0.90	1.3	21	16			0.46	<0.002	0.6	
	May-03		99	6	0.20	3.0	15	6				<0.002	5.0	
	Oct-03		51	3	0.80	2.3	22	16			<0.1	<0.002	1.7	
	May-04		54	3	0.70	2.0	20	12				<0.002	2.1	<0.05

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003)
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 · OG - Operational Guideline

· † - sampled by Oxford County Board of Health



**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	pH	Cond.	Temp.	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Bicarbonate	Carbonate	Sulphate	
			Field	Field	Field		µS/cm	NTU	TCU		mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500	
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO	
											387			296	
101R	Oct-04	LT				8.3	554	20	4	218	200	196	4	65	
	May-05					8.4	591	166	8	205	228	270	4	62	
	Oct-05					8.4	539	161	5		251	299		36	
	May-06					7.9	438	93	700	210	230	228	<10	28	
	Oct-06					8.1	441	15	220	190	230	227	<10	26	
	May-07					8.1	440	15	27	200	220	218	<10	22	
	Oct-07					8.1	438	20	79	210	230	227	<10	16	
	May-08					8.2	437	14.8	14	220	230	227	<10	18	
	Oct-08					8.1	423	49	<1	220	220	217	<10	16	
	May-09					8.17	437	26	<1.0	216	231	228	<10	14.6	
	Oct-09					8.20	431	13.5	<1.0	216	219	216	<10	13.9	
	May-10			8.04	420	9.7	8.02	414	5.8	<5	209	222	222	<5	14.7
	Oct-10			7.75	440	9.9	8.34	370	9.1	<5	208	222	217	5	13.9
	Jun-11			8.06	374	9.8	8.24	393	143	<5	212	216	216	<5	14.1
	Oct-11			7.57	397	10.0	8.31	396	3830	<5	218	221	219	<5	16.2
	May-12			8.18	487	10.5	8.28	420	17.8	<5	200	226	226	<5	13.7
	Oct-12			7.96	339	10.6	8.33	358	640	<5	210	214	210	<5	13.9
May-13			7.96	470	9.8	8.31	436	172	<5	195	216	215	<5	14.4	
Oct-13			7.61	475	10.0	8.25	438	140	<5	206	233	233	<5	14.3	
May-14			7.90	456	9.9	8.26	439	256	<5	214	216	216	<5	14.2	
Oct-14			7.91	407	11.0	8.29	442	282	<5	199	220	220	<5	15.7	
May-15			7.87	313	10.7	8.38	430	339	<5	193	226	217	9	14.8	
Oct-15			7.66	317	11.4	8.21	446	387	<5	194	215	215	<5	15.1	
May-16			7.94	357	10.1	8.23	439	181	<5	207	229	229	<5	14.6	
Oct-16			7.89	430	15.4	8.30	371	227	5	184	260	260	<5	14.7	
May-17			7.70	379	10.68	8.02	474	685	<5	195	232	232	<5	15.5	
Oct-17			7.62	365	10.70	8.05	414	357	<5	207	224	224	<5	14.8	
191	Oct-85	LT				7.9	640			279					
	Apr-86					7.8	625			289					
	Oct-86					7.8	620			298					
	Apr-87					7.7	615			293					
	Oct-87					7.9	615			311					
	May-88					7.7	655			325					
	Oct-88					7.7	632			303					
	May-89					7.9	661			306					
	Oct-89					7.8	637			296					
	May-90					7.8	639			301					
	Oct-90					7.9	636			300					
	May-91					7.9	632			293					
	Nov-91					7.9	636			310					
	May-92					7.9	621			316					
	Oct-92					7.8	622			320					
	Apr-93					8.0	620			312					
	Nov-93					7.9	604			311					
	May-94					8.1	620			317					
	Oct-94					8.1	594			318					
	May-95					7.9				318					
	Oct-95					7.9	619			304					
May-97						649			320						
Oct-97						613			296						
May-98					8.0	604			321						
Nov-98					8.1	624			303						
Jun-99					8.2	661			378						
Oct-99					7.5	510			272						
Jun-00					7.9	566	1.7	<5	337						
Oct-00					7.7	604	18.2	<5	327						
May-01					8.0	535	15.6	<5	329						
Nov-01					8.1	545	13.1	<5	297						

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
101R	Oct-04	LT	41	13	1.20	3.2	28	49			<0.1	<0.002	4.5	
	May-05		41	12	1.20	3.3	25	50			0.20	0.0020	2.9	
	Oct-05		32	4	0.90	1.6	19	62			<0.5	<0.001	1.3	
	May-06		46	4	0.60	2.0	24	47			<0.2	<0.001	1.6	
	Oct-06		39	3	0.90	1.0	23	42			0.20	<0.001	2.0	
	May-07		41	3	0.80	1.0	24	37			0.20	<0.001	1.0	
	Oct-07		42	<2	0.80	1.0	26	24			<0.2	<0.001	<1	
	May-08		45	<2	0.90	1.0	27	18			0.20	<0.001	<1	
	Oct-08		47	6	0.90	2.0	25	19			0.20	<0.001	1.0	
	May-09		41.5	<2.0	0.85	1.40	27.4	17.6	0.15	<0.10		<0.0010	1.3	
	Oct-09		44.6	<2.0	0.93	1.30	25.5	15.5	<0.10	<0.10		<0.0010	1.1	
	May-10		41.3	1.17	0.86	1.34	25.7	14.9	<0.05	<0.05		<0.001	0.8	
	Oct-10		41.3	1.31	0.89	1.27	25.4	14.4	<0.05	<0.05		<0.001	2.7	
	Jun-11		41.7	1.56	0.90	1.47	26.3	14.3	<0.05	<0.05		<0.001	2.4	
	Oct-11		43.0	1.62	0.82	1.37	26.9	15.3	<0.05	<0.05		<0.001	1.2	
	May-12		38.8	1.90	0.85	1.41	25.0	14.2	<0.05	<0.05		<0.001	4.7	
	Oct-12		40.7	2.14	0.80	1.36	26.2	15.2	<0.05	<0.05		<0.001	1.1	
	May-13		38.8	1.64	0.71	1.42	23.9	13.0	<0.10	<0.10		<0.001	3.4	
	Oct-13		41.2	1.58	0.85	1.37	25.1	14.7	<0.05	<0.05		<0.001	1.4	
May-14		42.0	1.63	0.82	1.28	26.4	14.7	<0.05	<0.05		<0.001	3.4		
Oct-14		39.6	1.79	0.91	1.24	24.4	14.7	<0.05	<0.05		<0.001	1.8		
May-15		39.0	1.74	0.85	1.23	23.1	15.3	<0.05	<0.05		<0.001	1.9		
Oct-15		38.6	2.12	0.85	1.30	23.7	15.5	<0.10	<0.10		<0.001	2.9		
May-16		40.8	1.80	0.93	1.49	25.5	15.0	<0.05	<0.05		<0.001	1.3		
Oct-16		34.8	1.69	0.92	1.26	23.5	12.7	<0.05	<0.05		<0.001	1.0		
May-17		38.9	1.61	0.92	1.37	23.8	14.3	<0.05	<0.05		<0.001	1.0		
Oct-17		40.7	1.08	0.82	1.36	25.6	14.9	<0.05	<0.05		<0.001	1.0		
191	Oct-85	LT	43	3		2.6	42	26				0.0010	1.8	
	Apr-86		43	3		2.8	44	26				0.0010	2.1	
	Oct-86		46	3			43					0.0015	1.8	
	Apr-87		45	3			44					0.0010	2.3	
	Oct-87		45	2			48					0.0010	2.1	
	May-88		48	2			50					0.0010	1.5	
	Oct-88		46	2			46	23				0.0010	2.2	
	May-89		47	3			46					0.0010	2.0	
	Oct-89		45	3			44					0.0015	1.7	
	May-90		47	3			45					0.0010	1.4	
	Oct-90		46	2			45					0.0015	2.1	
	May-91		43	1			45					0.0020	1.3	
	Nov-91		43	2			49					0.0095	1.8	
	May-92		43	3			49					0.0010	1.9	
	Oct-92		46	2			50					0.0010	1.4	
	Apr-93		46	2			48					0.0010	1.6	
	Nov-93		43	2			49						1.9	
	May-94		44	23		2.1	50	23				0.0010	2.2	
	Oct-94		44	2		2.2	51	23				0.0010	1.7	
	May-95		45	2		2.0	50	22				0.0010	2.0	
	Oct-95		43	2		2.0	48	22				0.0010	2.1	
	May-97		50	2		2.2	47	23				0.0010	3.6	
	Oct-97		43	1		2.0	46	22				0.0010	2.8	
May-98		46	3	0.70	2.1	50	21				<0.001	2.8		
Nov-98		41	2	0.70	2.0	49	21				<0.001	2.0		
Jun-99		61	2	0.70	2.1	55	21				<0.001	1.1		
Oct-99		39	1	0.90	2.0	43	25				<0.001	1.0		
Jun-00		54	2	0.80	2.0	49	22				0.0020	1.3		
Oct-00		52	2	0.70	2.1	48	23				<0.001	1.1		
May-01		52	2	0.80	2.0	48	22				<0.001	1.0		
Nov-01		45	2	0.80	1.9	45	23				<0.001	1.0		

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Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
	ODWQS		6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500
	Guideline B-7		OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
														296
191	May-02	LT				8.0	609	10.4	<5	331				
cont.	Oct-02					8.1	522	13.9	8	259	257	254	3	52
	May-03					8.2	496	23.0	<5	229	229	225	4	49
	Oct-03					8.3	482	54.5	<5	233	233	229	4	39
	May-04					8.2	574	5.7	<2.5	263	256	252	4	54
	Oct-04					8.2	486	22.50	<2.5	247	230	226	4	50
	May-05					8.2	596	42.20	<5	287	252	307	<1	60
	Oct-05					8.3	552	63.80	<5		261	314		41
	May-06					7.9	542	29.0	43	330	270	268	<10	67
	Oct-06					8.1	510	11	47	270	240	237	<10	53
	May-07					7.9	560	10	17	310	250	248	<10	62
	Oct-07					8.2	472	17	66	240	230	227	<10	36
	May-08					8.1	545	10.4	9	260	240	237	<10	68
	Oct-08					8.1	468	26.0	<1	230	220	218	<10	45
	May-09					8.01	671	16.30	<1.0	320	274	271	<10	94.8
	Oct-09					8.17	588	10.10	1.5	277	247	244	<10	68.8
	May-10		7.94	580	10.2	8.21	481	5.10	<5	229	224	224	<5	55.1
	Oct-10		7.97	540	10.2	8.41	433	9.10	<5	237	240	231	9	48.5
	Jun-11		7.91	284	10.6	8.25	605	247	<5	344	295	295	<5	73.1
	Oct-11		7.92	505	9.2	8.39	527	1250	<5	299	267	258	9	67.5
	May-12		7.62	588	13.1	8.26	634	18.6	<5	317	300	300	<5	62.7
	Oct-12		8.25	454	12.9	8.45	482	392	<5	243	243	231	12	57.5
	May-13		7.99	748	10.5	8.21	624	25100	<5	287	258	258	<5	79.1
	Oct-13		7.93	661	10.4	8.34	631	76	<5	302	291	287	<5	64.5
	May-14		7.92	719	11.1	8.26	691	202	<5	348	282	282	<5	84.3
	Oct-14		7.93	719	11.1	8.37	684	103	<5	318	287	277	10	85.8
	May-15		7.70	474	12.8	8.40	661	30100	<5	313	279	267	12	83.3
	Oct-15		7.80	433	12.1	8.06	606	1600	<5	279	244	244	<5	64.2
	May-16		7.53	492	15.4	8.30	630	3860	<5	297	271	264	6	92.2
	Oct-16		7.74	500	13.7	8.25	582	286	<5	247	249	249	<5	53.0
	May-17		7.81	502	12.29	8.27	652	1530	<5	259	260	254	5	76.7
	Oct-17		8.00	395	13.81	8.13	501	252	<5	228	235	235	<5	53.5
231	Mar-86	LT				8.1	370			120				
	Jun-86					8.1	375			104				
	Oct-86					8.0	350			109				
	Apr-87					7.9	350			105				
	Oct-87					8.1	335			134				
	May-88					8.0	332			109				
	Feb-90													
	May-98					8.1	290			92				
	Nov-98					8.1	305			86				
	Jun-99					8.3	280			93				
	Oct-99					7.9	274			86				
	Jun-00					8.0	288	3	6	92				
	Oct-00					7.3	294	8	<5	97				
	May-01					8.1	265	7	<5	98				
	Nov-01					8.2	281	27	<5	101				
	May-02					8.2	297	25	<5	103				
	Oct-02					8.1	289	6	<5	96	156	154	2	10
	May-03					8.3	309	41	<5	100	163	160	3	12
	Oct-03					8.3	306	8	<5	102	157	154	3	9
	May-04					8.2	320	12	3	102	160	158	2	9
	Oct-04					8.1	326	4	<2.5	99	143	141	2	12
	May-05					8.2	313	11	<5	99	148	181	<1	9

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
191	May-02	LT	54	3	0.70	2.0	47	21				<0.002	0.6	
cont.	Oct-02		40	3	0.90	1.8	39	23			0.20	<0.002	1.0	
	May-03		36	3	0.90	1.7	34	26				0.0020	1.1	
	Oct-03		35	2	1.00	1.8	35	27			0.14	<0.002	0.8	
	May-04		38	4	1.00	1.8	41	24				<0.002	1.2	<0.05
	Oct-04		37	3	1.10	1.6	38	27			<0.1	<0.002	1.9	
	May-05		47	4	0.80	1.8	45	24			0.10	0.0010	1.4	
	Oct-05		39	2	0.80	1.8	39	26			<0.5	<0.001	0.9	
	May-06		54	5	0.50	2.0	47	23			0.20	<0.001	2.8	
	Oct-06		36	4	0.80	2.0	43	27			0.20	<0.001	1.0	
	May-07		52	5	0.80	2.0	45	23			<0.2	<0.001	2.0	
	Oct-07		39	3	0.80	2.0	34	25			<0.2	<0.001	1.0	
	May-08		47	10	0.90	2.0	33	22			0.30	<0.001	2.0	
	Oct-08		40	7	1.00	2.0	32	25			0.40	<0.001	1.0	
	May-09		62.4	6.30	0.57	8.80	39.8	22.1	1.21	<0.10		<0.0010	2.3	
	Oct-09		50.1	4.30	0.76	3.80	36.8	21.1	0.49	<0.10		<0.0010	2.0	
	May-10		37.6	2.63	0.83	2.57	32.7	24.9	0.13	<0.05		<0.001	1.3	
	Oct-10		38.2	2.32	0.89	2.16	34.5	24.0	0.08	<0.05		<0.001	4.7	
	Jun-11		51.3	5.59	0.54	2.35	52.5	19.8	0.13	<0.05		<0.001	2.9	
	Oct-11		45.5	3.92	0.71	2.25	44.9	23.0	0.06	<0.05		<0.001	5.5	
	May-12		44.8	4.90	0.35	2.45	49.7	20.2	0.21	<0.05		<0.001	7.0	
	Oct-12		37.8	3.81	0.71	2.37	36.2	22.3	0.12	<0.05		<0.001	2.4	
	May-13		44.8	4.01	0.72	2.26	42.6	21.0	<0.25	<0.25		<0.001	3.6	
	Oct-13		45.2	3.92	0.58	2.13	46.0	22.4	0.31	<0.10		<0.001	4.5	
	May-14		55.6	5.53	0.77	3.98	50.9	22.7	1.58	<0.05		<0.001	6.8	
	Oct-14		48.0	5.40	0.72	2.40	48.1	20.8	1.11	<0.10		<0.001	2.4	
	May-15		49.3	5.13	0.60	2.22	46.2	21.1	0.67	<0.05		<0.001	2.7	
	Oct-15		43.6	3.78	0.68	2.08	41.2	23.7	0.23	<0.10		<0.001	4.4	
	May-16		45.6	5.06	0.77	2.08	44.4	22.2	0.62	<0.05		<0.001	4.0	
	Oct-16		37.7	3.01	0.90	1.77	37.2	21.0	0.38	<0.05		<0.001	1.7	
	May-17		42.7	4.20	0.85	1.84	37.0	21.6	0.74	<0.05		<0.001	2.8	
	Oct-17		35.9	2.53	0.93	1.59	33.6	22.5	0.42	<0.10		<0.001	2.8	
231	Mar-86	LT	25	11		2.8	14	28				0.0010	4.0	
	Jun-86		21	10		2.8	13	29				<0.001	2.9	
	Oct-86		22	8			13					0.0020	2.5	
	Apr-87		20	8			13					<0.001	2.5	
	Oct-87		25	7			17					0.0010	2.8	
	May-88		22	7			13					0.0010	2.4	
	Feb-90													
	May-98		17	3	1.70	1.6	12	31				<0.001	2.2	
	Nov-98		16	4	1.70	1.6	12	31				<0.001	2.3	
	Jun-99		17	2	1.80	1.6	12	31				<0.001	1.3	
	Oct-99		15	1	1.80	1.6	12	32				<0.001	0.6	
	Jun-00		16	1	1.80	1.6	13	33				0.0050	0.9	
	Oct-00		17	1	1.60	1.5	13	33				<0.001	0.8	
	May-01		17	1	1.80	1.5	14	33				<0.001	0.9	
	Nov-01		17	1	1.80	1.5	14	32				<0.001	0.7	
	May-02		18	1	1.80	1.4	14	32				<0.002	0.7	
	Oct-02		16	2	1.80	1.5	14	32			<0.1	<0.002	0.6	
	May-03		17	2	1.70	1.4	14	34				<0.002	0.7	
	Oct-03		17	2	1.70	1.5	15	34			<0.1	<0.002	1.0	
	May-04		17	2	2.00	1.4	15	34				<0.002	1.1	0.09
	Oct-04		16	1	1.80	1.3	14	34			<0.1	<0.002	3.2	
	May-05		18	1	1.60	1.4	14	34			<0.1	0.0010	1.0	

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· † - sampled by Oxford County Board of Health

**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L	
			pH	Cond.	Temp.										
ODWQS			6.5 - 8.5			6.5 - 8.5	5	5	80 - 100	30 - 500			500		
Guideline B-7			OG	NC	NC	OG	AO	AO	OG	OG	NC	NC	AO		
										387			296		
231R	Oct-05	LT				8.4	402	52	11		178	210		33	
	May-06					8.0	348	150	360	130	140	139	<10	34	
	Oct-06					8.2	332	56	480	130	150	148	<10	28	
	May-07					8.2	335	47	92	110	130	128	<10	26	
	Oct-07					8.3	335	53	170	110		157	<10	23	
	May-08					8.3	337	53	72	90	150	147	<10	26	
	Oct-08					8.3	332	107	1	110	160	157	<10	25	
	May-09					8.32	337	61	2	115	152	149	<10	23.8	
	Oct-09					8.34	334	50	2	102	159	156	<10	24.1	
	May-10			8.43	330	9.7	8.26	309	23	5	87	151	151	<5	24.4
	Oct-10			8.13	330	10.3	8.40	291	22	<5	93	150	144	<5	23.1
	Jun-11			8.20	279	10.4	8.24	305	256	<5	93	148	148	<5	23.5
	Oct-11			7.86	308	9.8	8.27	310	664	<5	96	151	151	<5	25.9
	May-12			8.68	373	10.6	8.10	329	32.6	<5	88	156	156	<5	22.5
	Oct-12			8.48	259	10.8	8.39	301	352	<5	98	159	153	6	20.6
	May-13			8.14	367	10.5	8.23	343	62.2	<5	90	151	151	<5	23.7
	Oct-13			8.49	371	9.9	8.24	342	39.1	<5	91	160	160	<5	23.6
May-14			8.30	351	10.1	8.28	337	393	<5	94	146	146	<5	23.1	
Oct-14			8.29	335	11.6	8.00	339	3800	10	89.9	156	156	<5	24.8	
May-15			8.21	240	11.9	8.34	338	6370	<50	87.0	157	151	5	23.8	
Oct-15			7.99	251	11.0	8.01	347	5720	<5	87.3	150	150	<5	24.1	
May-16			7.23	267	10.5	7.87	346	4380	<5	101	162	162	<5	26.1	
Oct-16			7.90	320	13.6	8.21	355	4890	<5	87.8	159	159	<5	22.9	
May-17			8.43	294	10.40	7.71	365	8380	7	87.4	164	164	<5	25.7	
Oct-17			7.38	255	11.03	8.10	320	287	<5	93.8	155	155	<5	23.0	
595	Oct-14	LT	8.10	532	9.4	8.28	620	9340	<5	147	123	123	<5	156	
	May-15		8.00	415	12.0	8.17	596	3110	<5	145	107	107	<5	180	
	Oct-15		8.20	442	13.2	7.87	640	12200	<5	156	98	98	<5	177	
	May-16		8.09	486	13.7	7.80	624	487	<5	148	104	104	<5	223	
	Oct-16		8.16	580	12.2	8.08	620	12700	5	148	101	101	<5	229	
	May-17		8.16	568	9.39	8.01	726	3760	9	139	108	108	<5	207	
	Oct-17		7.65	466	12.00	8.05	601	5640	6	148	103	103	<5	219	
999	1998 †	B				8.3	282	1	5	73					
	Nov-98					8.9	214	0	<5	29					
	1999 †					8.2	320	1	<5	71					
	Jun-99					8.2	336	1	<5	83					
	Oct-99					7.9	349	3		6	116				
	2000 †					8.2	322	1		6	78				
	Jun-00					8.1	355	1		10	122				
	Oct-00					8.0	353	1		8	75				
	2001 †					8.1	265	1	<5	80					
	May-01					8.1	327	27	8	134					
	Nov-01					7.8	667	2	<5	191					
	Apr-02 †					8.1	376	2		9	116				
	May-02					8.1	427	3	<5	179					
	Oct-02					8.2	313	1		10	78				
	Apr-03 †					8.2	315	1		8	85				
	May-03					8.3	334	1		12	83	173	170	3	8
	Oct-03					8.2	322	1		12	79	171	168	3	8
Apr-04 †					8.1	321	0	3	90						
May-04					8.1	464	2	5	201	185	183	2	29		
Oct-04					8.3	400	6	6	131	173	170	3	17		
Apr-05 †					8.3	322	1	nd	87						
May-05															
Apr-06					8.0	353	6	10	170						
Apr-07					8.1	310	1	20	90						
Apr-08					8.2	414	2	8	170						

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS				250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7			NC	127				114	2.70	0.27			3.1	
231R	Oct-05	LT	24	6	1.30	2.0	17	42			<0.5	<0.001	1.4	
	May-06		25	4	1.20	2.0	17	43			<0.2	<0.001	1.6	
	Oct-06		25	3	1.60	2.0	16	35			<0.2	<0.001	2.0	
	May-07		20	2	1.50	2.0	15	42			<0.2	<0.001	2.0	
	Oct-07		22	<2	1.50	2.0	14	39			<0.2	<0.001	1.0	
	May-08		16	7	1.70	1.0	12	37			0.20	<0.001	<1	
	Oct-08		21	6	1.70	1.0	14	38			0.20	<0.001	1.0	
	May-09		19	<2.0	1.58	1.50	16.1	40	0.14	<0.10		<0.0010	1.9	
	Oct-09		19.0	3.20	1.71	1.30	13.4	38.9	0.20	<0.10		<0.0010	1.2	
	May-10		14.2	0.97	1.35	1.29	12.5	32.5	<0.05	<0.05		<0.001	0.7	
	Oct-10		15.5	1.03	1.65	1.27	13.2	37.7	<0.05	<0.05		<0.001	6.8	
	Jun-11		15.0	1.19	1.59	1.39	13.4	36.0	<0.05	<0.05		<0.001	2.3	
	Oct-11		16.1	1.17	1.55	1.36	13.6	37.9	<0.05	<0.05		<0.001	1.2	
	May-12		14.5	1.17	1.39	1.18	12.6	36.8	<0.05	<0.05		<0.001	3.9	
	Oct-12		16.5	1.65	1.37	1.37	13.9	40.2	<0.05	<0.05		<0.001	1.4	
	May-13		15.1	1.12	1.65	1.33	12.6	33.8	0.10	<0.05		<0.001	3.4	
	Oct-13		15.6	1.19	1.70	1.27	12.7	36.9	<0.05	<0.05		<0.001	3.2	
	May-14		15.6	1.15	1.58	1.20	13.4	38.1	<0.05	<0.05		<0.001	1.7	
	Oct-14		14.4	1.29	1.64	1.21	13.1	37.0	<0.05	<0.05		<0.001	1.1	
	May-15		14.4	1.23	1.61	1.34	12.4	39.3	<0.05	<0.05		<0.001	5.9	
	Oct-15		14.2	1.52	1.63	1.40	12.6	40.4	<0.05	<0.05		<0.001	2.6	
	May-16		17.7	1.45	1.66	1.97	13.8	39.4	<0.05	<0.05		<0.001	1.2	
	Oct-16		14.4	1.12	1.70	1.21	12.6	33.3	<0.05	<0.05		<0.001	1.3	
	May-17		14.4	1.15	1.76	1.26	12.5	37.7	<0.05	<0.05		<0.001	1.1	
	Oct-17		15.3	0.84	1.51	1.48	13.5	39.0	<0.05	<0.05		<0.001	1.8	
595	Oct-14	LT	39.6	7.35	0.60	3.08	11.8	62.4	3.44	<0.10		<0.001	3.7	
	May-15		38.4	3.55	0.76	2.34	11.9	72.4	0.98	<0.05		<0.001	2.7	
	Oct-15		41.1	3.44	0.87	2.30	12.9	74.4	0.64	<0.10		<0.001	3.8	
	May-16		37.4	3.08	1.15	2.16	13.2	76.8	0.20	<0.05		<0.001	2.8	
	Oct-16		38.5	2.59	1.03	1.82	12.7	69.4	0.09	<0.05		<0.001	3.3	
	May-17		35.2	4.04	0.98	1.35	12.4	67.7	0.29	<0.05		<0.001	1.8	
	Oct-17		37.4	2.10	1.23	1.66	13.2	75.9	<0.10	<0.10		<0.001	2.3	
999	1998 †	B	14	1	2.20		9					<0.001	1.2	
	Nov-98		4	8	0.40	4.1	5	34				<0.001	1.7	
	1999 †		14	1	2.30		9					<0.001	1.7	
	Jun-99		16	1	2.20	0.9	10	50				<0.001	1.9	
	Oct-99		23	1	2.00	1.2	15	44				<0.001	1.3	
	2000 †		16	1	2.50		10					<0.001	1.5	
	Jun-00		22	2	2.00	1.1	16	41				0.0040	1.4	
	Oct-00		14	1	2.20	0.9	9	49				<0.001	1.4	
	2001 †		16	1	0.20		10					<0.001	1.6	
	May-01		28	1	2.00	1.0	16	39				<0.001	1.3	
	Nov-01		39	2	1.70	1.0	23	29				<0.001	1.2	
	Apr-02 †		23	1	2.30		15					<0.002	1.6	
	May-02		36	2	1.60	1.2	22	30				<0.002	1.0	
	Oct-02		15	2	2.10	1.0	10	47				<0.002	1.5	
	Apr-03 †		16	2	2.10		11					<0.002	1.4	
	May-03		16	1	2.10	1.1	11	49				<0.002	1.2	
	Oct-03		15	2	2.30	1.0	10	49			<0.1	<0.002	1.4	
	Apr-04 †		17	2	2.10		11					0.0020	0.8	
	May-04		41	4	1.70	1.0	24	28				<0.002	1.3	0.25
	Oct-04		26	2	2.10	1.4	16	41			<0.1	<0.002	2.4	
	Apr-05 †		17	1	1.90		11					nd	1.8	
	May-05			2										
	Apr-06		33	<2	1.20		20				<0.1	<0.001	3.0	
	Apr-07		19	<2	2.10		11				<0.1	<0.001	2.0	
	Apr-08		33	3	1.70		21				0.20	<0.001	1.0	

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**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Field			pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Bicarbonate mg/L	Carbonate mg/L	Sulphate mg/L
			pH	Cond.	Temp.									
ODWQS			6.5 - 8.5			6.5 - 8.5		5	5	80 - 100	30 - 500			500
Guideline B-7			OG	NC	NC	OG	NC	AO	AO	OG	OG	NC	NC	AO
											387			296
999	Apr-09 †	B				7.91	350	0.74	11.3	80				
cont.	Apr-10 †					8.16	339	1.22	5.8	96				
	Jun-11 †		8.13	290	13.9	8.12	322	0.96	6.7	82				
	Apr-12 †		8.01	531	15.9	8.14	325	0.76	5.8	73				
	May-13 †		7.97	424	11.5	8.24	272	0.61	7.3	78				
	Apr-14 †					8.27	331	0.5	6.2	107				
	May-14		8.18	353	11.5	8.10	350	1.1	9	80	163	163	<5	9.52
	Oct-14					8.32	350	0.7	10	77.5	162	161	<5	8.02
	Apr-15 †					8.40	343	0.34	6.1	115				
	May-15		7.51	265	17.0	8.20	378	1.1	11	127	181	181	<5	18.7
	Oct-15		7.60	270	16.8	7.95	326	1.1	9	52.0	151	151	<5	8.23
	May-16		7.81	328	16.6	7.98	423	2.5	7	143	206	206	<5	23.1
	Oct-16		8.08	310	16.1	8.30	328	0.6	8	73.7	168	167	<5	7.18
	May-17		8.42	311	17.60	8.15	356	<0.5	7	69.3	168	168	<5	8.46
	Oct-17		7.62	402	17.50	8.15	444	2.4	<5	191	210	210	<5	31.9
03-08	May-05	R				7.36	12200	75.8	1050	1500	5500	6710	<1	<50
	Oct-05					8.04	11600	32.4	1160		5950	7250		<10
	May-06					7.41	11100	>200	4500	1440	5900	5890	14	<2
	Oct-06					7.61	11600	29	1100	1670	5300	5280	20	<40
	May-07					7.42	9460	>200	639	1550	4600	4590	11	<40
	Oct-07					7.47	10300	155	640	1380	5000	4990	14	<40
	May-08					7.39	8820	149	360	1400	4200	4190	<10	<40
	Oct-08					7.28	8790	156	320	1180	3800	3790	<10	<40
	May-09					7.43	8950	>200	316	1390	3940	3930	<10	<40
	Oct-09					7.12	10900	168	330	1320	4140	4140	<10	<40
	May-10		7.23	8990	16.2	7.65	8080	1.3	499	1240	4010	4010	<5	5.22
	Oct-10		7.25	10220	18.1	7.76	7620	62	587	1320	4290	4290	<5	5.67
	Jun-11		7.11	> 4000	20.0	7.99	6390	148	389	1280	3260	3260	<5	10.9
	Oct-11		7.14	73225	19.1	8.33	7710	274	673	1280	4280	4280	<5	19.9
	May-12		7.28	9070	21.8	7.75	8790	40.3	574	1290	3790	3790	<5	27.9
	Oct-12		6.96	>3999	19.8	8.29	6860	823	531	1320	3440	3440	<5	17.0
	May-13		6.70	7110	23.8	8.06	6580	262	357	1270	2520	2520	<5	15.2
	Oct-13		6.88	7690	21.7	8.37	7990	220	437	1160	3800	3800	114	14.5
	May-14		6.81	8070	21.2	8.00	8040	167	490	1090	3230	3230	<5	18.3
	Oct-14		7.31	8130	17.8	8.32	8120	470	463	1090	3710	3660	51	20.1
	May-15		6.92	7950	19.8	8.13	7560	327	369	1070	3190	3190	<5	11.8
	Oct-15		7.00	>3999	18.8	7.96	7580	540	<5	863	2960	2960	<5	<10
	May-16		6.85	7700	23.5	8.05	7990	622	377	1160	3240	3240	<5	<10
	Oct-16		-	-	-	7.97	8120	249	410	1220	3460	3460	<5	<5.0
	May-17		7.00	7480	16.25	7.99	9410	161	480	1080	3620	3620	<5	<10
	Oct-17		6.91	8560	20.30	7.94	7420	350	414	1230	3720	3720	<5	17.1

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · IMAC - Interim Maximum Acceptable Concentration · † - sampled by Oxford County Board of Health
 · NC - No criteria · AO - Aesthetic Objective
 · MAC - Maximum Acceptable Concentration · OG - Operational Guideline

**Table D-1: Groundwater Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Unit	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Ammonia mg/L
ODWQS			NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	1 MAC	10 MAC	NC	5 AO	NC
Guideline B-7				127				114	2.70	0.27			3.1	
999	Apr-09 †	B	14.2	<2.0	1.81		11.20		<0.10	<0.10	<0.20	<0.001	2.1	
cont.	Apr-10 †		20.5	<2.0	2.22		11.00		<0.10	<0.10	<0.2	<0.001	1.8	
	Jun-11 †		16.3	<2.0	2.34		9.92		<0.10	<0.10	<0.2	0.0046	2.7	
	Apr-12 †		15.7	<2.0	2.19		8.14		<0.10	<0.10	<0.2	<0.0010	2.7	
	May-13 †		15.9	<2.0	2.32		9.29		<0.10	<0.10	<0.2	<0.0010	2.0	
	Apr-14 †		27.4	<2.0	2.31		9.48					<0.0010	2.3	
	May-14		15.9	1.41	2.26	0.95	9.74	43.2	<0.05	<0.05		<0.001	7.0	
	Oct-14		14.8	1.27	2.39	1.06	9.85	48.9	<0.05	<0.05		<0.001	3.6	
	Apr-15 †		26.5	1.31	2.25		11.7		<0.020	<0.010		<0.0018	<1.0	
	May-15		26.3	3.23	1.91	0.99	15.0	37.3	<0.05	<0.05		<0.001	5.0	
	Oct-15		9.10	1.30	2.14	1.07	7.12	48.6	<0.05	<0.05		0.002	3.9	
	May-16		29.6	4.23	2.06	1.02	16.7	32.5	<0.05	<0.05		<0.001	2.6	
	Oct-16		14.8	1.14	2.06	0.94	8.93	44.3	<0.05	<0.05		<0.001	3.9	
	May-17		13.5	1.08	2.41	0.99	8.65	46.9	<0.05	<0.05		<0.001	1.8	
	Oct-17		39.5	4.73	1.54	1.47	22.4	26.0	<0.05	<0.05		<0.001	2.5	
03-08	May-05	R	130	1240	<10	710	260	1300			<10	0.0190	490	
	Oct-05		130	1250	<5	820	300	1400			<5	0.0120	386	
	May-06		126	1180	<2	830	272	1280			<4	<0.025		
	Oct-06		140	1240	3.20	700	321	1070			<4	0.0090	400	
	May-07		174	934	2.90	310	271	966			<4	<0.016	350	
	Oct-07		141	1060	2.00	539	249				<4	<0.001	350	
	May-08		162	823	3.00	500	242	730			<2	0.0500	250	
	Oct-08		118	827	<5	400	214	700			<2	0.0260	284	
	May-09		158	919	<5.0	520	241	847	<2.0	<2.0		0.0280	328	
	Oct-09		170	967	2.03	474	217	742	<2.0	<2.0		<0.0010	220	
	May-10		139	699	0.96	490	216	627	<0.05	<0.05		0.0730	333	
	Oct-10		147	806	<0.05	515	231	746	<0.05	<0.05		0.0590	253	
	Jun-11		182	643	<0.05	368	200	547	<0.05	<0.05		0.1370	117	
	Oct-11		134	873	<0.50	518	230	800	<0.50	<0.50		0.0220	134	
	May-12		156	810	<0.50	449	218	730	<0.50	<0.50		0.0340	108	
	Oct-12		153	878	0.46	489	227	786	0.13	<0.05		0.1070	259	
	May-13		195	253	<5	342	191	582	<5	<5		0.0440	239	
	Oct-13		151	845	<5	419	189	712	<5	<5		0.1160	247	
	May-14		130	706	0.92	417	187	705	<0.05	<0.05		0.036	223	
	Oct-14		120	835	<2.5	426	193	657	<2.5	<2.5		0.132	230	
	May-15		140	758	<1.0	387	174	613	<1.0	<1.0		0.023	228	
	Oct-15		84.9	707	<5	391	158	676	<5	<5		0.180	192	
	May-16		156	850	<5	354	186	602	<5	<5		0.049	322	
	Oct-16		159	816	<2.5	351	201	598	<2.5	<2.5		0.069	257	
	May-17		133	827	<5	382	181	611	<5	<5		0.057	249	
	Oct-17		154	725	<2.5	392	205	646	<2.5	<2.5		0.025	233	

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003)
· NC - No criteria
· MAC - Maximum Acceptable Concentration

· IMAC - Interim Maximum Acceptable Concentration
· AO - Aesthetic Objective
· OG - Operational Guideline

· † - sampled by Oxford County Board of Health



**Table D-2: Groundwater Chemical Results - Chloride in Selected Wells
Oxford County Waste Management Facility**

Unit / Monitor	Bedrock	Lower Till	Inter-Till Sands	Upper Till										Fractured Till	Glaciolacustrine					
	999	022R	012R	00-01	00-02	00-04	03-3	03-4	03-5	03-6	03-7d	013R	023R	03-7s	98-7	98-11	98-12	98-13	05-01	
1998 †	1																			
Nov-98	8																			
1999 †	1																			
Jun-99	1																			
Oct-99	1																			
2000 †	1																			
Jun-00	2														22	207	33	1		
Oct-00	1														19	206	28	1		
2001 †	1																			
May-01	1														20	114	39	1		
Jun-01				40	59	61														
Nov-01	2														21	132	34	1		
Apr-02 †	1																			
May-02	2														20	106	41	1		
Oct-02	2			41	56	31									23	500	74	2		
Apr-03 †	2																			
May-03	1		9	42	64	24						13			39	165	57	2		
Oct-03	2		7	42	58	40	232	503	434	19	10	11		59	32	205	51	2		
Apr-04 †	2																			
May-04	4		6	41	57	34	276	443	796	33	10	11		31	34	44	48	2		
Jul-04					57		456	421	792	34						69				
Sep-04					56		493	356	713	34						113				
Oct-04	2		6	44	58	40	765	355	669	32	10	10		53	33	239	49	2		
May-05	2		6	47	59	17	183	303	710	34	9	8		41	31	40	48	2		
May-06	2		8	53	65	13	141	304	438	41	11	9		50	35	21	60	3		
May-07	<2		7	47	57	14	208	259	302	42	10	8		35	39	42	56	<2		
May-08	3		7	48	58	16	130	271	192	44	10	9		59	42	52	70	<2		
May-09	2.1	2.1	6.8	48.0	56.2	13.2	134	280	200	45.7	9.7	8.2	25.9	46.2	37.6	43.1	67.4	<2.0	5.9	
May-10	0.90	1.14	7.23	50.0	57.7	21.7	308	288	219	50.9	9.14	8.49	26.0	101.0	43.0	91.4	74.1	1.23	5.70	
Jun-11	1.23	0.34	7.31	52.1	56.9	13.8	233	289	182	53.6	9.93	9.42	27.7	54.5	42.2	70.6	72.4	3.51	6.76	
May-12	4.79	1.46	7.13	50.7	56.4	37.1	227	294	187	52.8	10.2	8.90	25.5	82.6	39.6	81.4	68.8	1.77	7.77	
May-13	3.18	3.00	7.76	54.8	55.6	42.0	162	293	172	56.9	10.0	9.24	26.0	95.0	36.5	53.9	77.3	1.50	8.00	
May-14	1.41	1.47	8.70	62.7	57.9	51.2	228	331	176	62.8	12.2	10.1	23.6	87.0	42.2	43.5	86.3	1.60	9.65	
May-15	3.23	1.53	8.05	58.8	52.2	47.9	225	302	168	59.9	11.6	9.51	25.5	113	39.6	66.1	78.1	1.45	8.93	
May-16	4.23	1.40	9.78	70.3	61.2	49.2	152	322	188	70.3	13.1	10.8	26.2	91.0	44.6	44.4	92.5	1.90	10.8	
May-17	1.08	1.26	7.89	64.0	53.7	46.3	93.2	323	205	62.8	10.9	9.23	24.7	57.7	36.6	36.4	84.9	1.97	9.64	

Notes: · Units = mg/L

· † - Sampled by Oxford County Board of Health. Other samples collected as part of on-site monitoring program.

Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility

Monitor	Date	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Sulphate	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate
			µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS	6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	
902	Dec-86	8.20	357			53	175	4	9	3		0.7	8	55	
	Jan-87	8.20	357			53	175	4	9	2		0.7	8	55	
	Jul-87	8.20	333			53			10	3			7		
	Jun-88	8.10	342			48			9	2			6		
	Dec-88	8.00	346			53	172	3	10	2		0.8	7	57	
	Jul-89	8.20	344			64	183	2	14	2		0.8	7	64	
	Feb-90	8.10	343			54	179	2	10	2		0.7	7	56	
	Feb-91	8.20	340			55	174		11	2			7		
	Jul-91	8.20	344			58	171	1	12	2		0.9	7	56	
	Sep-92	8.20	342			55	173	1	11	2		0.8	7	63	
	Apr-93	8.30	347			57	184	2	12	2		0.8	7	66	
	May-93														
	Nov-94	8.10	362			109	182	13	20	2		1.0	14	46	
	Apr-95	8.10	362			104		10	19	2		1.1	14	46	
	Sep-95	8.00	358			104	197	11	20	2		1.2	13	45	
	Apr-96	8.10	360			101	192	10	19	1		1.1	13	43	
	Jun-97	8.40	355		9	100			19	2	2.50		13		
	Apr-98	8.30	305		<5	96			18	2	2.50		12		
	Apr-99	8.00	329	0.7	<5	93			17	1	2.50		12		
	Apr-00	8.10	352	0.8	<5	99			19	1	2.90		13		
	Apr-01	8.00	277	0.7	<5	94			18	1	2.90		12		
	Apr-02	8.10	342	0.7	<5	93			17	1	2.70		12		
	Apr-03	8.20	339	0.6	6	101			19	2	2.20		13		
	Apr-04	8.00	318	0.9	2.8	96			18	2	2.40		12		
	Apr-05	8.20	344	0.8	nd	106			20	1	2.30		13		
	Apr-06	8.10	292	0.95	8	100			19	<2	1.80		13		
	Apr-07	8.10	312	2.3	18	90			18	<2	2.20		11.2		
	Apr-08	8.30	323	1.7	10	90			16	<2	2.20		10.8		
	Apr-09	8.21	320	2.7	9.2	80			14.3	<2.0	1.80		11.2		
	Apr-10	8.23	327	4.4	5.6	155			44.8	<2.0	2.35		10.4		<0.10
	Apr-11	8.21	327	2.3	4.3	88			17.6	<2.0	2.37		11		0.11
	Apr-12	8.11	328	2.5	4.0	71			14.9	<2.0	2.23		8.17		<0.10
	Apr-13	8.20	275	2.7	5.2	77			15.7	<2.0	2.37		9.26		<0.10
	Apr-14	8.20	336	3.35	5.4	92			21.2	<2.0	2.38		9.49		<0.10
	Apr-15	8.39	333	4.15	5.8	90			20.5	1.12	2.39		9.32		0.023
	Apr-16	8.32	336	5.23	12.1	52			10.3	1.58	2.87		6.38		0.043
	Apr-17	8.36	343	5.94	11.6	54			11.1	1.56	2.72		6.37		0.020
904	Sep-85	7.60	545			273	273		55	6			33		
	Dec-88	7.70	529			244	258	22	46	6		1.8	31	17	
	Jul-89	7.40	575			282	278	25	58	9		1.8	33	15	
	Feb-90	7.70	581			282	261	35	65	13		1.8	29	11	
	Feb-91	7.60	607			3	283		1	13			0		
	Jul-91	7.90	531			249	255	25	46	8		1.9	32	14	
	Apr-93	7.80	591			309	291	31	73	13		1.9	31	12	
	Apr-93														
	Nov-94	8.20	508			265	253	20	47	8		2.1	36	18	
	Apr-96	8.50	374		9	325	269	44	84	13		2.1	28	8	
	Jun-97	8.20	567	1.7	<5.0	294			61	17	0.70		35		
	Apr-98	8.30	482	1.2		0.9				10	0.80				
	Apr-00	8.00	660	0.4	<50	363			93	17	0.40		32		
	Apr-01	7.50	552	1.2	<5.0	379			109	13	0.40		26		
	Apr-02	7.90	640	3.1	6	347			102	9	0.20		22		
	Apr-03	8.00	596	0.5	<5.0	345			99	12	0.20		24		
	Apr-04	7.80	597	0.8	<2.5	353			97	10	0.30		27		
	Apr-05	8.00	585	0.4	nd	293			84	11	0.20		20		
	Apr-06	7.70	504	0.9	<1	310			71	13	0.40		33		
	Apr-07	7.60	592	0.3	<1	370			95	14	0.40		33		
	Apr-08	8.00	546	0.3	3	320			92	9	0.20		21		
	Apr-09	7.97	533	0.74	2.7	270			72.4	10.5	0.19		21.5		0.58

Notes: * - ODWQS - Ontario Drinking Water Quality Standard (June 2003) * - MAC - Maximum Acceptable Concentration * - AO - Aesthetic Objective * - NC - No criteria
 * - indicates anomalous data, water likely softened * - IMAC - Interim Maximum Acceptable Concentration * - OG - Operational Guideline

**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1 MAC	10 MAC	NC	5.0 AO	0.025 IMAC	1.0 MAC	0.005 MAC	0.05 MAC	1 AO	0.30 AO	0.01 MAC	NC	0.01 MAC	NC	5 AO
902	Dec-86			0.001	2.7	6.0		0.3	1.0	4.0	0.44	3.0	2.0	1.0		110.0
	Jan-87			0.001	2.7						0.44					
	Jul-87			0.001												
	Jun-88			0.001	2.3											
	Dec-88			0.001	3.2						0.21					
	Jul-89			0.001	2.6						0.42					
	Feb-90			0.001	2.1						0.48					
	Feb-91			0.001	2.6						0.42					
	Jul-91			0.001	2.2	4.6		0.1	0.5	1.0	0.42	1.0	0.2	1.0	1.0	32.0
	Sep-92			0.001	2.5						0.67					
	Apr-93			0.001	2.6						0.53					
	May-93					5.2	39.5	0.4	0.2	1.2		3.0	7.8	1.0	0.9	93.1
	Nov-94			0.006	1.6						0.48					
	Apr-95			0.001	1.7						0.16					
	Sep-95			0.001	1.9	0.5	172.0	0.6	2.0	2.0	0.18	1.0	2.0	0.4	3.0	52.0
	Apr-96			0.001	1.6						0.17					
	Jun-97			<0.001	1.0						0.16					
	Apr-98			<0.001	1.1											
	Apr-99		<0.2	<0.001	1.6											
	Apr-00			<0.001	1.4											
	Apr-01			<0.001	1.4											
	Apr-02			<0.002	1.4											
	Apr-03			<0.002	1.6											
	Apr-04			0.002	1.2											
	Apr-05			0.002	1.7											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	2.0											
	Apr-08		<0.2	<0.001	1.0											
	Apr-09	<0.10	<0.20	<0.0010	2.3											
	Apr-10	<0.10	<0.20	<0.0010	2.3											
	Apr-11	<0.10	<0.20	0.004	2.5											
	Apr-12	<0.10	<0.2	<0.0010	2.2											
	Apr-13	<0.10	<0.2	<0.0010	2.1											
	Apr-14	<0.10		<0.0010	1.9											
	Apr-15	<0.010		0.0017	1.1											
	Apr-16	<0.010		0.0133	4.6											
	Apr-17	<0.010		0.0067	2.8											
904	Sep-85				2.1	2.0		0.3	1.0	8.0	0.14	3.0	2.0	1.0		160.0
	Dec-88			0.001	1.6						0.18					
	Jul-89			0.013	1.9						0.04					
	Feb-90			0.001	0.9						0.07					
	Feb-91			0.001	1.1						0.16					
	Jul-91			0.001	0.6	3.8	170.0	0.1	0.5	7.2	0.42	1.3	0.4	1.0		88.0
	Apr-93			0.001	1.0						0.07					
	Apr-93					2.2	122.3	1.1	0.2	21.5		5.0	0.2	1.0	0.2	91.5
	Nov-94			0.001	0.3						0.04					
	Apr-96			0.001	2.8						0.29					
	Jun-97			<0.001	0.6						0.08					
	Apr-98			<0.001	<0.5											
	Apr-00			<0.001	1.3											
	Apr-01			<0.001	1.8											
	Apr-02			<0.002	1.6											
	Apr-03			<0.002	2.1											
	Apr-04			0.002	1.4											
	Apr-05			<0.001	58.7											
	Apr-06		0.50	<0.001	2.0											
	Apr-07		0.60	<0.001	2.0											
	Apr-08		0.90	<0.001	2.0											
	Apr-09	<0.10	0.58	<0.0010	3.4											

Notes: - ODWQS - Ontario Drinking Water Quality Standard (June 2003) - MAC - Maximum Acceptable Concentration - AO - Aesthetic Objective - NC - No criteria
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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Sulphate mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L
		6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC
904	Apr-10	7.91	614	0.30	1.7	354			91.0	15.2	0.40		30.8		<0.10
Cont.	Apr-11	8.03	563	0.44	4.2	276			82.9	12.9	0.21		16.9		0.35
	Apr-12	7.86	611	0.37	1.2	211			47.9	18.2	0.51		22.1		0.16
	Apr-13	7.92	411	1.82	5.5	283			83.1	13.8	0.24		18.3		0.48
	Apr-14	7.76	678	0.70	1.4	333			98.6	16.6	0.18		21.0		0.35
	Apr-15	8.07	668	0.97	2.1	351			106	24.4	0.185		20.8		0.522
	Apr-16	7.88	579	1.10	1.4	295			91.7	22.7	0.121		16.0		0.141
	Apr-17	8.01	553	0.43	3.6	290			90.1	14.2	0.144		15.9		0.095
906	Sep-85	8.00	356			106	191	5	20	1		1.1	14	39	
	Mar-87	8.20	345			111			20	2			15		
	Jun-87	7.90	351			98			17	1			13		
	Dec-88	7.90	362			104	169	8	18	2		1.4	14	36	
	Jul-89	8.00	356			196	187	5	53	1		1.1	16	35	
	Jul-91	8.00	357			108	176	6	19	1		1.2	15	33	
	Apr-93	7.80	406			158	222	3	31	2		1.0	19	30	
	May-93														
	Apr-95	8.10	353			109		6	14	1		1.4	18	42	
	Sep-95	8.20	359			1	190	3	0	1		0.2	0	93	
	Apr-96	7.90	475			3	215	5	10	2		0.2	1	92	
	Jun-97	8.40	535	1.6	9	126			23	3	1.70		17		
	Apr-98	8.30	303	1.7	<5	116			21	1	1.70		16		
	Apr-99	8.00	330	0.88	<5	113			19	1	1.80		16		
	Apr-00	8.40	375	0.25	<5	113			<0.05	3	1.80		0		
	Apr-01	8.10	290	2.45	<5	105			17	1	2.10		16		
	Apr-02	8.10	352	3.86	<5	116			20	2	1.70		16		
	Apr-03	8.20	368	0.15	<5	128			23	11	1.50		17		
	Apr-04	8.10	327	<0.1	<2.5	123			22	2	1.70		17		
	Apr-05	8.20	349	0.20	nd	129			23	1	1.50		18		
	Apr-06	8.20	297	0.10	<1	120			20	<2	1.20		17		
	Apr-07	8.30	297	0.10	<1	130			20	<2	1.60		17		
	Apr-08	8.20	321	1.3	6	120			20	<2	1.70		16		
	Apr-09	8.24	341	<0.10	3.3	110			19	<2.0	1.29		14.3		<0.10
	Apr-10	8.23	349	<0.10	2.6	135			27.9	<2.0	1.71		15.9		<0.10
	Apr-11	8.11	350	<0.10	3.5	120			23.3	<2.0	1.70		15.0		0.36
	Apr-12	8.08	347	0.30	2.4	108			21.5	<2.0	1.62		13.1		<0.10
	Apr-13	8.15	302	0.50	3.7	115			21.2	<2.0	1.71		15.1		<0.10
	Apr-14	8.00	355	<0.10	3.5	144			31.7	<2.0	1.71		15.7		<0.10
	Apr-15	8.35	352	0.67	5.6	142			31.0	1.48	1.72		15.6		<0.020
	Apr-16	8.20	352	0.66	3.3	117			21.3	1.46	1.67		15.4		<0.020
	Apr-17	8.34	333	0.72	6.7	76			15.5	1.03	2.23		9.05		<0.020
907	2001	8.10	313		<5	77			15.6	1	3.10		9		
	Apr-02	8.20	328		<5	72			14.1	1	2.30		9		
	Apr-03	8.30	312		6	73			13.5	2	1.90		9		
	Apr-04	8.20	294	0.44	7.5	71			13.7	2	2.20		9		
	Apr-05	8.30	315	0.70	nd	75			14.9	1	2.10		9		
	Apr-06	8.50	294	0.15	4	<10 *			<0.5 *	<2	1.80		<0.5 *		
	Apr-07	8.40	323	0.75	9	<10			1.1	<2	2.30		<0.5		
	Apr-08	8.10	326	0.55	7	70			13.5	<2	2.30		9		
	Apr-09	8.31	327	0.50	6.5	60			12.1	<2.0	1.93		7.63		<0.10
	Apr-10	8.27	333	0.15	2.8	<10			0.73	<2.0	2.44		<0.5		<0.10
	Apr-11	8.37	325	0.56	3.0	<10 *			<0.5 *	<2.0	2.34		<0.5 *		<0.10
	Apr-12	8.13	318	0.28	3.0	64			13.6	<2.0	2.27		7.24		<0.10
	Apr-14	8.37	343	0.31	5.0	<10 *			<0.50 *	<2.0	2.44		<0.50 *		<0.10
	Apr-15	8.50	348	0.22	5.4	<10 *			<0.50 *	1.98	2.37		<0.50 *		<0.020
	Apr-17	8.40	350	0.36	3.3	<10*			<0.50*	1.78	2.26		<0.050*		<0.020
908	Sep-85	8.40	451			5	212	30	1	6		0.2	1	107	
	Apr-86	8.00	356			90	169	20	18	4		0.9	11	45	
	Jun-88	7.80	414			128			26	6			15		
	Dec-88	7.90	376			92	160	22	19	4		0.8	11	45	

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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1 MAC	10 MAC	NC	5.0 AO	0.025 IMAC	1.0 MAC	0.005 MAC	0.05 MAC	1 AO	0.30 AO	0.01 MAC	NC	0.01 MAC	NC	5 AO
904	Apr-10	<0.10	<0.20	0.001	2.7											
Cont.	Apr-11	<0.10	0.35	<0.0010	2.7											
	Apr-12	<0.10	<0.2	<0.0010	1.7											
	Apr-13	<0.10	0.48	<0.0010	4.2											
	Apr-14	<0.10		<0.0010	3.4											
	Apr-15	<0.010		<0.0010	2.2											
	Apr-16	<0.010		<0.0010	5.2											
	Apr-17	<0.010		0.0011	2.5											
906	Sep-85			0.001	1.9	10.0		0.3	1.0	1.0	0.55	3.0	2.0	1.0		57.0
	Mar-87			0.001	1.1											
	Jun-87			0.001	1.4											
	Dec-88			0.001	2.6						0.66					
	Jul-89			0.001	1.4						0.53					
	Jul-91			0.001	1.0	4.0	60.0	0.1	0.5	0.7	0.31	0.1	0.2	1.0	0.1	0.2
	Apr-93			0.001	1.1											
	May-93					2.0	70.6	1.0	0.2	1.7		2.0	1.1	1.0	2.3	8.3
	Apr-95			0.001	1.2						2.04					
	Sep-95			0.001	1.5	4.8	2.0	0.6	2.0	2.0	0.22	10.0	2.0	0.4	3.0	25.0
	Apr-96			0.001	1.1						0.01					
	Jun-97			<0.001	0.6						0.06					
	Apr-98			<0.001	0.8											
	Apr-99		<0.2	<0.001	1.3											
	Apr-00			<0.001	1.2											
	Apr-01			<0.001	1.1											
	Apr-02			<0.002	0.7											
	Apr-03			<0.002	0.9											
	Apr-04			<0.002	0.7											
	Apr-05			0.001	1.2											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		0.20	<0.001	1.0											
	Apr-08		<0.2	<0.001	<1											
	Apr-09	<0.10	<0.20	<0.0010	1.8											
	Apr-10	<0.10	<0.20	<0.0010	1.8											
	Apr-11	<0.10	0.36	0.0056	2.7											
	Apr-12	<0.10	<0.2	<0.0010	1.5											
	Apr-13	<0.10	<0.2	<0.0010	1.5											
	Apr-14	<0.10		<0.0010	1.7											
	Apr-15	<0.010		<0.0010	<1.0											
	Apr-16	<0.010		0.0088	3.2											
	Apr-17	<0.010		0.0025	1.7											
907	2001			<0.001	1.6											
	Apr-02			<0.002	1.4											
	Apr-03			<0.002	1.3											
	Apr-04			0.002	1.4											
	Apr-05			0.001	1.5											
	Apr-06		<0.2	<0.001	3.0											
	Apr-07		<0.2	<0.001	2.0											
	Apr-08		<0.2	<0.001	1.0											
	Apr-09	<0.10	<0.20	<0.0010	2.5											
	Apr-10	<0.10	<0.20	<0.0010	2.6											
	Apr-11	<0.10	<0.20	<0.0010	2.1											
	Apr-12	<0.10	<0.2	<0.0010	2.0											
	Apr-14	<0.10		<0.0010	2.6											
	Apr-15	<0.010		0.0022	1.4											
	Apr-17	<0.010		0.0013	1.7											
908	Sep-85			0.001	2.5	2.0		0.3	1.0	1.0	0.56	3.0	2.0	1.0		77.0
	Apr-86			0.001	2.2	3.0		0.3	1.0	1.0	11.00	3.0	2.0	1.0		42.0
	Jun-88			0.001	1.4											
	Dec-88			0.001	2.3						0.25					

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Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility

Monitor	Date	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Sulphate	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate
			µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS	6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	
908	Jul-89	8.10	390			102	168	23	22	7		1.0	11	53	
Cont.	Jan-91	8.20	341			77	157		16	2			9		
	Jul-91	8.20	331			60	148	16	13	2		0.9	7	48	
	Sep-92	8.20	334			74	163	15	16	2		0.8	9	55	
	Apr-93	8.20	334			74	164	18	16	3		0.7	8	53	
	Apr-93	8.30				74	164		15	2			9		
	May-93														
	Nov-94	8.20	332			74	155	16	15	2		0.8	9	54	
	Apr-95	8.20	335			76		17	16	2		0.8	9	51	
	Sep-95	8.20	332			70	166	16	15			0.9	8	52	
	Apr-96	8.20	335			69	163	16	14	2		0.9	8	54	
	Jun-97	8.30	333	3.7	7	79			16	2	2.40		9		
	Apr-98	8.30	288	0.9	<5	68			14	2	2.50		8		
	Apr-99	8.60	318	2.4	<5	72			14	1	2.50		9		
	Apr-00	7.40	335	1.28	<5	74			15	1	2.70		9		
	Apr-01	8.00	272	0.53	<5	85			18	1	2.70		10		
	Apr-02	8.00	371	0.12	<5	96			19	3	2.20		12		
	Apr-03	8.10	321	<0.1	<5	83			16	2	2.10		10		
	Apr-04	8.20	316	0.12	<2.5	0			<0.05	2	2.10		0		
	Apr-05	8.10	324	0.40	nd	86			17	1	1.90		11		
	Apr-06	8.10	266	0.10	<1	100			20	<2	1.40		13		
Apr-07	8.10	305	0.15	6	90			18	<2	2.10		11			
Apr-08	8.20	323	0.15	3	90			17	<2	2.10		11			
Apr-09	8.08	341	0.10	3	90			15.2	2.5	1.68		12		<0.10	
Apr-10	8.25	326	<0.10	2.9	108			26.7	<2.0	2.28		9.95		<0.10	
Apr-11	8.22	324	0.19	3.3	89			17.5	<2.0	2.27		11.10		<0.10	
Apr-12	7.85	324	0.15	3.8	68			14.5	<2.0	2.16		7.82		<0.10	
Apr-13	8.26	278	0.18	5.0	77			15.3	<2.0	2.29		9.29		<0.10	
Apr-14	8.25	326	0.25	2.8	88			19.7	<2.0	2.19		9.48		<0.10	
Apr-15	8.07	321	0.59	3.6	84			19.3	1.39	2.15		8.82		0.177	
Apr-16	8.32	324	0.41	3.4	<10 *			<0.50 *	1.42	2.29		<0.50 *		<0.020	
Apr-17	8.32	336	0.29	4.2	<10*			<0.50*	1.22	2.14		<0.050*		<0.020	
909	Sep-85	7.80	426			190	215	9	36	1		1.1	24	16	
	Apr-93	7.90	426			196	224	14	37	1		1.1	25	17	
	May-93														
	Nov-94	7.80	418			207	226	11	39	1		1.4	27	17	
	Apr-95	8.10	423			198		10	37	1		1.2	26	17	
	Sep-95	7.90	415			197	228	12	37	1		1.3	26	17	
	Apr-96	7.90	422			197	232	11	36	0		1.3	26	16	
	Jun-97	7.90	418	1.7	9	214			39	1	1.00		28		
	Apr-98	8.40	338	0.30	<5	195			36	1	1.10		25		
	Apr-99	8.60	400	1.64	<5	194			36	1	1.10		25		
	Apr-00	7.90	416	0.87	<5	191			36	1	1.10		25		
	Apr-01	8.00	402	0.32	<5	206			39	1	1.10		26		
	Apr-02	8.10	418	0.32	<5	199			37	1	1.00		26		
	Apr-03	8.10	411	1.64	<5	212			39	1	0.90		28		
	Apr-04	8.10	402	0.31	<2.5	200			37	2	1.10		26		
	Apr-05	8.20	408	2.6	nd	209			39	1	0.90		27		
	Apr-06	7.90	346	0.60	<1	190			31	<2	0.70		28		
	Apr-07	7.90	390	0.70	<1	200			36	<2	1.00		26		
	Apr-08	8.20	446	0.85	2	220			39	<2	1.00		29		
	Apr-09	8.19	405	0.29	1.3	200			33	<2.0	0.79		29		<0.10
Apr-10	8.16	415	0.80	<1.0	209			42.9	<2.0	1.02		24.8		<0.10	
Apr-11	8.10	408	0.69	<1.0	208			39.8	<2.0	1.00		26.5		<0.10	
Apr-12	8.06	406	0.35	2.3	182			37.1	<2.0	0.96		21.7		<0.10	
Apr-13	8.18	390	0.41	3.9	<10 *			<0.50 *	<2.0	1.02		<0.50 *		0.17	
Apr-14	8.15	430	0.10	1.4	<10 *			<0.50 *	<2.0	1.05		<0.50 *		<0.10	
Apr-15	8.33	519	1.73	8.5	<10 *			<0.50 *	5.68	0.562		<0.50 *		12.6	
Apr-16	8.13	415	0.50	1.8	195			38.1	0.93	1.03		24.3		<0.020	
Apr-17	8.28	423	0.61	<2.0	198			39.4	0.90	0.966		24.2		<0.020	

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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1	10	NC	5.0	0.025	1.0	0.005	0.05	1	0.30	0.01	NC	0.01	NC	5
		MAC	MAC		AO	IMAC	MAC	MAC	MAC	AO	AO	MAC		MAC		AO
908	Jul-89			0.001	1.4						0.23					
Cont.	Jan-91			0.001	1.4						0.22					
	Jul-91			0.001	2.4	3.4	51.0	0.1	0.5	1.8	0.22	0.2	0.2	1.0	0.1	33.0
	Sep-92			0.001	1.5						0.26					
	Apr-93			0.001	2.2						0.15					
	Apr-93										0.02					
	May-93					2.0	89.3	1.6	0.2	4.3		5.0	4.2	1.0	4.1	0.2
	Nov-94			0.004	1.2						0.03					
	Apr-95			0.001	1.7						0.18					
	Sep-95			0.001	2.0	1.9	61.0	0.6	2.0	2.0	0.16	1.0	2.0	0.4	3.0	32.0
	Apr-96			0.001	1.6						0.21					
	Jun-97			<0.001	1.1						0.26					
	Apr-98			<0.001	1.3											
	Apr-99		<0.2	<0.001	1.5											
	Apr-00			0.002	9.2											
	Apr-01			<0.001	1.1											
	Apr-02			<0.002	0.9											
	Apr-03			<0.002	1.1											
	Apr-04			<0.002	1.2											
	Apr-05			nd	1.7											
	Apr-06		0.20	<0.001	2.0											
	Apr-07		0.20	<0.001	1.0											
	Apr-08		<0.2	<0.001	1.0											
	Apr-09	<0.10	<0.2	<0.0010	2.4											
	Apr-10	<0.10	<0.2	<0.0010	2.1											
	Apr-11	<0.10	<0.2	0.0075	1.8											
	Apr-12	<0.10	<0.2	<0.0010	2.0											
	Apr-13	<0.10	<0.2	<0.0010	1.9											
	Apr-14	<0.10	<0.2	<0.0010	1.9											
	Apr-15	<0.010		0.0031	<1.0											
	Apr-16	<0.010		0.0014	3.5											
	Apr-17	<0.010		<0.0010	1.4											
909	Sep-85			0.001	1.4	12.0		1.0	1.0	1.0	0.64	3.0	2.0	1.0		230.0
	Apr-93			0.001	0.2											
	May-93					13.3	164.0	1.3	0.2	2.1		2.0	1.5	1.0	2.3	118.9
	Nov-94			0.001	0.8						0.30					
	Apr-95			0.001	0.5						0.14					
	Sep-95			0.001	1.1	10.4	208.0	0.6	2.0	5.0	0.21	10.0	2.0	0.4	3.0	81.0
	Apr-96			0.001	0.7						0.21					
	Jun-97			<0.001	2.4						0.11					
	Apr-98			<0.001	<0.5											
	Apr-99		<0.2	<0.001	0.5											
	Apr-00			<0.001	<0.5											
	Apr-01			<0.001	<0.5											
	Apr-02			<0.002	0.5											
	Apr-03			<0.002	<0.5											
	Apr-04			0.002	0.5											
	Apr-05			nd	0.7											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	<1											
	Apr-08		<0.2	<0.001	<1											
	Apr-09	<0.10	<0.2	<0.0010	<1.0											
	Apr-10	<0.10	<0.2	<0.0010	1.1											
	Apr-11	<0.10	<0.2	0.0079	1.3											
	Apr-12	<0.10	<0.2	<0.0010	1.2											
	Apr-13	<0.10	<0.2	<0.0010	1.2											
	Apr-14	<0.10	<0.2	<0.0010	1.0											
	Apr-15	0.169		0.0010	2.4											
	Apr-16	<0.010		0.0026	2.4											
	Apr-17	<0.010		0.0011	<1.0											

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · MAC - Maximum Acceptable Concentration · AO - Aesthetic Objective · NC - No criteria
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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Sulphate	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate
			µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS	6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	
911	Sep-85	7.80	479			185	211	34	42	7		0.9	20	30	
	Apr-86	7.40	448			175	368	36	38	55		1.0	19	29	
	Dec-86	7.70				199	208	34	43	8		1.1	23	30	
	Jun-88	7.80	350			93			20	6			10		
	Dec-88	7.80	398			118	180	20	26	4		0.9	13	40	
	Jul-89	7.90	425			143	194	24	33	6		1.0	15	44	
	Feb-91	7.90	445				196		34	7			17		
	Jul-91	7.80	482			182	197	43	41	8		1.1	19	28	
	Sep-92	7.90	470			182	202	35	41	8		1.0	20	36	
	Apr-93	7.90	445			161	207	30	36	6		1.0	17	41	
	May-93														
	Nov-94	8.10	372			94	170	22	19	6		1.0	11	54	
	Apr-95	8.20	381			92		21	19	5		0.9	11	52	
	Sep-95	8.10	367			93	170	16	20	4		0.9	11	50	
	Jun-97	8.20	418	1.1	12	143			31	6	2.00		16		
	Apr-98	8.30	365	0.4	<5	155			34	6	1.90		17		
	Apr-99	8.60	370	2.5	6	113			24	4	2.20		13		
	Apr-00	8.00	417	4.4	<5	129			29	4	2.00		14		
	Apr-01	7.90	341	5.1	<5	148			33	6	2.40		16		
	Apr-02	8.10	434	6.6	<5	148			32	5	1.90		17		
	Apr-03	8.10	430	12.9	<5	160			34	7	1.50		18		
	Apr-04	8.00	422	5.5	4	163			35	7	1.90		18		
	Apr-05	8.20	446	4.7	nd	172			37	8	1.70		19		
	Apr-06	8.10	324	0.4	6	110			23	4	1.60		13		
	Apr-07	8.00	350	1.4	21	120			27	4	2.20		12		
	Apr-08	8.30	350	0.18	6	100			20	5	2.30		12		
	Apr-09	8.32	355	3.0	15.5	90			17.5	4.4	1.20		11.1		0.22
	Apr-10	8.28	350	1.5	6.0	95			21.6	3.9	2.36		10.0		<0.10
	Apr-11	8.21	363	0.11	5.5	86			18.9	5.2	2.26		9.42		0.19
	Apr-12	8.20	366	0.74	4.9	82			17.7	5.6	2.20		9.25		<0.10
	Apr-13	8.24	321	1.52	5.7	124			30.8	6.2	2.26		11.40		<0.10
	Apr-14	8.20	381	0.22	6.1	<10 *			<0.50 *	5.9	2.23		<0.50 *		0.24
	Apr-15	8.42	383	0.57	6.6	<10 *			<0.50 *	6.02	2.24		<0.50 *		0.266
	Apr-16	8.20	378	0.50	5.4	93			19.1	6.40	2.18		11.0		0.249
	Apr-17	8.31	387	0.31	5.6	22			3.75	6.10	2.10		3.12		0.238
912	Apr-86	7.90	431			18	402	16	3	3		0.4	3	96	
	Dec-88	7.80	441			186	209	20	37	3		1.1	23	19	
	Feb-90	7.90	426			183	214	19	33	1		1.1	24	22	
	Jan-91	7.90	425			179	212		33	1			23		
	Jul-91	7.90	429			183	205	21	34	1		1.3	24	17	
	Sep-92	7.80	451			203	218	19	40	5		1.2	25	24	
	May-93	7.80	455			193	244	20	27	5		1.2	30	30	
	May-94														
	Nov-94	7.90	429			201	216	21	36	1		1.2	27	23	
	Apr-95	8.00	477			10		21	1	3		1.2	2	117	
	Sep-95	7.80	425			192	223	21	35	1		1.2	26	23	
	Apr-96	7.50	697			309	251	21	76	32		1.0	29	23	
	Jun-97	8.00	439	0.2	5	198			37	3	0.90		25		
	Apr-98	8.30	359	0.2	<5	196			38	2	1.00		25		
	Apr-99	8.60	424	0.28	<5	197			38	2	1.00		25		
	Apr-00	7.80	458	0.50	<5	195			39	3	1.00		24		
	Apr-01	7.90	408	2.84	<5	207			40	1	1.40		26		
	Apr-02	8.00	436	6.35	<5	200			37	1	1.00		26		
	Apr-03	8.10	419	5.31	<5	209			37	2	0.80		28		
	Apr-04	7.90	413	4.11	2.5	201			37	3	1.10		27		
	Apr-05	8.20	425	1.1	nd	209			40	2	0.90		27		
	Apr-06	8.10	354	3.0	6	190			33	<2	0.70		27		
	Apr-07	8.00	415	1.8	11	200			38	<2	0.90		26		
	Apr-08	8.20	425	0.71	4	210			38	<2	0.90		29		
	Apr-09	8.23	417	3.70	5.6	180			30.8	<2.0	0.73		23.9		<0.10

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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1	10	NC	5.0	0.025	1.0	0.005	0.05	1	0.30	0.01	NC	0.01	NC	5
		MAC	MAC		AO	IMAC	MAC	MAC	MAC	AO	AO	MAC		MAC		AO
911	Sep-85			0.001	2.9						1.76					
	Apr-86			0.001	1.3	2.0		0.3	1.0	1.0	0.76	3.0	2.0	1.0		10.0
	Dec-86			0.000	1.4	3.0		1.0	1.0	19.0	3.20	3.0	2.0	1.0		24.0
	Jun-88			0.001	1.6											
	Dec-88			0.001	2.2						0.75					
	Jul-89			0.001	2.1						0.58					
	Feb-91			0.001	1.5											
	Jul-91			0.001	1.3	2.6	65.0	0.1	0.5	3.5	1.11	0.3	0.2	1.0		16.0
	Sep-92			0.001	1.3						0.56					
	Apr-93			0.001	1.5	3.5	53.7	0.7	0.2	44.8	0.62	5.0	1.2	1.0	1.2	20.1
	May-93										0.57					
	Nov-94			0.005	1.6						0.16					
	Apr-95			0.001	1.9	2.4	35.0	0.6	2.0	7.0	0.44	10.0	2.0	0.4	3.0	30.0
	Sep-95			0.002	2.0						0.51					
	Jun-97			<0.001	1.5											
	Apr-98			<0.001	1.2											
	Apr-99			<0.2	<0.001	1.8										
	Apr-00			<0.001	1.7											
	Apr-01			<0.001	1.6											
	Apr-02			<0.002	1.5											
	Apr-03			<0.002	1.3											
	Apr-04			0.002	1.5											
	Apr-05			nd	1.8											
	Apr-06			0.40	<0.001	2.0										
	Apr-07			<0.2	<0.001	2.0										
Apr-08			<0.2	<0.001	1.0											
Apr-09	<0.10	0.22	<0.0010	3.3												
Apr-10	<0.10	<0.2	<0.0010	1.9												
Apr-11	<0.10	<0.2	0.003	3.4												
Apr-12	<0.10	<0.2	<0.0010	2.5												
Apr-13	<0.10	<0.2	<0.0010	3.5												
Apr-14	<0.10		<0.0010	2.1												
Apr-15	<0.010		0.0021	1.3												
Apr-16	<0.010		0.0259	3.9												
Apr-17	<0.010		0.0014	1.5												
912	Apr-86			0.001	0.7						0.11					
	Dec-88			0.001	1.4						0.34					
	Feb-90			0.001	0.2						1.90					
	Jan-91			0.001	0.6						0.35					
	Jul-91			0.001	0.6	8.6	72.0	0.1	0.5	1.3	0.19	0.1	0.6	1.0	0.1	3.2
	Sep-92			0.001	0.7						0.25					
	May-93			0.001	0.8						0.04					
	May-94					2.6	23.8	1.4	0.2	25.1	0.02	2.0	0.2	1.0	1.4	9.4
	Nov-94			0.005	0.3						0.04					
	Apr-95			0.001	0.7						0.01					
	Sep-95			0.001	1.2	6.1	65.0	0.6	2.0	41.0	0.01	10.0	2.0	0.4	3.0	14.0
	Apr-96			0.001	1.8											
	Jun-97			<0.001	0.5											
	Apr-98			<0.001	<0.5											
	Apr-99			<0.2	<0.001	0.6										
	Apr-00			<0.001	0.5											
	Apr-01			<0.001	0.5											
Apr-02			<0.002	0.6												
Apr-03			<0.002	0.5												
Apr-04			0.002	1.5												
Apr-05			nd	1.9												
Apr-06			<0.2	<0.001	2.0											
Apr-07			<0.2	<0.001	10.0											
Apr-08			<0.2	<0.001	2.0											
Apr-09	<0.10	<0.2	<0.0010	1.3												

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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Sulphate	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate
			µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS	6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	
912	Apr-10	8.22	423	0.74	3.5	186			35.5	<2.0	0.97		23.8		<0.10
Cont.	Apr-11	8.12	422	3.50	<1.0	201			38.6	<2.0	0.97		25.4		<0.10
	Apr-13	8.17	343	6.28	2.3	190			36.3	<2.0	0.95		24.1		<0.10
	Apr-14	8.11	433	1.52	1.9	230			52.2	<2.0	0.98		24.1		<0.10
	Apr-16	8.23	450	0.24	1.8	<10 *			<0.50 *	2.07	0.994		<0.50 *		<0.020
	Apr-17	8.44	474	0.45	<2.0	<10*			<0.50*	2.21	0.948		<0.050*		<0.020
	913	Mar-87	7.30	590			298	274	30	80	46		1.7	24	34
	Feb-89	7.60	602			261	272	45	51	12		1.2	33	21	
	Feb-90	7.60	641			291	298		61	10			34		
	Jul-91	7.80	597			274	276	49	51	6		1.5	35	18	
	Sep-92	7.30	910			371	420	51	94	30		3.9	33	29	
	Apr-93	7.40	783			387	376	36	120	23		2.7	21	24	
	May-93														
	Nov-94	8.10	610			323	297	44	59	5		1.8	43	23	
	Apr-95	7.70	990			1		38		39				7	
	Sep-95	7.70	569			261	280	36	51	9		1.6	33	23	
	Jun-97	8.40	844	0.1	9	3			1	8	0.80				
	Apr-98	8.40	599	0.1	<5	2				15	0.60				
	Apr-99	8.10	741	0.22	<5	1				39	0.80				
	Apr-00	7.80	634	1.01	<5	1				16	0.80				
	Apr-01	7.90	334	0.49	<5	2				1	3.00				
	Apr-02	8.30	360	0.36	<5	0			<0.05	1	2.40		<0.02		
	Apr-03	8.30	338	1.29	13	86			16	2	1.70		11		
	Apr-04	8.10	325	0.76	6	67			17	2	2.30		11		
	Apr-05	8.20	335	1.6	nd	100			20	1	2.00		12		
	Apr-06	8.20	288	0.2	6	80			15	<2	1.70		10		
	Apr-07	8.10	324	0.90	16	100			21	<2	2.30		11		
	Apr-08	8.30	333	0.71	9	90				<2	2.20		12		
	Apr-09	8.20	353	0.55	8.2	80			15.5	<2.0	1.68		10.3		<0.10
	Apr-10	8.11	344	0.45	3.5	99			22.2	<2.0	2.32		10.7		<0.10
	Apr-11	8.26	334	0.55	3.9	87			17.3	<2.0	2.29		10.7		<0.10
	Apr-12	8.10	335	0.58	4.5	74			15.5	<2.0	2.22		8.67		<0.10
	Apr-13	8.22	295	0.43	7.2	83			16.5	<2.0	2.43		10.1		<0.10
	Apr-14	8.26	337	0.26	5.6	93			20.5	<2.0	2.37		10.2		<0.10
	Apr-16	8.27	343	0.80	7.5	77			15.2	1.69	2.41		9.46		<0.020
	Apr-17	8.33	352	0.80	6.3	82			16.9	1.48	2.29		9.77		<0.020
916	Dec-88	7.80	496			186	234	18	29	8		1.2	28	30	
	Jul-89	7.90	454			172	228	16	27	6		1.1	26	29	
	Feb-91		450			169	231		24	6			26		
	Jul-91	8.00	463			182	218	22	27	6		1.2	28	34	
	Sep-92	7.90	500			227	249	24	31	8		1.3	36	33	
	Apr-93	8.10	490			204	248	24	30	7		1.1	31	32	
	May-94														
	Nov-94	8.00	492			219	268	28	30	7		1.1	35	33	
	Apr-95	8.00	505			220		26	31	6		1.2	34	32	
	Sep-95	8.00	507			210	252	27	31	8		1.3	32	32	
	Jun-97	8.40	508	0.6	7	152			22	8	1.00		24		
	Apr-98	8.40	396	1.3	<5	200			30	6	1.10		30		
	Apr-99	8.60	506	2.0	<5	221			33	9	1.00		34		
	Apr-00	8.00	560	3.3	<5	248			38	10	1.00		38		
	Apr-01	7.80	481	2.3	<5	229			35	9	1.40		34		
	Apr-02	8.10	537	3.9	<5	230			34	9	1.00		35		
	Apr-03	8.20	554	4.5	<5	268			39	12	0.80		42		
	Apr-04	8.10	519	4.3	<2.5	233			35	11	1.10		36		
	Apr-05	8.20	541	3.6	nd	230			35	12	0.90		35		
	Apr-06	7.60	422	3.8	<1	200			27	9	0.70		31		
	Apr-07	7.90	475	2.9	<1	210			33	11	1.00		32		
	Apr-08	8.10	512	9.1	17	240			37	12	0.90		36		
	Apr-09	8.25	615	8.9	19.1	<10 *			0.7 *	17.3	0.75		<0.50 *		<0.10

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Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L	
		1 MAC	10 MAC	NC	5.0 AO	0.025 IMAC	1.0 MAC	0.005 MAC	0.05 MAC	1 AO	0.30 AO	0.01 MAC	NC	0.01 MAC	NC	5 AO	
912	Apr-10	<0.10	<0.2	<0.0010	1.4												
Cont.	Apr-11	<0.10	<0.2	<0.0010	1.0												
	Apr-13	<0.10	<0.2	<0.0010	1.1												
	Apr-14	<0.10		<0.0010	1.1												
	Apr-16	<0.010		0.0053	2.5												
	Apr-17	<0.010		0.0026	<1.0												
913	Mar-87			0.001	1.5						0.02						
	Feb-89			0.001	0.8						0.02						
	Feb-90			0.001	1.0						0.01						
	Jul-91			0.001	0.9	8.8	120.0	0.1	0.5	2.4	0.04	1.6	0.3	1.0	0.1	170.0	
	Sep-92			0.001	2.7						0.04						
	Apr-93			0.001	2.1												
	May-93					2.0	66.4	1.2	0.2	13.8		13.0	0.2	1.0	3.1	700.2	
	Nov-94			0.002	0.5						0.08						
	Apr-95			0.001	2.9						0.04						
	Sep-95			0.001	1.3	4.8	105.0	0.6	2.0	2.0	0.05	10.0	2.0	0.4	3.0	206.0	
	Jun-97			<0.001	0.5						0.02						
	Apr-98			<0.001	1.0												
	Apr-99		<0.2	<0.001	1.0												
	Apr-00			<0.001	0.9												
	Apr-01			<0.001	1.5												
	Apr-02			<0.002	1.4												
	Apr-03			<0.002	1.3												
	Apr-04			0.002	1.5												
	Apr-05			0.0001	1.6												
	Apr-06		<0.2	<0.001	2.0												
	Apr-07		<0.2	<0.001	2.0												
	Apr-08		<0.2	<0.001	<1												
	Apr-09	<0.10	<0.2	0.088	3.6												
	Apr-10	<0.10	<0.2	<0.001	2.4												
	Apr-11	<0.10	<0.2	0.0048	2.3												
	Apr-12	<0.10	<0.2	<0.0010	2.4												
	Apr-13	<0.10	<0.2	<0.0010	1.8												
	Apr-14	<0.10		<0.0010	2.5												
	Apr-16	<0.010		0.0083	3.7												
	Apr-17	<0.010		0.0013	1.4												
916	Dec-88			0.001	1.5						0.22						
	Jul-89			0.001	0.7						0.12						
	Feb-91			0.001	0.8						0.46						
	Jul-91			0.001	0.7	9.9	180.0	0.1	0.5	0.6	0.53	0.2	0.5	1.0	0.1	0.2	
	Sep-92			0.001	0.6						0.37						
	Apr-93			0.001	0.5						0.30						
	May-94					12.8	177.0	1.4	0.2	1.5	0.26	2.0	0.7	1.0	1.5	4.2	
	Nov-94			0.001	0.8						0.01						
	Apr-95			0.001	0.9						0.23						
	Sep-95			0.001	0.7						0.27						
	Jun-97			<0.001	0.5												
	Apr-98			<0.001	0.5												
	Apr-99		<0.2	<0.001	0.5												
	Apr-00		<0.2	<0.001	0.7												
	Apr-01			<0.001	0.7												
	Apr-02			<0.002	0.7												
	Apr-03			<0.002	0.6												
	Apr-04			0.002	0.8												
	Apr-05			nd	0.9												
	Apr-06		<0.2	<0.001	1.0												
	Apr-07		<0.2	<0.001	1.0												
	Apr-08		<0.2	<0.001	<1												
	Apr-09	<0.10	<0.2	<0.0010	1.7												

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · MAC - Maximum Acceptable Concentration · AO - Aesthetic Objective · NC - No criteria
· * - indicates anomalous data, water likely softened · IMAC - Interim Maximum Acceptable Concentration · OG - Operational Guideline



**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Sulphate mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L
ODWQS	6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	
916 Cont.	Apr-10	8.25	635	0.10	4.0	33 *			12.3 *	19.2	0.85		0.62 *		<0.10
	Apr-11	8.16	616	<0.1	<1	<10 *			1.17 *	18	0.90		<0.50 *		<0.10
	Apr-12	8.11	595	0.13	1.4	<10 *			<0.50 *	15.9	0.87		<0.50 *		<0.10
	Apr-13	8.23	572	0.40	2.1	<10 *			<0.50 *	15.6	0.97		<0.50 *		<0.10
	Apr-14	8.09	611	<0.10	1.8	<10 *			<0.50 *	17.4	0.95		<0.50 *		<0.10
	Apr-15	8.37	682	0.16	1.8	<10 *			<0.50 *	23.5	0.863		<0.50 *		<0.020
	Apr-16	8.23	647	0.51	2.6	<10 *			<0.50 *	22.0	0.871		<0.50 *		<0.020
	Apr-17	8.39	546	0.20	<2.0	<10*			<0.50*	12.4	1.03		<0.050*		<0.020
917	Dec-86	8.10	404			111		23	21	8		1.0	14	50	
	Feb-87	7.90	407			98	177		18	8			13		
	Jun-88	8.00	385			93		22	18	5		0.8	12	47	
	Dec-88	8.00	406			116	165	26	22	8		1.1	15	47	
	Jul-89	7.90	414			118	180	26	22	8		0.9	15	43	
	Feb-90	8.10	402			110	178		21	7			14		
	Jan-91	8.00	415			117	178	29	22	8		1.0	15	39	
	Jul-91	8.10	391			110	175	20	21	6		1.0	14	49	
	Sep-92	8.10	407			120	174	24	24	7		0.9	15	50	
	Apr-93						189								
	May-93	8.10	390			113		23	22	6		0.9	15	50	
	Nov-94	8.20	400			112	178	23	21	5		0.8	15	47	
	Apr-95	8.10	381			110		21	21	5		1.0	14	47	
	Sep-95	8.10	404			115	186	22	21	6		0.9	15	46	
	Apr-96	8.10	391	0.58	6.5	110	193		21	6	2.30		14		
	Jun-97	8.40	376	0.4	<5	110			21	5	2.20		14		
	Apr-98	8.30	335	0.4	<5	116			22	6	2.10		15		
	Apr-99	8.00	370	0.98	<5	108			20	5	2.20		14		
	Apr-00	8.10	370	0.34	<5	106			21	4	2.40		13		
	Apr-01	8.00	304	0.35	<5	111			21	4	2.80		14		
	Apr-02	8.10	379	0.22	<5	106			20	4	2.30		14		
	Apr-03	8.20	351	0.27	<5	106			20	4	1.90		14		
	Apr-04	8.10	393	0.48	3.5	114			21	8	2.10		15		
	Apr-05	8.20	386	0.50	nd	116			22	6	2.10		15		
	Apr-06	8.10	315	0.45	8	110			20	4	1.60		14		
	Apr-07	8.10	360	0.25	11	130			26	5	2.10		15		
	Apr-08	8.20	379	0.31	9	120			22	5	2.10		16		
	Apr-09	8.15	393	0.25	6.7	100			17.7	5.7	1.62		12.5		<0.10
	Apr-10	8.59	401	0.13	4.4	69			25.6	5.4	2.26		1.37		<0.10
Apr-11	8.28	393	<0.10	5.7	<10 *			0.9 *	5.5	2.20		<0.5 *		<0.10	
Apr-12	8.10	383	0.30	3.7	98			20.4	5.4	2.05		11.4		<0.10	
Apr-13	8.26	285	0.40	8.4	78			15.7	2.4	2.53		9.44		<0.10	
Apr-14	8.19	393	0.29	5.6	121			25.5	5.6	2.17		14.0		<0.10	
Apr-15	8.32	413	0.52	5.3	134			27.9	6.95	2.05		15.5		0.020	
Apr-16	8.28	361	0.51	7.3	82			16.0	3.68	2.43		10.1		<0.020	
Apr-17	8.39	366	0.28	4.5	<10*			<0.50*	3.03	2.31		<0.050*		<0.020	
918	Jun-87	8.10	396	7.8	<5	151			30	2	1.50		19		
	Apr-98	8.10	333	15.6	<5	152			30	3	1.50		19		
	Apr-99	8.60	379	13.3	<5	154			30	1	1.60		19		
	Apr-00	8.10	411	3.5	<5	146			29	1	1.80		18		
	Apr-01	7.90	368	4.8		159			32	1	2.00		19		
	Apr-02	8.10	401	11.2	<5	161			32	1	1.60		20		
	Apr-03	8.10	382	15.8	91	169			32	2	1.30		22		
	Apr-04	8.10	397	25.0	59	160			31	2	1.50		20		
	Apr-05	8.20	390	8.9	nd	170			34	1	1.30		21		
	Apr-06	8.10	337	14.0	10	150			27	5	1.10		20		
	Apr-07	7.80	377	3.9	28	160			30	<2	1.40		21		
	Apr-08	8.20	394	1.0	56	170			33	<2	1.40		21		
Apr-09	8.15	393	<0.10	3.2	140			27.8	<2.0	1.18		17.6		<0.10	
Apr-10	8.13	397	1.62	3.9	179			39.9	<2.0	1.45		19.3		<0.10	
Apr-11	8.02	392	<0.10	4.2	169			34.6	<2.0	1.49		20.2		<0.10	

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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1 MAC	10 MAC	NC	5.0 AO	0.025 IMAC	1.0 MAC	0.005 MAC	0.05 MAC	1 AO	0.30 AO	0.01 MAC	NC	0.01 MAC	NC	5 AO
916	Apr-10	<0.10	<0.2	<0.0010	1.1											
Cont.	Apr-11	<0.10	<0.2	<0.0010	1.6											
	Apr-12	<0.10	<0.2	<0.0010	1.4											
	Apr-13	<0.10	<0.2	<0.0010	1.0											
	Apr-14	<0.10	<0.2	<0.0010	1.7											
	Apr-15	<0.010	<0.2	0.0036	<1.0											
	Apr-16	<0.010	<0.2	0.0067	3.0											
	Apr-17	<0.010	<0.2	0.0023	<1.0											
917	Dec-86			0.001	1.5	3.0		3.0	1.0	1.0		3.0	2.0	1.0		10.0
	Feb-87			0.001	1.5						0.22					
	Jun-88			0.001												
	Dec-88			0.001	1.6						0.42					
	Jul-89			0.001	1.1						0.32					
	Feb-90			0.001	1.6						0.22					
	Jan-91			0.001	1.4						0.22					
	Jul-91			0.001	1.6	2.6		0.1	0.5	0.6	0.21	0.1	0.3	1.0	0.1	6.9
	Sep-92			0.001	1.4						0.33					
	Apr-93										0.19					
	May-93			0.005	1.4	2.9	50.5	0.6	0.2	1.6	0.18	6.0	0.9	1.0	1.2	37.6
	Nov-94			0.001	1.6						0.16					
	Apr-95			0.001	1.7						0.17					
	Sep-95			0.001	1.6	2.5	49.0	0.6	2.0	2.0	0.14	1.0	2.0	0.4	3.0	19.0
	Apr-96			<0.001							0.18					
	Jun-97			<0.001	1.2											
	Apr-98			<0.001	1.0											
	Apr-99		<0.2	<0.001	1.4											
	Apr-00		<0.2	<0.001	1.2											
	Apr-01			<0.001	1.7											
	Apr-02			<0.002	1.8											
	Apr-03			<0.002	1.6											
	Apr-04			0.002	1.1											
	Apr-05			nd	1.8											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	3.0											
	Apr-08		<0.2	<0.001	1.0											
	Apr-09	<0.10	<0.2	<0.0010	1.9											
	Apr-10	<0.10	<0.2	<0.0010	2.2											
	Apr-11	<0.10	<0.2	<0.001	2.5											
	Apr-12	<0.10	<0.2	<0.001	3.0											
	Apr-13	<0.10	<0.2	<0.001	2.1											
	Apr-14	<0.10	<0.2	<0.0010	2.2											
	Apr-15	<0.010	<0.2	0.0015	<1.0											
	Apr-16	<0.010	<0.2	<0.0010	4.1											
	Apr-17	<0.010	<0.2	0.0012	1.8											
918	Jun-87			<0.001	0.8											
	Apr-98			<0.001	0.9											
	Apr-99		<0.2	<0.001	1.1											
	Apr-00		<0.2	<0.001	1.5											
	Apr-01			<0.001	1.6											
	Apr-02			<0.002	1.0											
	Apr-03			<0.002	1.0											
	Apr-04			0.002	1.4											
	Apr-05			0.001	1.4											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	1.0											
	Apr-08		<0.2	<0.001	1.0											
	Apr-09	<0.10	<0.2	<0.0010	1.9											
	Apr-10	<0.10	<0.2	<0.0010	2.8											
	Apr-11	<0.10	<0.2	<0.0010	2.0											

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· MAC - Maximum Acceptable Concentration
· IMAC - Interim Maximum Acceptable Concentration

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**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity µS/cm	Turbidity NTU	Colour TCU	Hardness mg/L	Alkalinity mg/L	Sulphate mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Potassium mg/L	Magnesium mg/L	Sodium mg/L	Nitrate mg/L
		6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC
918	Apr-12	7.88	392	0.14	5.3	147			31.4	<2.0	1.38		16.6		0.87
Cont.	Apr-13	7.95	315	0.49	4.2	162			33.2	<2.0	1.44		19.3		0.27
	Apr-14	7.73	399	0.35	4.7	196			46.7	<2.0	1.30		19.2		1.89
	Apr-15	8.22	401	0.70	4.7	202			48.0	1.72	1.42		19.8		0.025
	Apr-17	8.25	410	1.54	4.9	164			34.1	1.82	1.33		19.2		<0.020
	920	Feb-90	7.90	347			109	173	10	19	1		1.0	15	32
	Feb-91	8.10	342			106	170		18	1			15		
	Feb-91	8.10	342			108	175		19	1			15		
	Jul-91														
	Sep-92	8.20				124	187	8	19	1		1.0	19	39	
	Sep-92	8.20	342			123	187		21	1			17		
	Apr-96	8.10	347			113	188	7	19	1		1.0	16	35	
	Jun-97	8.30	333	0.4	11	113			20	1	1.80		15		
	Apr-98	8.30	296	5.0	<5	109			19	1	1.80		15		
	Apr-99	8.00	319	5.57	<5	108			19	1	1.90		15		
	Apr-00	7.90	332	2.16	<5	113			21	1	1.90		15		
	Apr-01	7.90	274	4.03	<5	115			21	1	2.20		15		
	Apr-02	8.10	335	6.12	<5	111			19	1	1.80		15		
	Apr-03	8.20	327	0.69	<5	118			21	1	1.70		16		
	Apr-04	8.10	305	4.24	2.8	113			20	2	1.50		15		
	Apr-05	8.30	328	5.8	nd	116			21	1	1.70		16		
	Apr-06	8.10	284	1.1	7	110			20	<2	1.30		16		
	Apr-07	8.00	317	2.1	27	130			27	<2	1.70		16		
	Apr-08	8.10	345	<0.1	2	130			23	<2	1.70		17		
	Apr-09	8.24	320	3.7	10.4	100			17.5	<2.0	1.34		13.1		<0.10
	Apr-10	8.15	328	0.68	2.4	113			21.7	<2.0	1.81		14.3		<0.10
	Apr-11	8.23	330	1.33	5.5	112			20.5	<2.0	1.81		14.8		<0.10
	Apr-12	8.05	329	1.44	3.0	101			19.5	<2.0	1.70		12.8		0.12
	Apr-13	8.12	311	1.52	5.5	110			20.1	<2.0	1.79		14.5		<0.10
	Apr-14	8.17	338	1.64	4.5	136			30.7	<2.0	1.79		14.3		<0.10
	Apr-15	8.31	338	3.40	4.5	135			29.9	0.80	1.80		14.6		<0.020
	Apr-17	8.26	342	2.42	5.2	115			21.9	0.79	1.73		14.6		<0.020
921	Sep-92	8.10	370			79	142	51	17	1		0.8	9	59	
	Sep-92	8.10	371			78	141		17				9		
	Apr-93	7.60	358			75	144	48	16	1		0.7	8	56	
	Apr-93														
	Nov-94	7.30	352			77	132	40	16	2		0.9	9	54	
	Apr-95	8.20	362			78		43	17	2		0.7	9	53	
	Sep-95	8.20	355			75	141	43	16	1		0.9	9	53	
	Apr-96	8.00	354			71	146	39	15	1		0.8	8	50	
	Jun-97	8.30	350	0.8	11	73			15	2	2.20		8		
	Apr-98	8.20	290	0.3	<5	72			15	2	2.10		8		
	Apr-99	8.60	327	1.0	<5	68			14	1	2.20		8		
	Apr-00	8.20	354	1.0	<5	70			15	1	2.40		8		
	Apr-01	7.90	275	3.2	<5	75			16	1	2.60		9		
	Apr-02	8.20	344	1.6	<5	73			15	1	2.10		9		
	Apr-03	8.20	334	2.3	<5	73			15	2	1.90		9		
	Apr-04	8.00	321	0.6	2.8	75			15	2	2.20		9		
	Apr-06	8.30	338	1.1	nd	85			18	1	1.90		10		
	Apr-06	8.10	292	1.4	9	80			15	<2	1.50		8		
	Apr-07	7.90	323	0.6	13	80			20	<2	1.80		8		
	Apr-08	8.20	334	2.3	10	90			19	<2	2.00		10		
Apr-09	8.25	335	0.31	5.4	70			13.6	<2.0	1.59		7.94		0.11	
Apr-10	8.26	341	0.26	7.6	105			27.3	<2.0	2.12		8.91		<0.10	
Apr-11	8.23	341	0.32	4.3	83			18.2	<2.0	2.17		9.06		0.13	
Apr-12	8.13	337	0.31	4.1	67			14.8	<2.0	2.01		7.28		<0.10	
Apr-13	8.24	293	0.68	10	73			15.6	<2.0	2.13		8.33		0.10	
Apr-14	8.21	346	0.86	5.0	85			20.0	<2.0	2.09		8.61		<0.10	
Apr-15	8.36	347	0.80	6.7	83			19.8	1.41	2.18		8.21		0.106	

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · MAC - Maximum Acceptable Concentration · AO - Aesthetic Objective · NC - No criteria
· * - indicates anomalous data, water likely softened · IMAC - Interim Maximum Acceptable Concentration · OG - Operational Guideline

**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1	10	NC	5.0	0.025	1.0	0.005	0.05	1	0.30	0.01	NC	0.01	NC	5
		MAC	MAC		AO	IMAC	MAC	MAC	MAC	AO	AO	MAC		MAC		AO
918	Apr-12	<0.10	0.87	<0.0010	1.9											
Cont.	Apr-13	<0.10	0.27	<0.0010	1.7											
	Apr-14	<0.10		<0.0010	1.5											
	Apr-15	0.016		0.0020	<1.0											
	Apr-17	<0.010		<0.0010	1.4											
920	Feb-90			0.001	0.7						0.57					
	Feb-91			0.001	1.2						0.33					
	Feb-91										0.43					
	Jul-91					2.9	130.0	0.5	0.5	5.0		0.5	0.6	0.1	0.1	42.0
	Sep-92			0.001	0.9						0.88					
	Sep-92										0.37					
	Apr-96				1.1						0.24					
	Jun-97			<0.001	0.8											
	Apr-98			<0.001	0.7											
	Apr-99		<0.2	<0.001	0.9											
	Apr-00		<0.4	<0.001	0.9											
	Apr-01			<0.001	0.9											
	Apr-02			<0.002	0.9											
	Apr-03			<0.002	1.0											
	Apr-04			<0.002	0.8											
	Apr-05			0.001	1.5											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	1.0											
	Apr-08		0.30	<0.001	<1											
	Apr-09	<0.10	<0.2	<0.0010	1.8											
	Apr-10	<0.10	<0.2	0.001	1.7											
	Apr-11	<0.10	<0.2	0.0107	1.5											
	Apr-12	<0.10	<0.2	0.0010	1.8											
	Apr-13	<0.10	<0.2	<0.0010	1.5											
	Apr-14	<0.10		<0.0010	1.4											
	Apr-15	<0.010		0.0017	<1.0											
	Apr-17	<0.010		<0.0010	1.1											
921	Sep-92			0.002	1.2						0.54					
	Sep-92			0.004	1.8						2.89					
	Apr-93			0.001	1.2						0.51					
	Apr-93					2.0	42.9	0.5	0.2	33.1	0.16	2.0	7.0	1.0	0.2	446.1
	Nov-94			0.004	1.0						0.09					
	Apr-95			0.001	1.6						0.07					
	Sep-95			0.001	1.8	2.1	48.0	0.6	2.0	8.0	0.08	10.0	2.0	0.4	3.0	37.0
	Apr-96			0.001	1.6						0.19					
	Jun-97			<0.001	0.9											
	Apr-98			<0.001	1.2											
	Apr-99			<0.001	1.3											
	Apr-00			<0.001	1.2											
	Apr-01			<0.001	1.8											
	Apr-02			<0.002	1.4											
	Apr-03			<0.002	1.2											
	Apr-04			0.002	1.3											
	Apr-06			nd	1.4											
	Apr-06		0.20	<0.001	2.0											
	Apr-07		0.20	<0.001	2.0											
	Apr-08		0.20	<0.001	1.0											
	Apr-09	<0.10	<0.2	<0.0010	2.4											
	Apr-10	<0.10	<0.2	<0.0010	1.6											
	Apr-11	<0.10	<0.2	0.0079	2.3											
	Apr-12	<0.10	<0.2	<0.0010	1.8											
	Apr-13	<0.10	<0.2	<0.0010	1.9											
	Apr-14	<0.10		<0.0010	1.7											
	Apr-15	<0.010		<0.0010	1.8											

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · MAC - Maximum Acceptable Concentration · AO - Aesthetic Objective · NC - No criteria
 · * - indicates anomalous data, water likely softened · IMAC - Interim Maximum Acceptable Concentration · OG - Operational Guideline



**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Turbidity	Colour	Hardness	Alkalinity	Sulphate	Calcium	Chloride	Fluoride	Potassium	Magnesium	Sodium	Nitrate
			µS/cm	NTU	TCU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
ODWQS	6.5 - 8.5 OG	NC	5.0 AO	5 AO	80 - 100 OG	30 - 500 OG	500 AO	NC	250 AO	1.5 MAC	NC	NC	200 AO	10 MAC	
921	Apr-16	8.24	339	0.85	5.6	71			15.2	1.37	2.12		8.11		<0.020
Cont.	Apr-17	8.20	346	0.34	3.6	73			16.2	1.39	2.02		7.89		0.034
922	Jul-91	8.20	387			75	141	50	15	3		1.0	9	51	
	Sep-92	8.20	388			84	158	46	16	2		1.0	11	64	
	Apr-93	8.20	385			76	153	43	15	2		0.9	9	61	
	May-93														
	Nov-94	8.20	383			83	148	40	16	2		1.0	10	61	
	Apr-95	8.20	386			77		46	15	2		0.8	10	59	
	Sep-96	8.20	367			73	161	38	15	2		0.7	9	56	
	Apr-96	8.20	368			74	166	33	14	2		1.0	9	53	
	Jun-97	8.40	368	0.4	9	77			15	2	2.30		8		
	Apr-98	8.80	296	0.2	<5	73			15	2	2.40		9		
	Apr-99	8.60	342	0.51	10	70			14	2	2.40		9		
	Apr-00	8.20	369	0.46	<5	78			16	1	2.70		9		
	Apr-01	8.10	329	0.36	<5	80			16	1	2.80		10		
	Apr-02	8.20	361	0.45	<5	72			14	1	2.30		9		
	Apr-03	8.30	343	0.36	<5	75			14	2	2.20		10		
	Apr-04	8.00	336	0.13	<2.5	77			15	3	2.30		10		
	Apr-05	8.30	344	0.4	nd	60			16	2	2.10		10		
	Apr-06	8.20	300	0.3	7				16	<2	1.70		10		
	Apr-07	8.10	334	0.2	12	80			15	<2	2.30		10		
	Apr-08	8.30	346	0.16	6	80			17	<2	2.30		10		
	Apr-09	8.29	343	0.18	5.5	60			13.5	<2.0	1.85		7.53		<0.10
	Apr-10	8.27	349	0.14	5.5	105			26.5	<2.0	2.37		9.34		<0.10
	Apr-11	8.27	350	0.27	4.1	80			15.9	<2.0	2.38		9.70		<0.10
	Apr-12	8.14	350	0.37	8.0	70			14.7	<2.0	2.26		8.03		<0.10
	Apr-13	8.23	331	0.56	10.3	77			15.5	2.4	2.39		9.36		<0.10
	Apr-14	8.29	381	1.04	4.9	82			17.7	2.4	2.36		9.26		<0.10
	Apr-15	8.40	382	0.60	6.2	84			18.1	2.47	2.35		9.39		<0.020
	Apr-16	8.27	381	0.47	8.5	74			14.9	2.53	2.37		9.01		<0.020
	Apr-17	8.30	388	0.54	6.3	80			16.9	2.08	1.90		9.20		<0.020
923	May-97	8.50	392	2.4	9	178			33		1.00		23		
	Apr-98	8.20	318	4.1	<5	168			31		1.10		22		
	Apr-99	8.60	380	3.3	<5	168			31		1.10		22		
	Apr-00	8.10	393	3.64	<5	170			32		1.10		22		
	Apr-01	7.87	365	4.3	<5	182			35		1.30		23		
	Apr-02		401	1.35	<5	175			33		1.10		23		
	Apr-03	8.19	397	6.2	<5	189			37	3	0.90		24		
	Apr-04	8.07	396	5.59	<25	175			32	2	1.10		23		
	Apr-05	7.95	388	4.2	nd	184			34	2	0.90		24		
	Apr-06	8.00	334	2.4	<1	160			24	<2	0.70		24		
	Apr-07	7.92	375	2.1	15	190			36	<2	1.00		24		
	Apr-08	8.06	396	2.0	9	180			34	<2	1.00		24		
	Apr-09	8.21	389	12.0	5.9	230			47.9	<2.0	0.81		26.8		<0.10
Well purchased by County and removed from program															

Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003) · MAC - Maximum Acceptable Concentration · AO - Aesthetic Objective · NC - No criteria
· * - indicates anomalous data, water likely softened · IMAC - Interim Maximum Acceptable Concentration · OG - Operational Guideline

**Table D-3: Groundwater Chemical Results - Private Wells
Oxford County Waste Management Facility**

Monitor	Date	Nitrite mg/L	Nitrate & Nitrite mg/L	Phenols mg/L	DOC mg/L	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Copper ug/L	Iron mg/L	Lead ug/L	Nickel ug/L	Selenium ug/L	Sliver ug/L	Zinc ug/L
		1 MAC	10 MAC	NC	5.0 AO	0.025 IMAC	1.0 MAC	0.005 MAC	0.05 MAC	1 AO	0.30 AO	0.01 MAC	NC	0.01 MAC	NC	5 AO
921	Apr-16	<0.010		0.0142	3.3											
Cont.	Apr-17	0.442		0.0062	4.3											
922	Jul-91			0.001	2.0	0.4	51.0	0.5	0.5	0.5		0.1	0.2	1.0	0.1	0.2
	Sep-92			0.001	2.0											
	Apr-93			0.001	1.9											
	May-93					2.0	37.3	0.5	0.2	1.3		5.0	1.4	1.0	1.8	1.7
	Nov-94			0.001	1.7											
	Apr-95			0.001	2.3											
	Sep-96			0.001	2.2	6.0	49.0	0.6	2.0	2.0		10.0	2.0	0.4	3.0	21.0
	Apr-96			0.001	2.0											
	Jun-97			<0.001	1.4											
	Apr-98			<0.001	1.5											
	Apr-99		<0.2	<0.001	1.8											
	Apr-00		<0.2	0.002	1.6											
	Apr-01			<0.001	2.0											
	Apr-02			<0.002	1.5											
	Apr-03			<0.002	1.5											
	Apr-04			0.002	1.7											
	Apr-05			0.001	1.9											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	2.0											
	Apr-08		<0.2	<0.001	1.0											
	Apr-09	<0.10	<0.2	<0.0010	2.6											
	Apr-10	<0.10	<0.2	<0.0010	1.8											
	Apr-11	<0.10	<0.2	0.0113	2.8											
	Apr-12	<0.10	<0.2	<0.0010	2.6											
	Apr-13	<0.10	<0.2	<0.0010	2.8											
	Apr-14	<0.10		<0.0010	2.6											
	Apr-15	<0.010		0.0031	1.6											
	Apr-16	<0.010		0.0163	4.4											
	Apr-17	<0.010		0.0017	2.4											
923	May-97			<0.001	<0.5											
	Apr-98			<0.001	<0.5											
	Apr-99		<0.2	<0.001	<0.5											
	Apr-00		<0.2	<0.001	<0.5											
	Apr-01			<0.001												
	Apr-02			<0.002												
	Apr-03			<0.002	0.6											
	Apr-04			0.002	0.7											
	Apr-05			0.001	0.7											
	Apr-06		<0.2	<0.001	2.0											
	Apr-07		<0.2	<0.001	<1											
	Apr-08		<0.2	0.002	<1											
	Apr-09	<0.10	<0.2	<0.0010	1.1											

Well purchased by County and removed from program

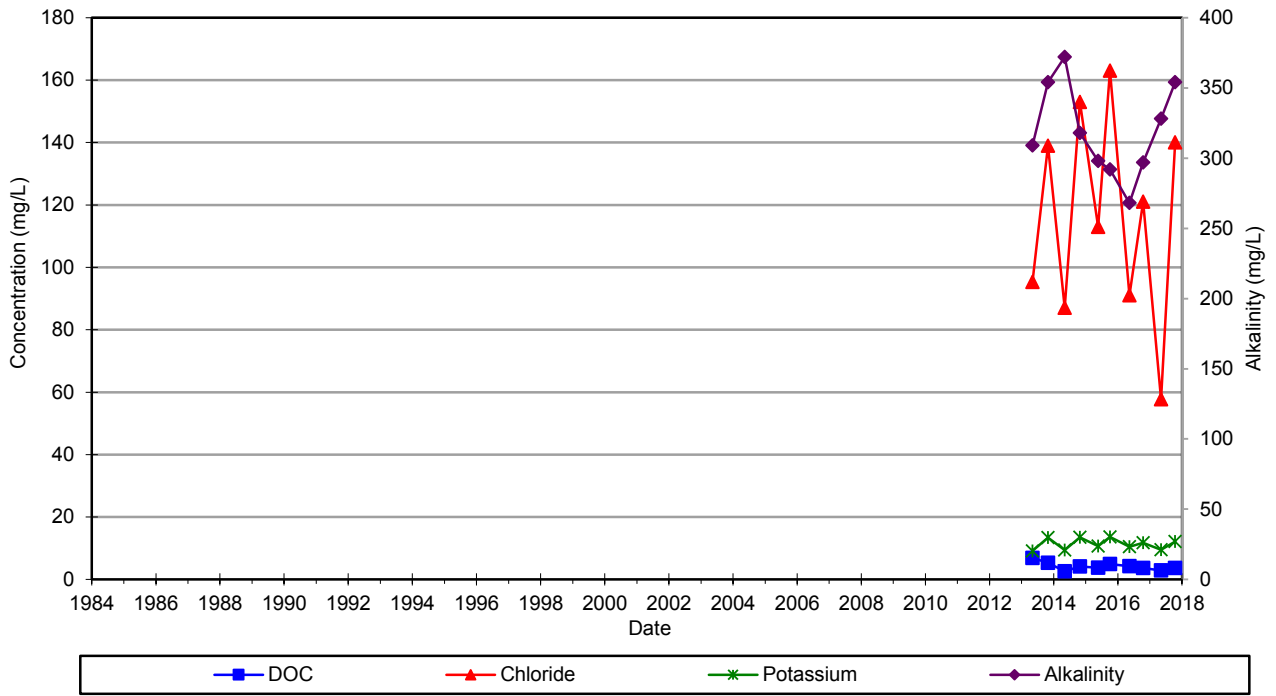
Notes: · ODWQS - Ontario Drinking Water Quality Standard (June 2003)
· * - indicates anomalous data, water likely softened

· MAC - Maximum Acceptable Concentration
· IMAC - Interim Maximum Acceptable Concentration

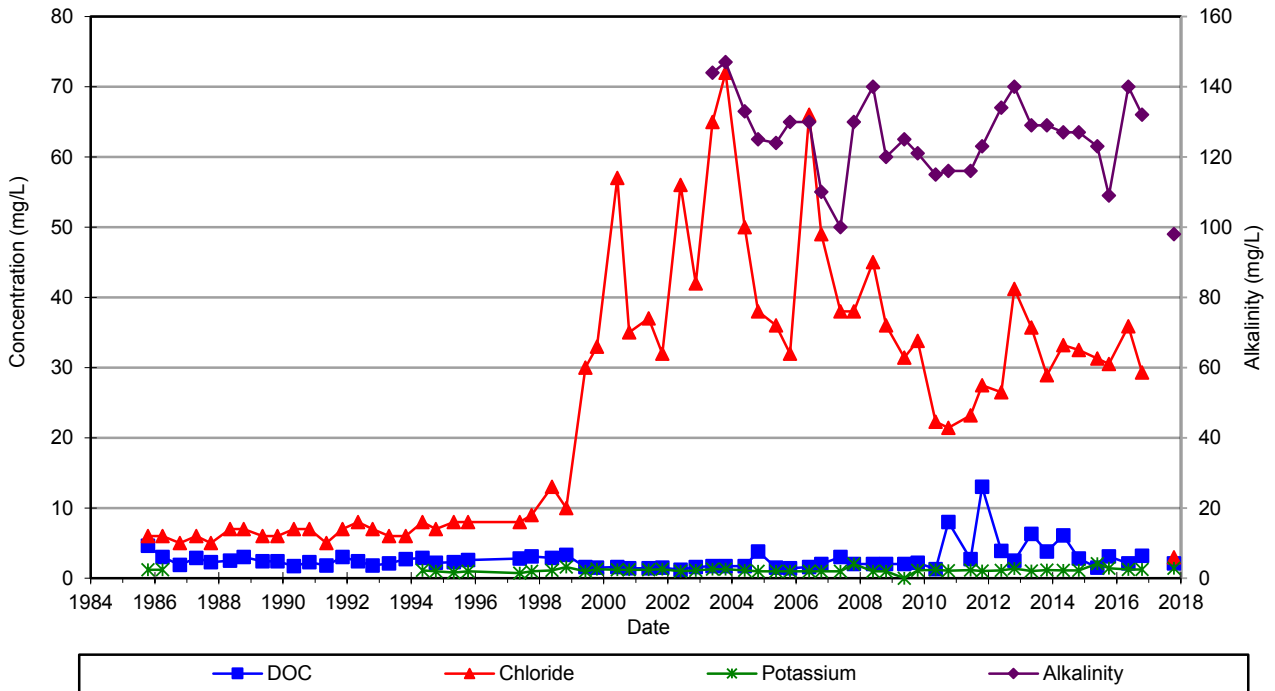
· AO - Aesthetic Objective
· OG - Operational Guideline

· NC - No criteria

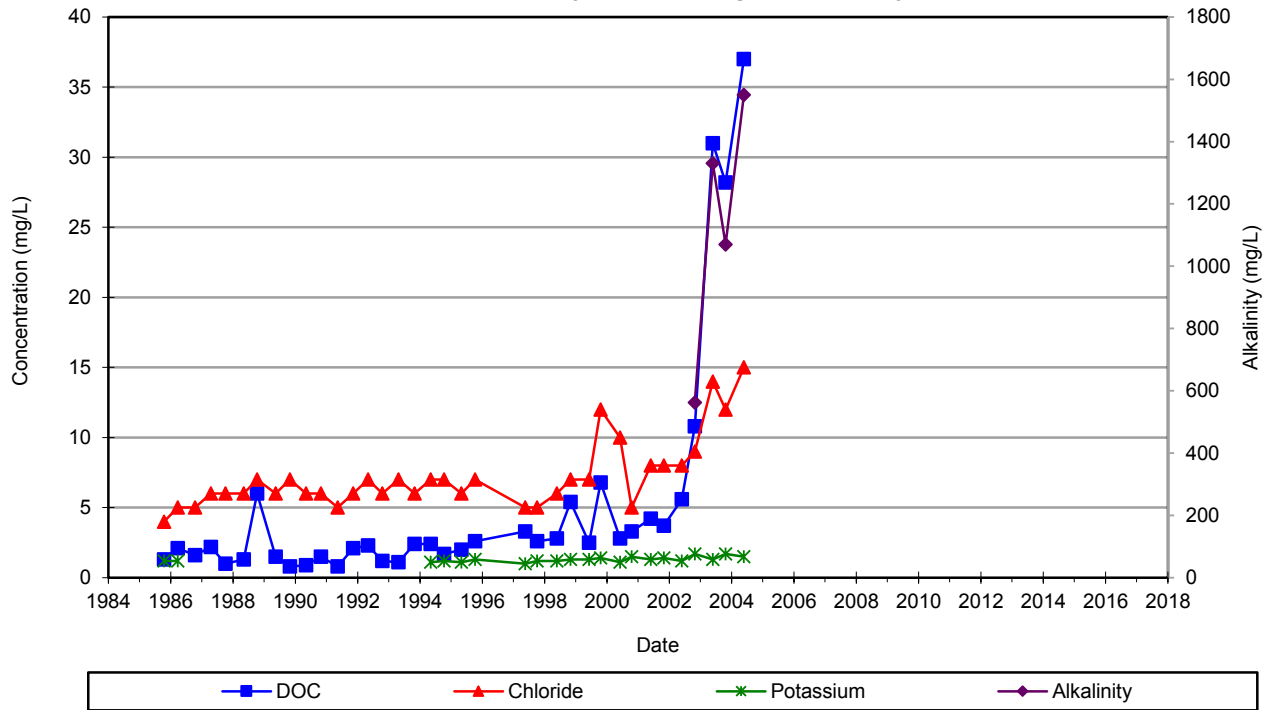
**Figure D-1: Concentration Versus Time
Fractured Till - Monitoring Well 03-7s
Oxford County Waste Management Facility**



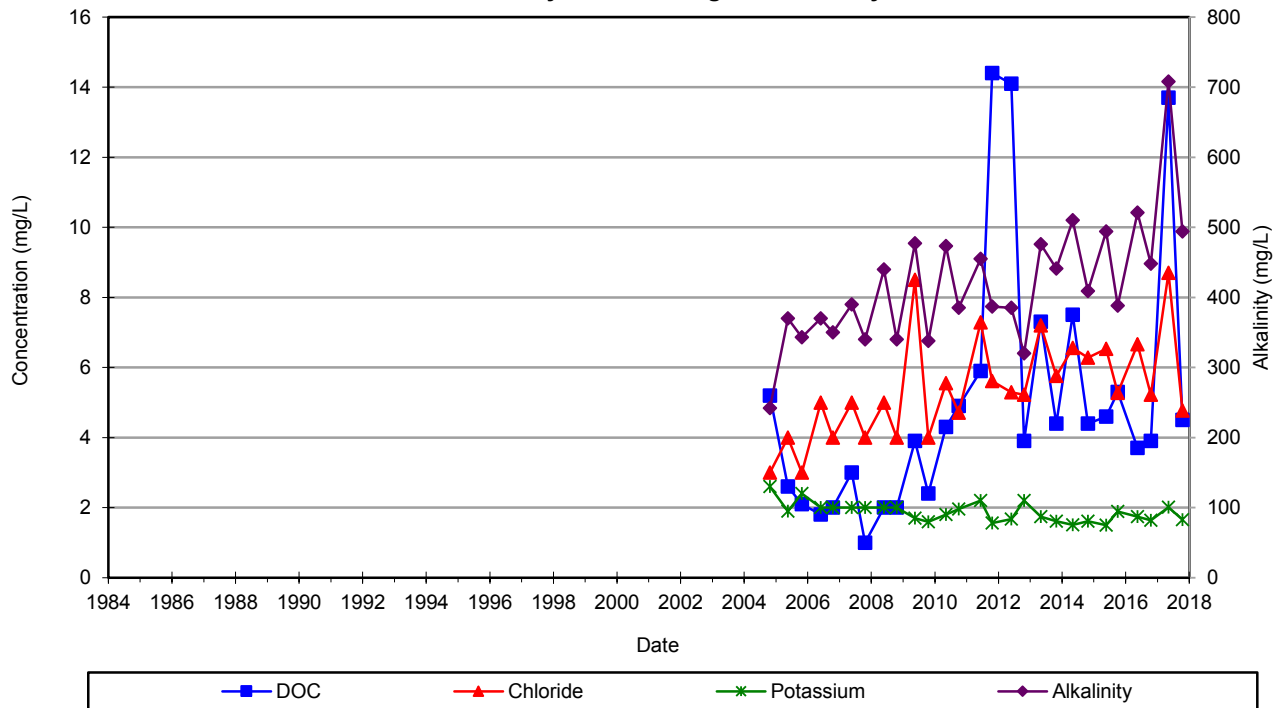
**Figure D-2: Concentration Versus Time
Fractured Till - Monitoring Well 111 / 111R
Oxford County Waste Management Facility**



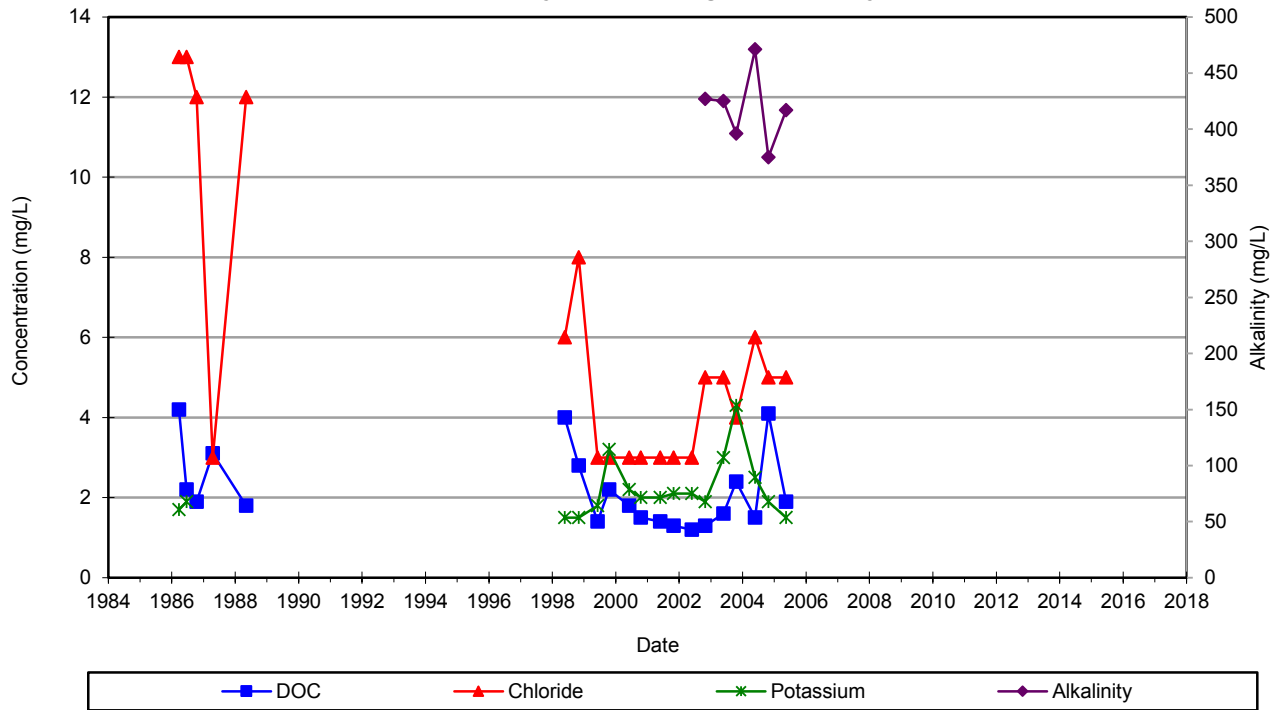
**Figure D-3: Concentration Versus Time
Fractured Till - Monitoring Well 141
Oxford County Waste Management Facility**



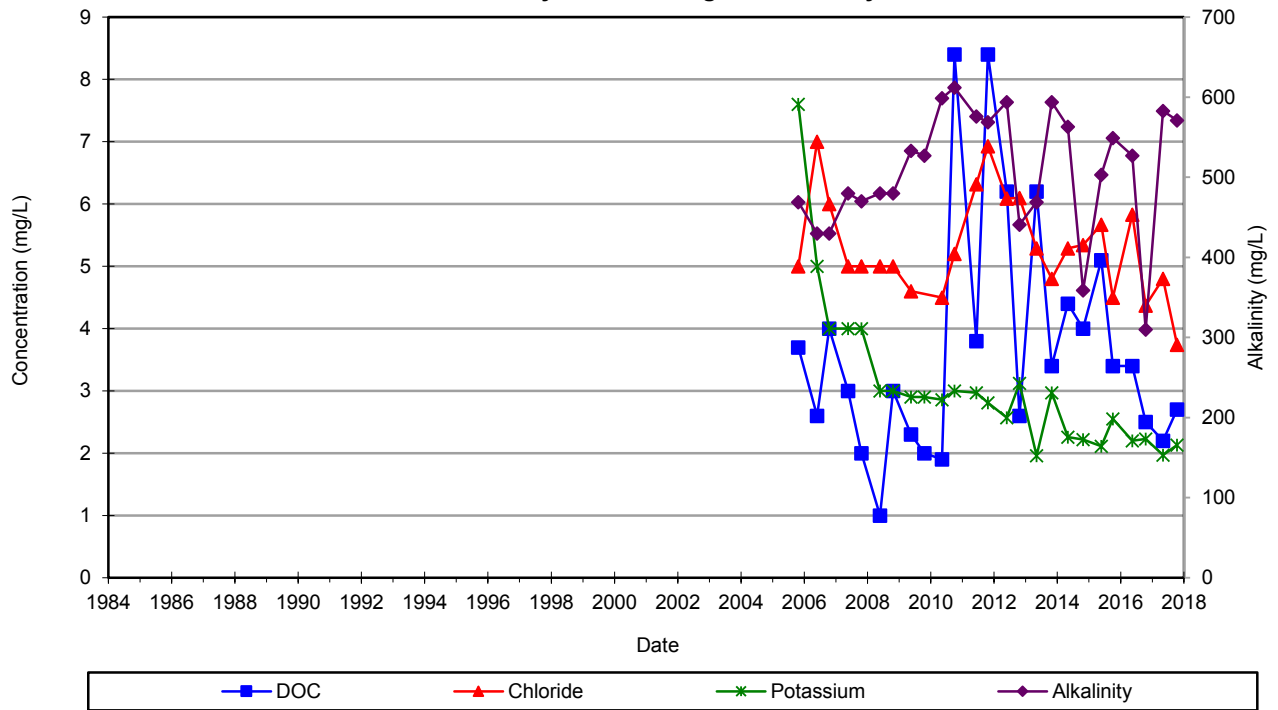
**Figure D-4: Concentration Versus Time
Fractured Till - Monitoring Well 141R
Oxford County Waste Management Facility**



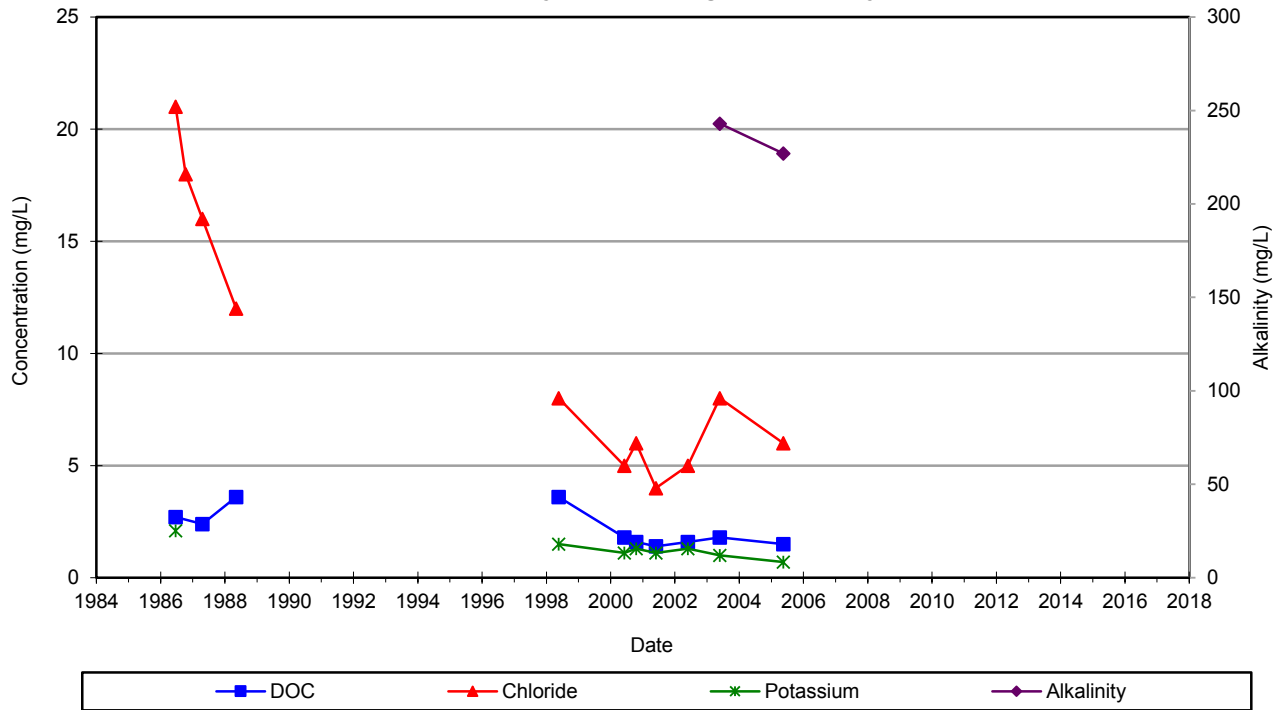
**Figure D-5: Concentration Versus Time
Fractured Till - Monitoring Well 233
Oxford County Waste Management Facility**



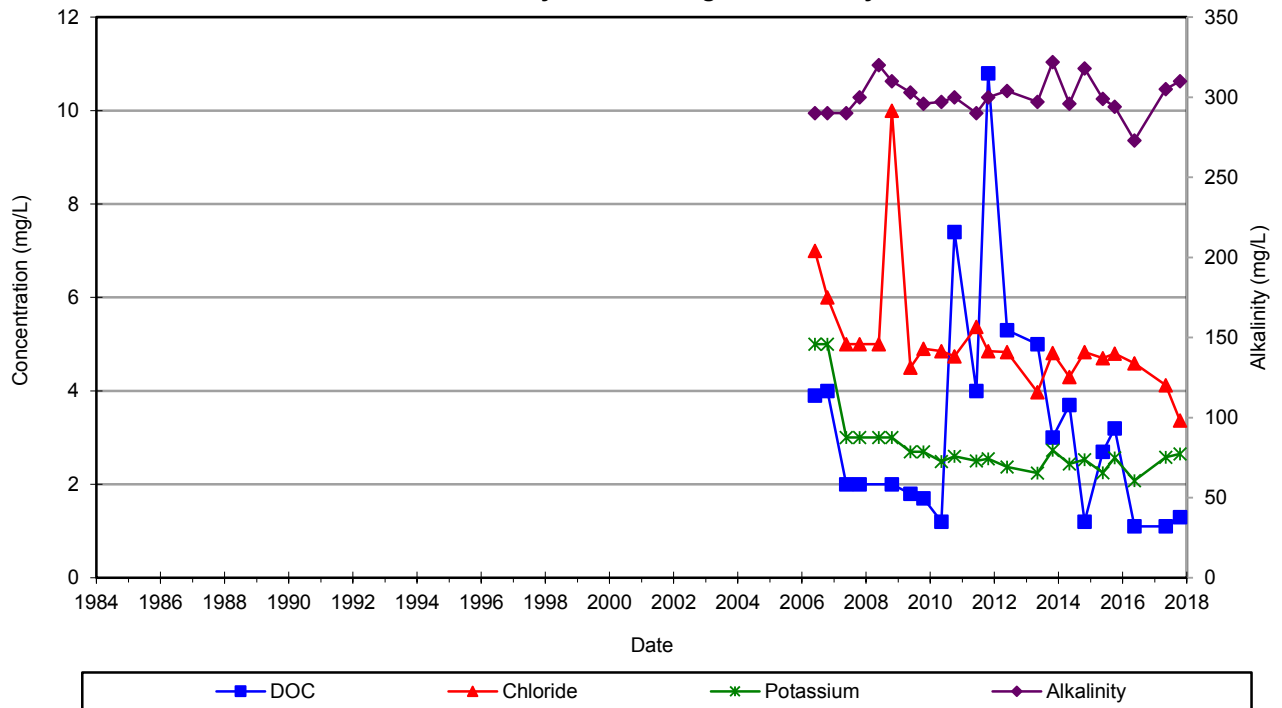
**Figure D-6: Concentration Versus Time
Fractured Till - Monitoring Well 233R
Oxford County Waste Management Facility**



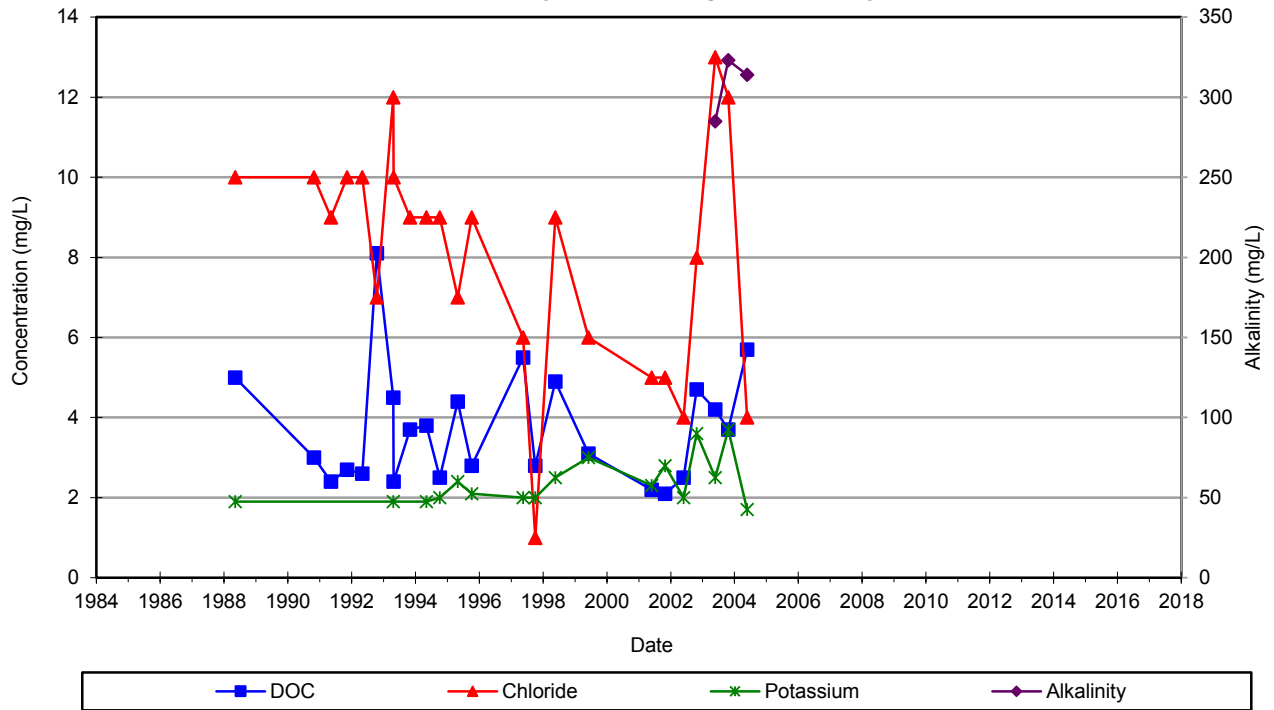
**Figure D-7: Concentration Versus Time
Fractured Till - Monitoring Well 263
Oxford County Waste Management Facility**



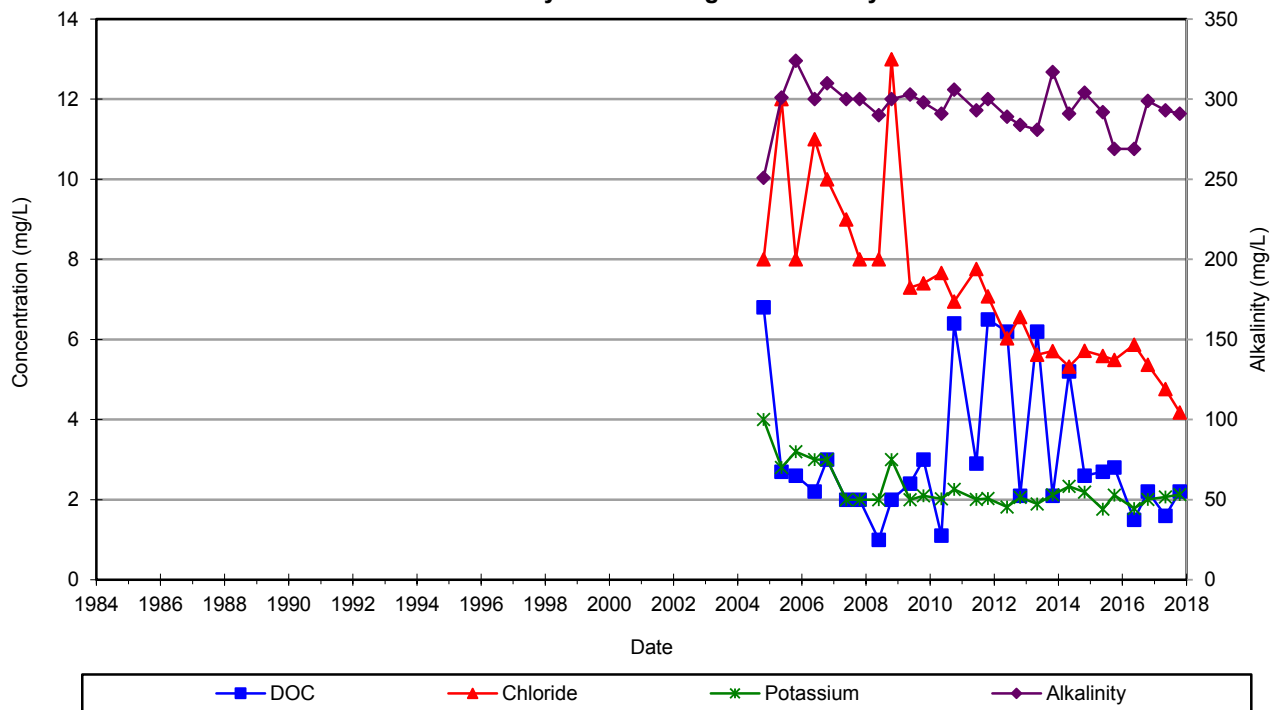
**Figure D-8: Concentration Versus Time
Fractured Till - Monitoring Well 263R
Oxford County Waste Management Facility**



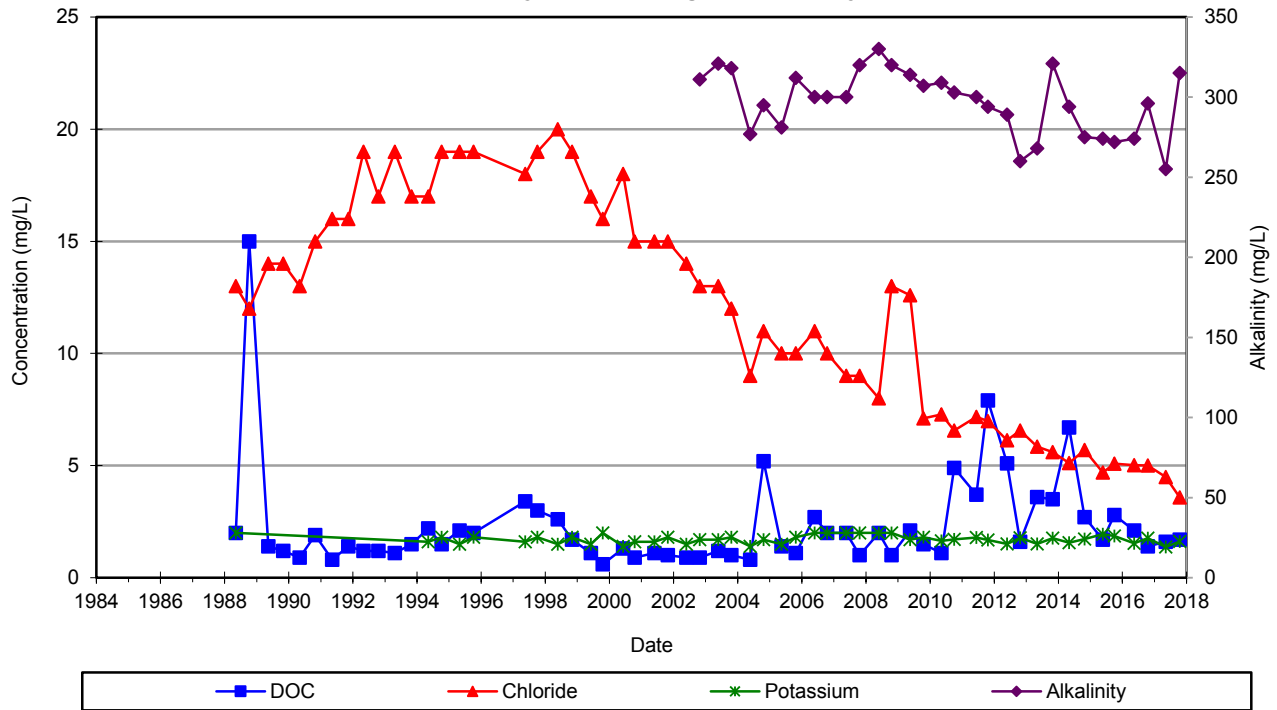
**Figure D-9: Concentration Versus Time
Fractured Till - Monitoring Well 531
Oxford County Waste Management Facility**



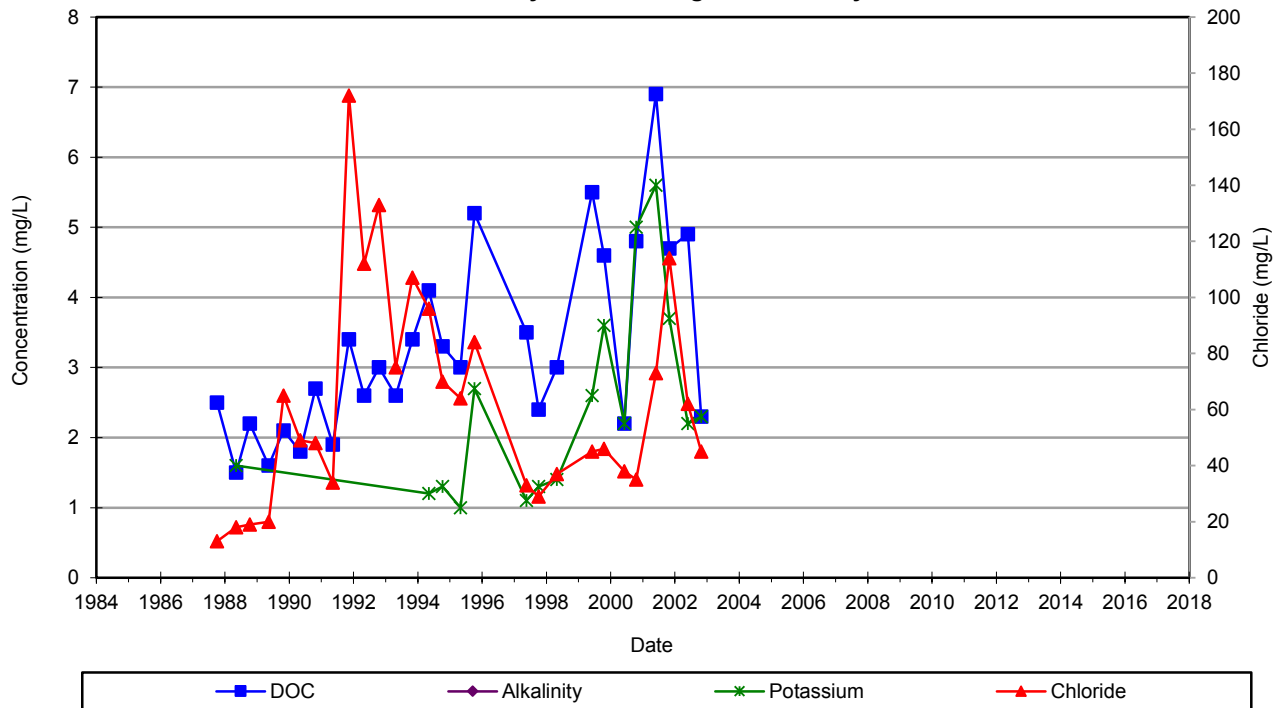
**Figure D-10: Concentration Versus Time
Fractured Till - Monitoring Well 531R
Oxford County Waste Management Facility**



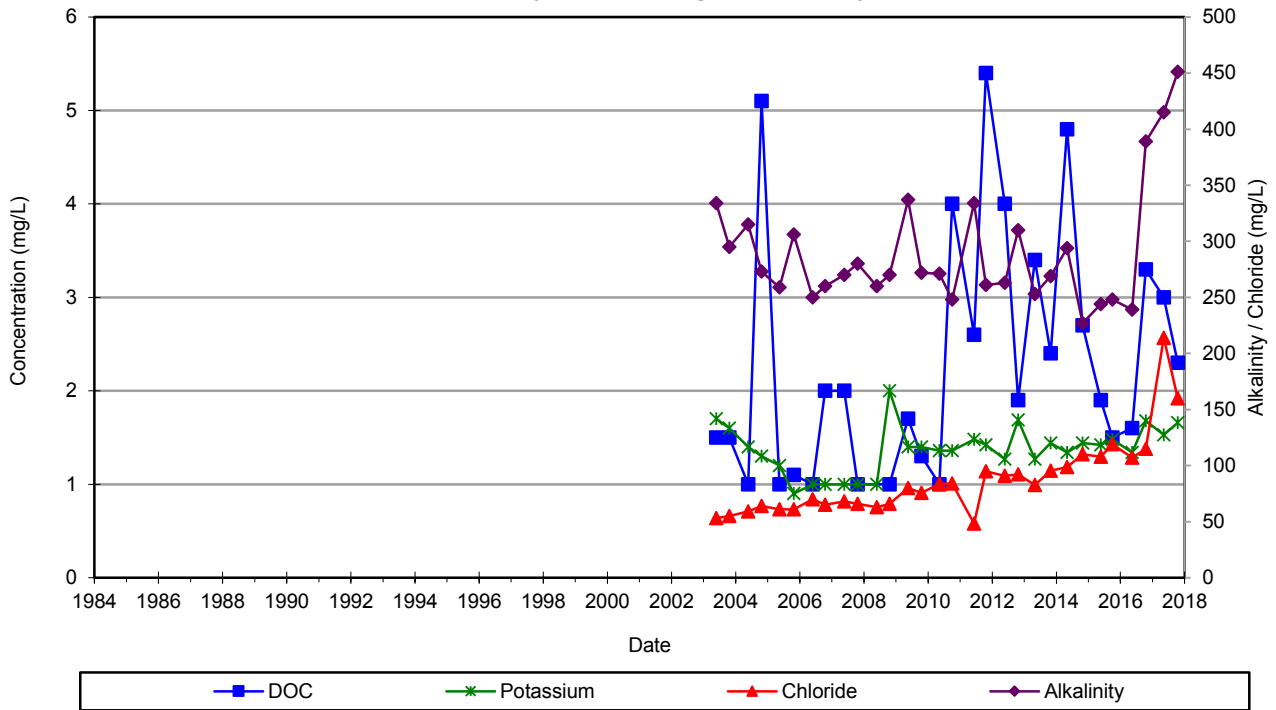
**Figure D-11: Concentration Versus Time
Fractured Till - Monitoring Well 541
Oxford County Waste Management Facility**



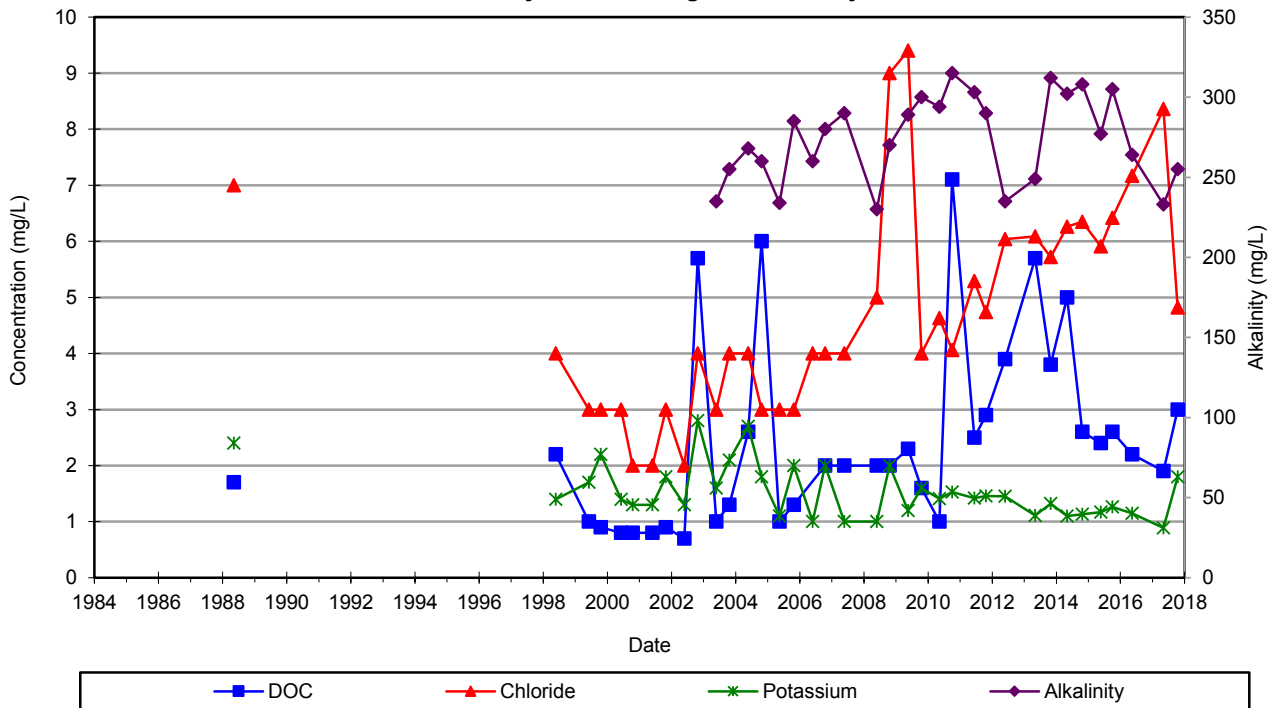
**Figure D-12: Concentration Versus Time
Fractured Till - Monitoring Well 552
Oxford County Waste Management Facility**



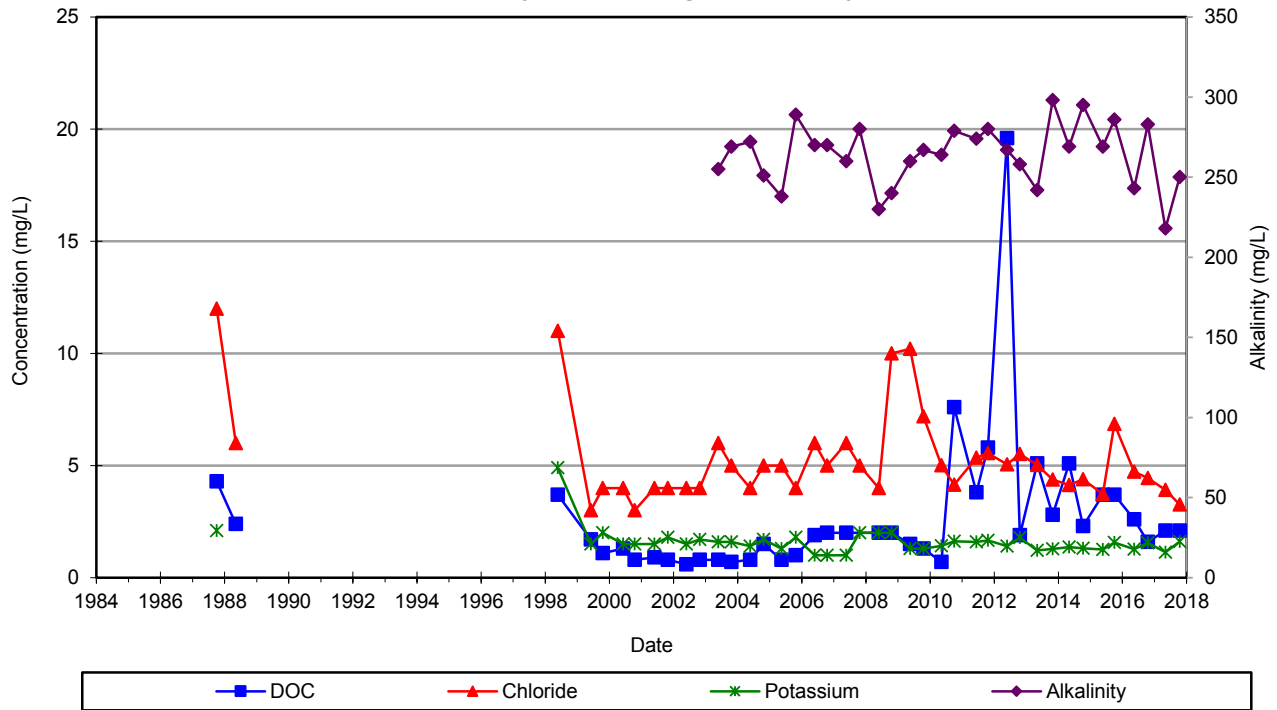
**Figure D-13: Concentration Versus Time
Fractured Till - Monitoring Well 552R
Oxford County Waste Management Facility**



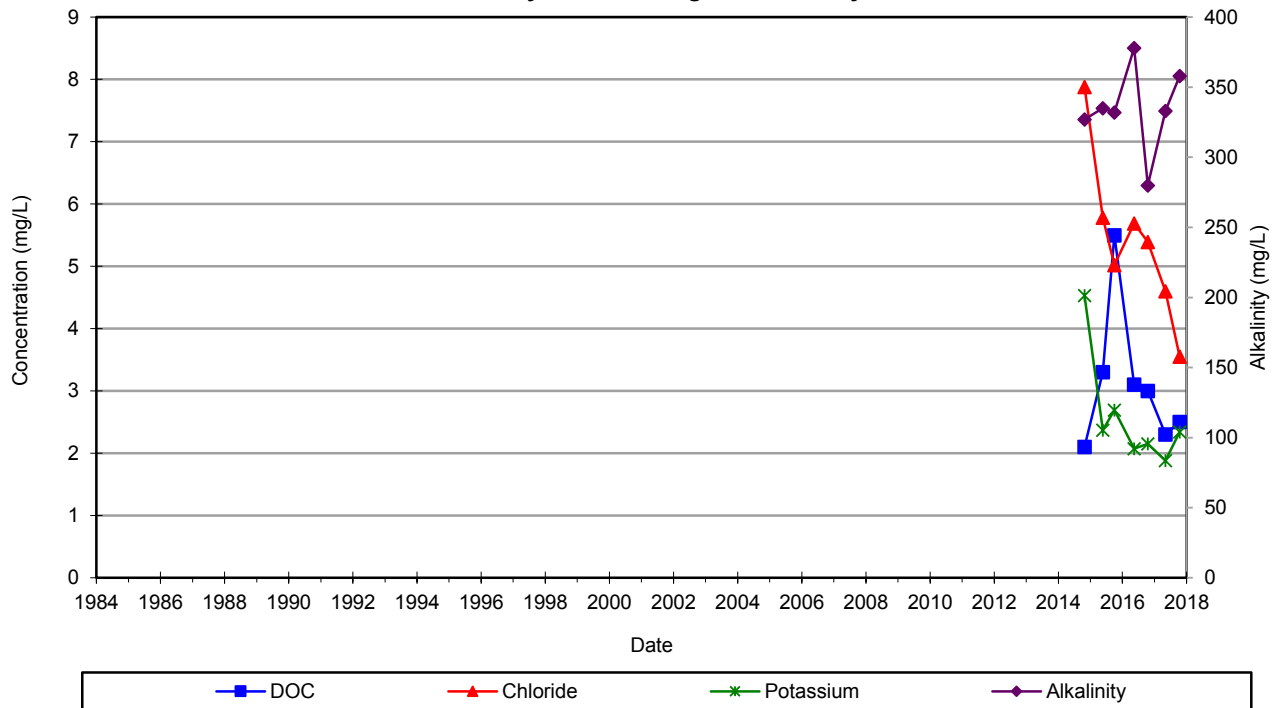
**Figure D-14: Concentration Versus Time
Fractured Till - Monitoring Well 562
Oxford County Waste Management Facility**



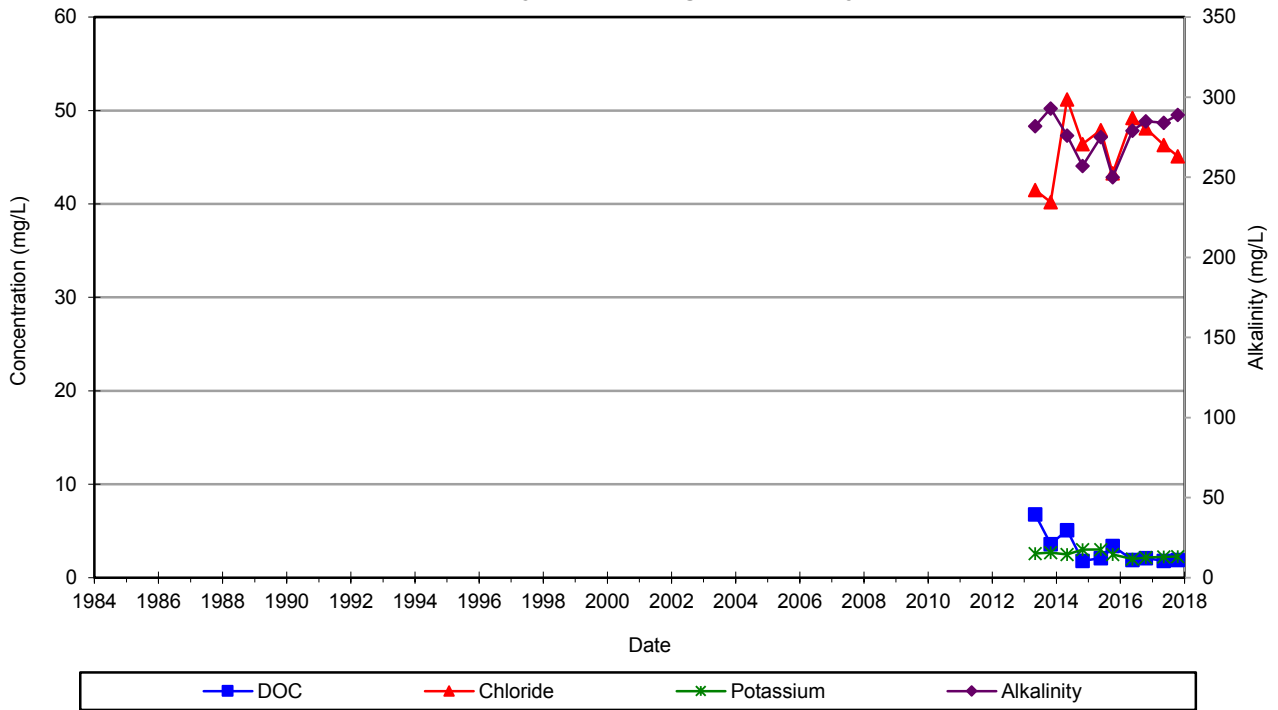
**Figure D-15: Concentration Versus Time
Fractured Till - Monitoring Well 581
Oxford County Waste Management Facility**



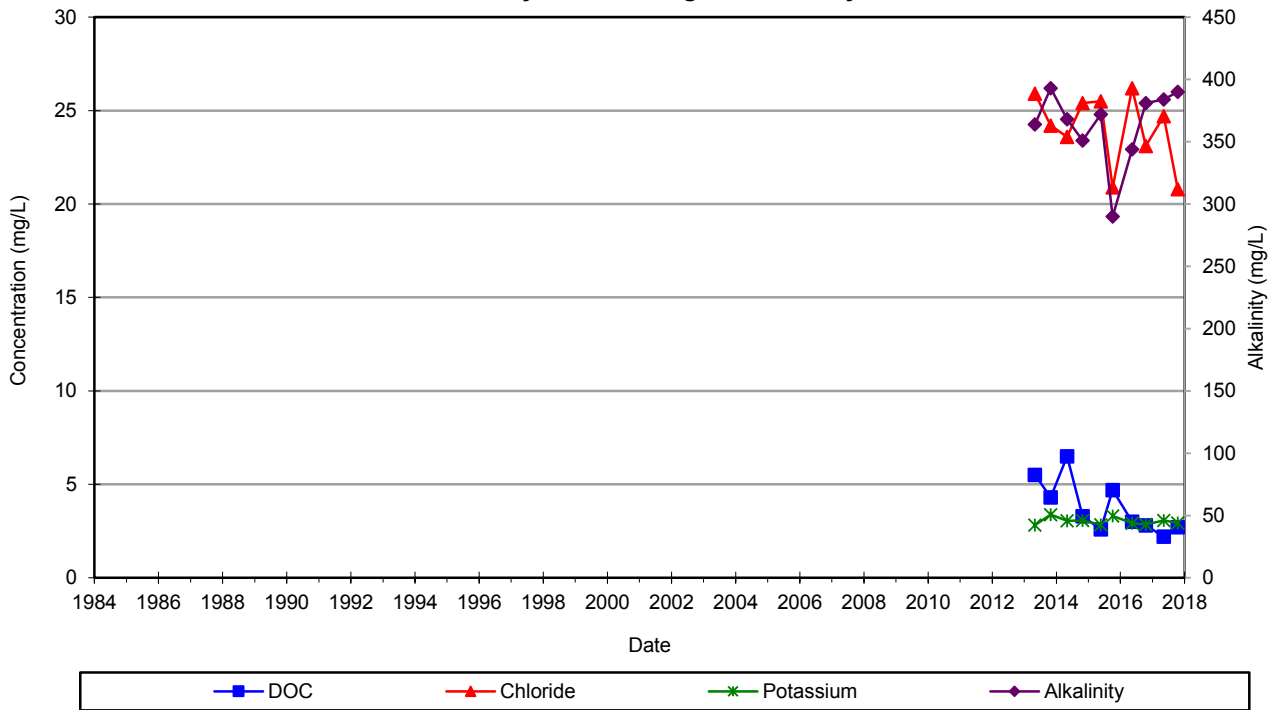
**Figure D-16: Concentration Versus Time
Fractured Till - Monitoring Well 592
Oxford County Waste Management Facility**



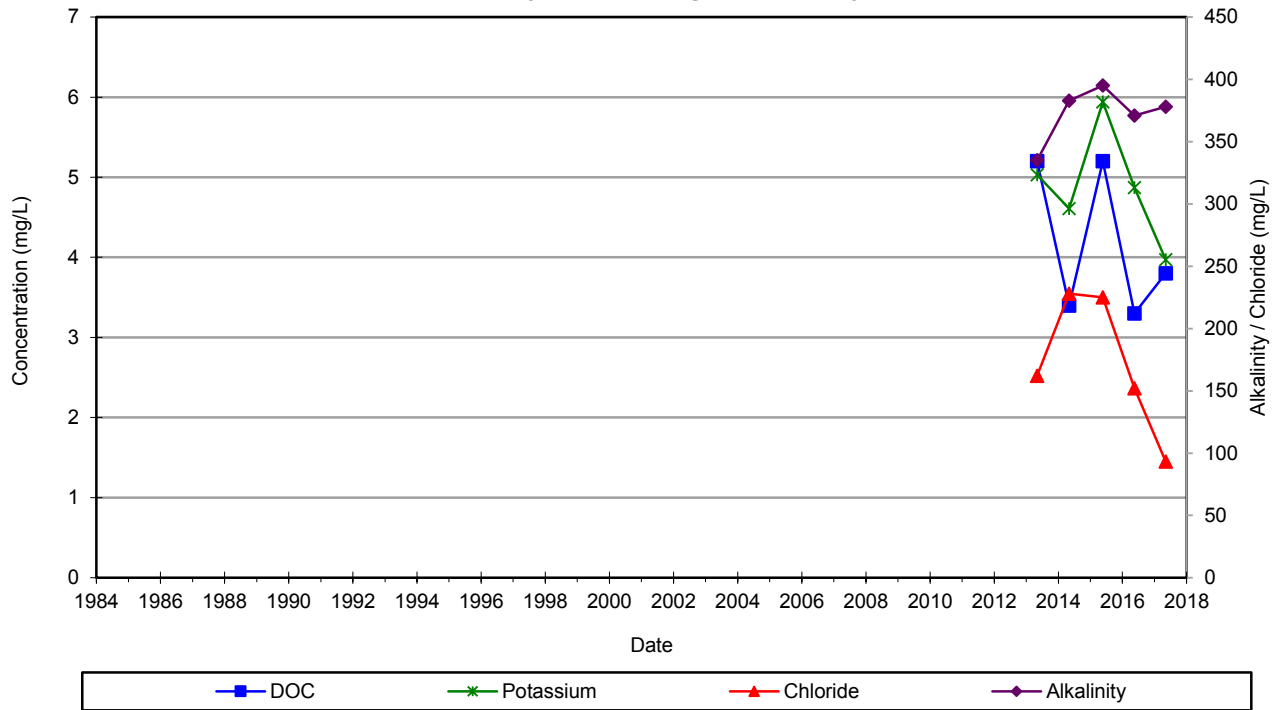
**Figure D-17: Concentration Versus Time
Upper Till - Monitoring Well 00-04
Oxford County Waste Management Facility**



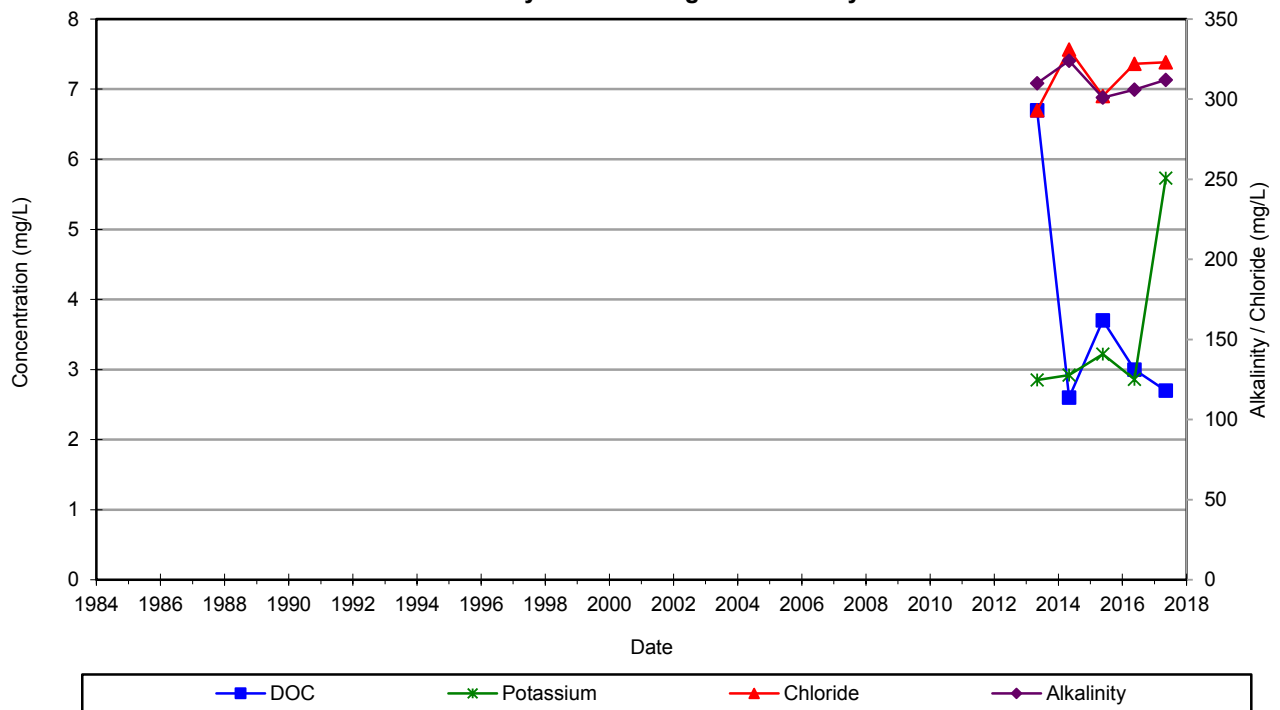
**Figure D-18: Concentration Versus Time
Upper Till - Monitoring Well 023R
Oxford County Waste Management Facility**



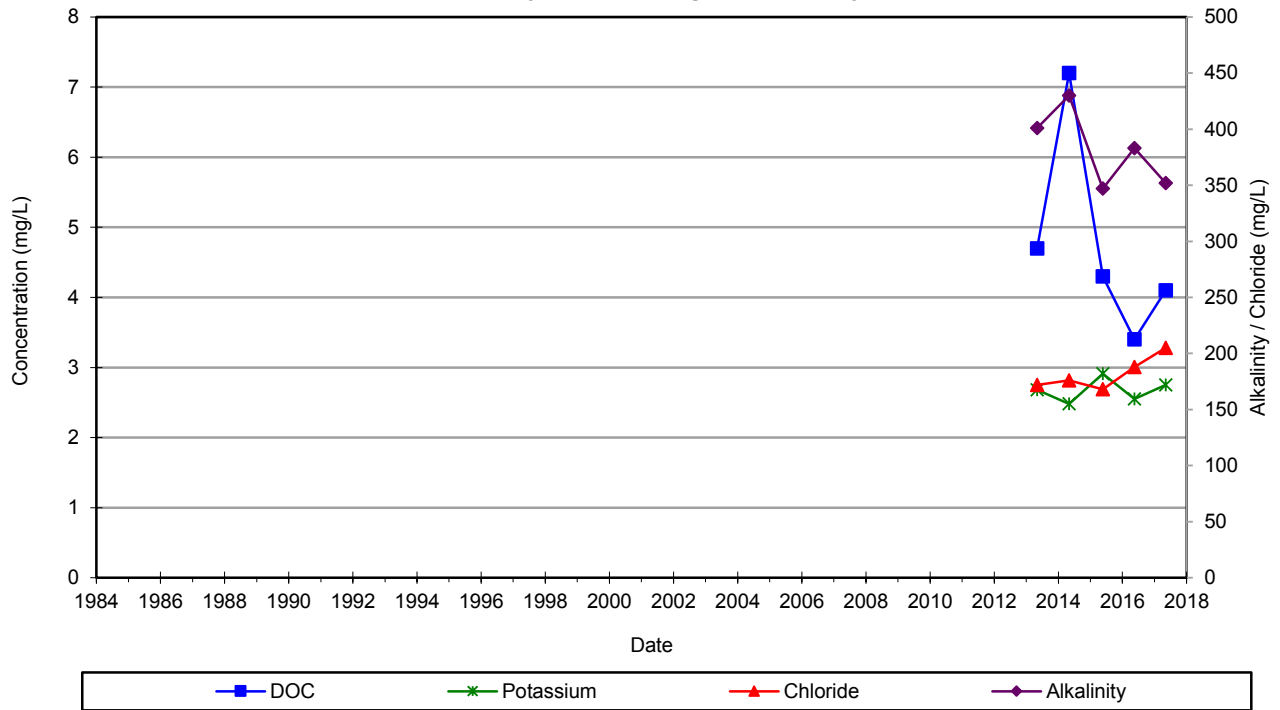
**Figure D-19: Concentration Versus Time
Upper Till - Monitoring Well 03-3
Oxford County Waste Management Facility**



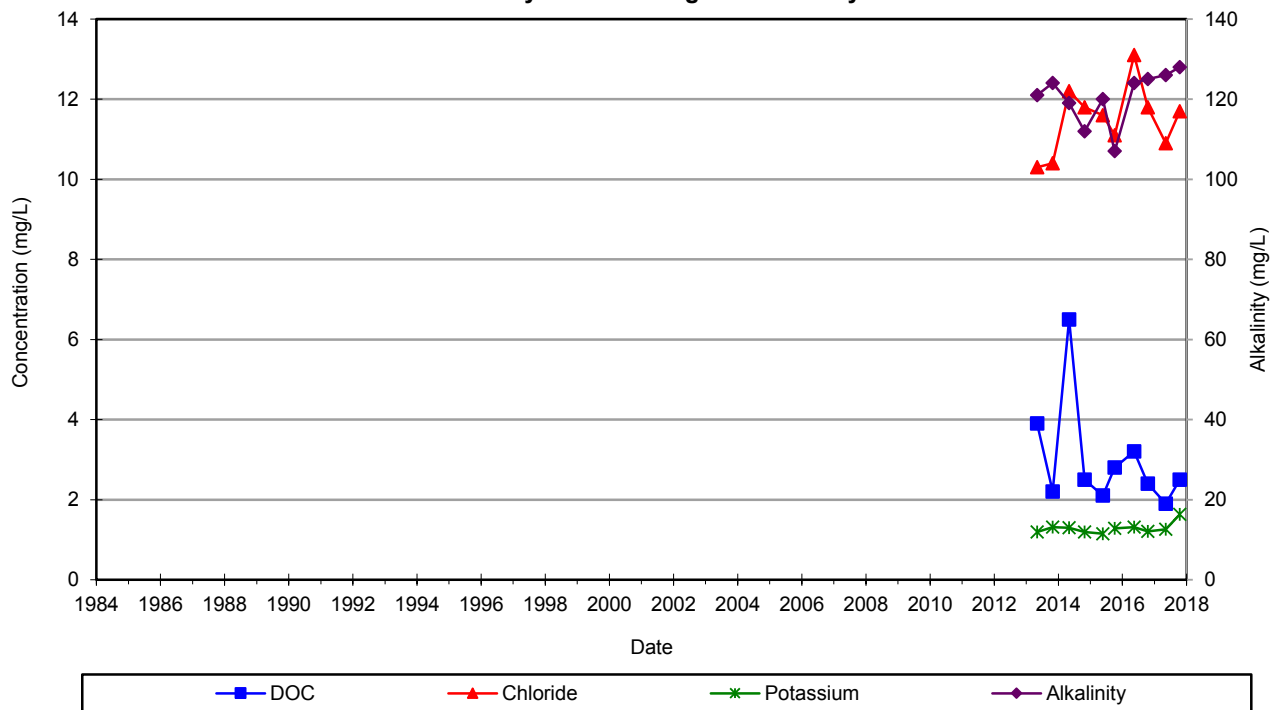
**Figure D-20: Concentration Versus Time
Upper Till - Monitoring Well 03-4
Oxford County Waste Management Facility**



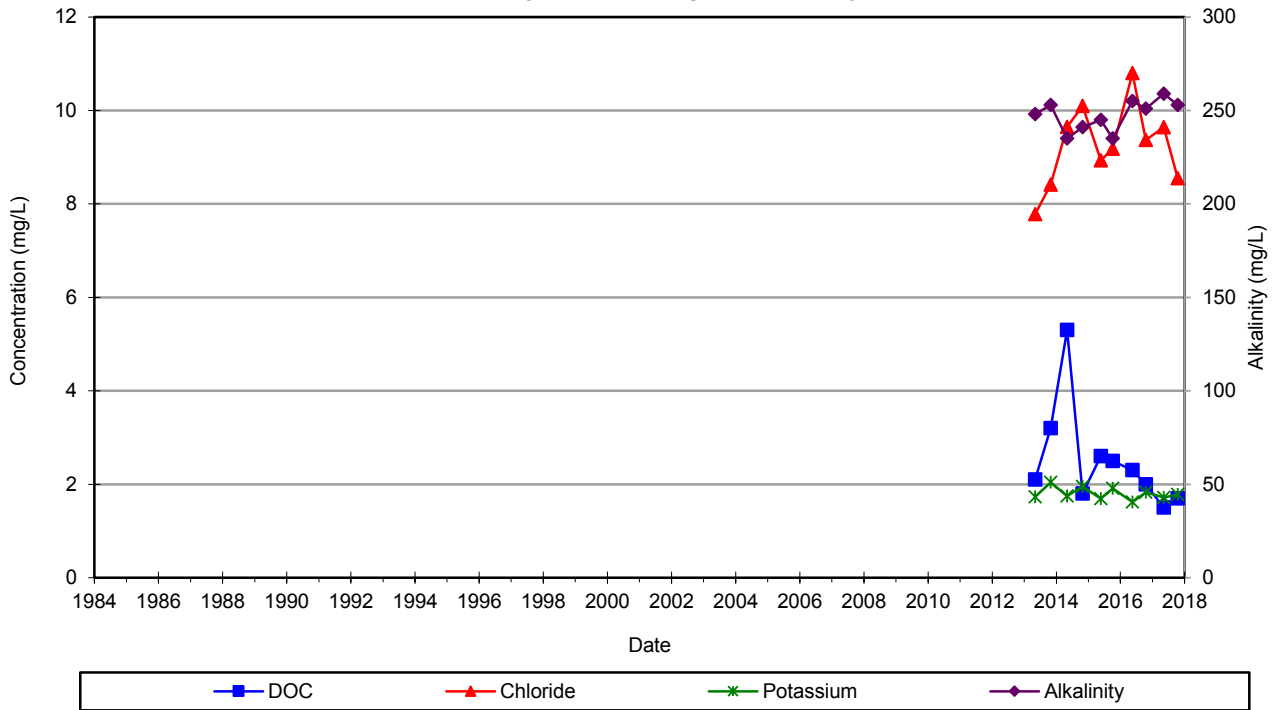
**Figure D-21: Concentration Versus Time
Upper Till - Monitoring Well 03-5
Oxford County Waste Management Facility**



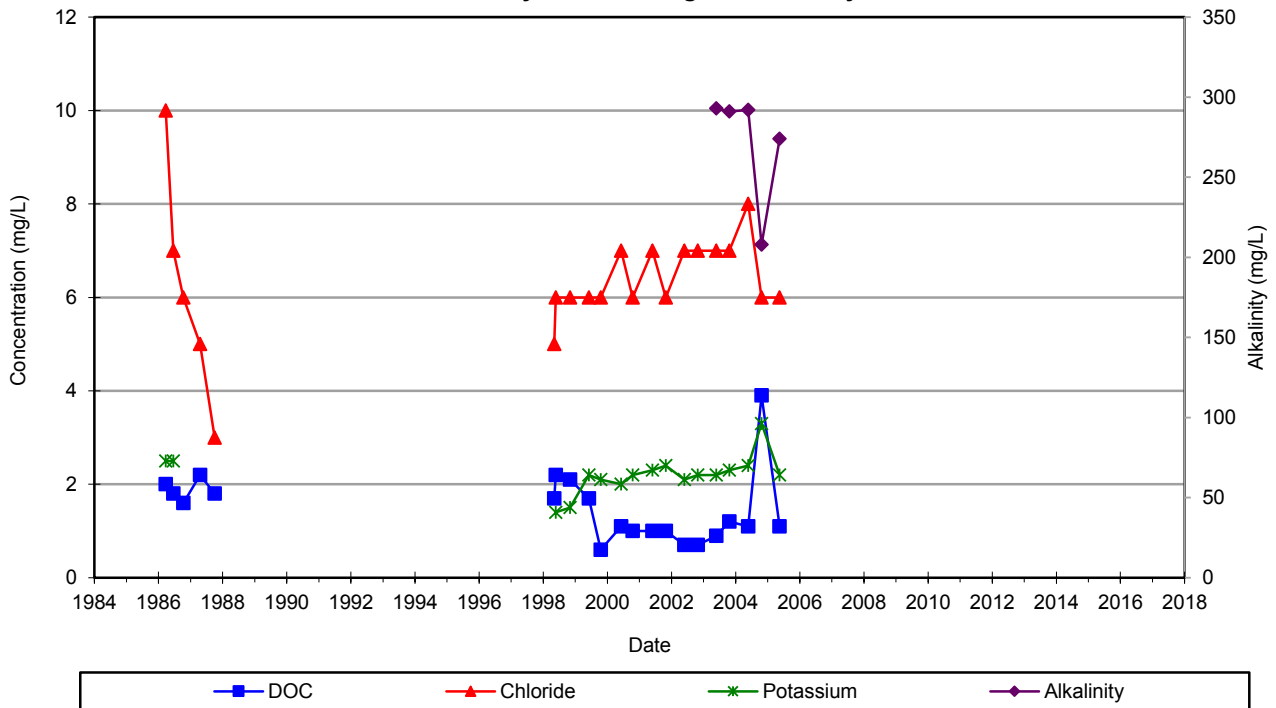
**Figure D-22: Concentration Versus Time
Upper Till - Monitoring Well 03-7d
Oxford County Waste Management Facility**



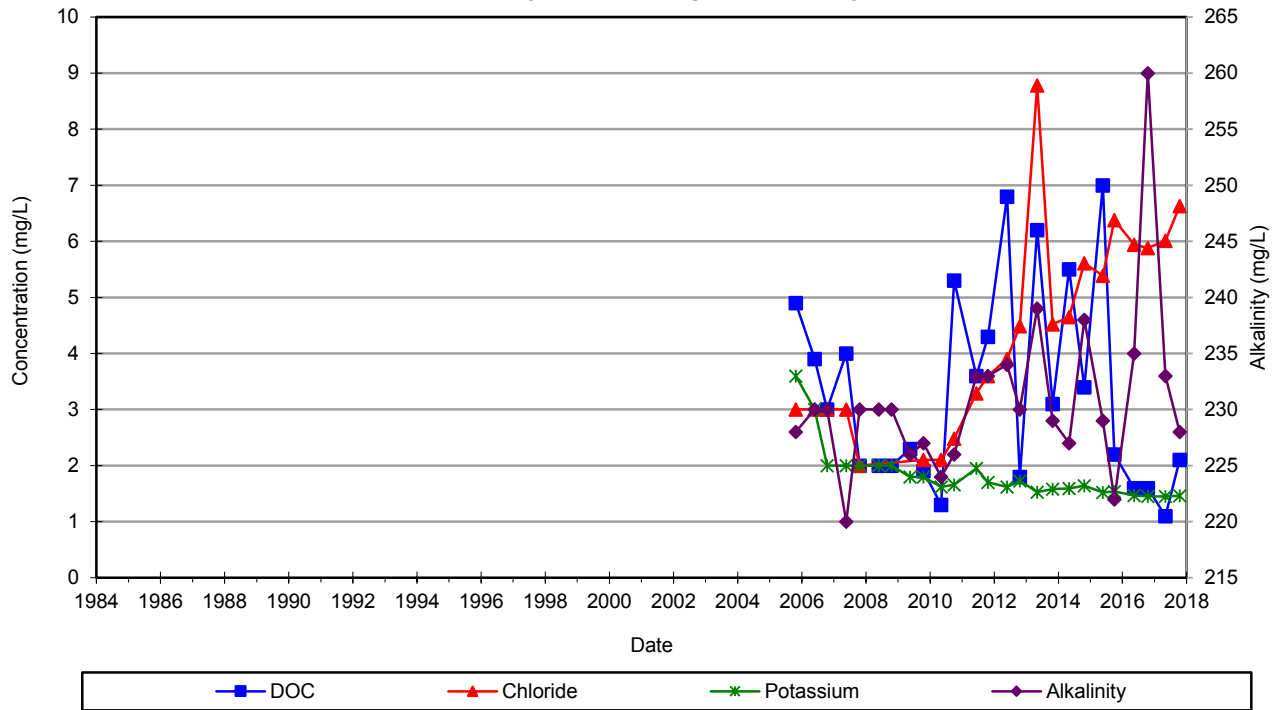
**Figure D-23: Concentration Versus Time
Upper Till - Monitoring Well 05-01
Oxford County Waste Management Facility**



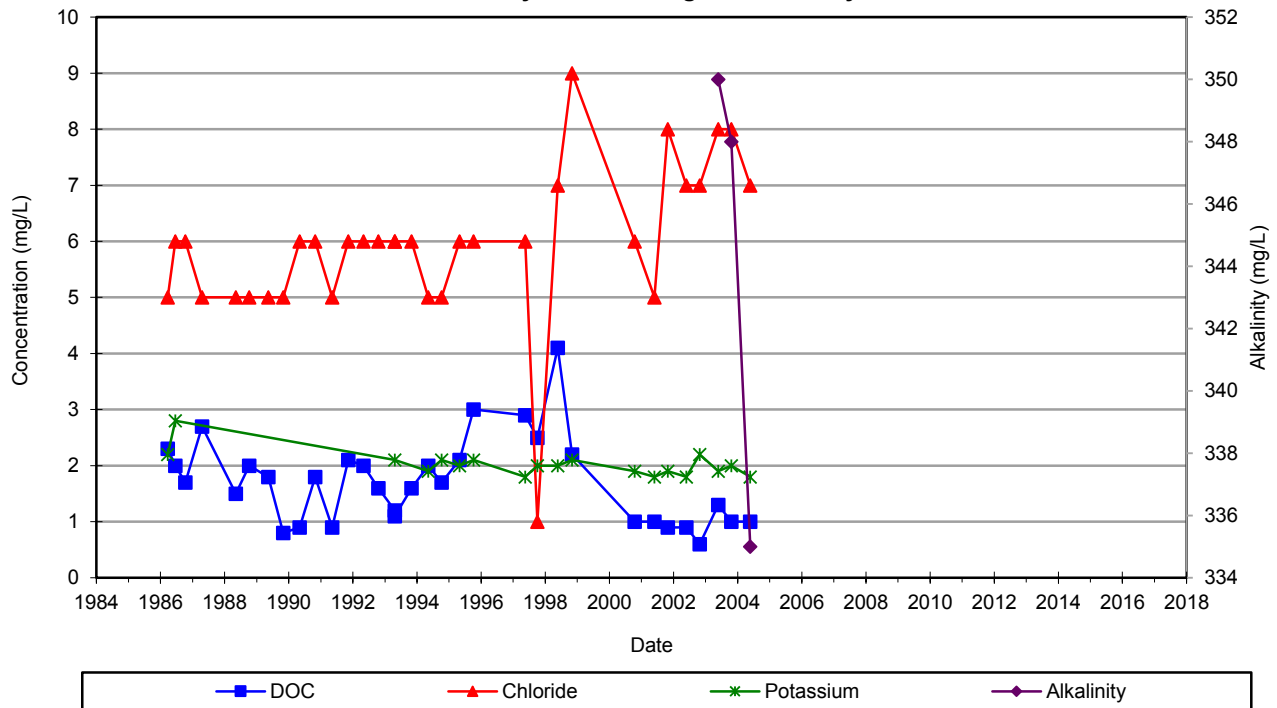
**Figure D-24: Concentration Versus Time
Upper Till - Monitoring Well 232
Oxford County Waste Management Facility**



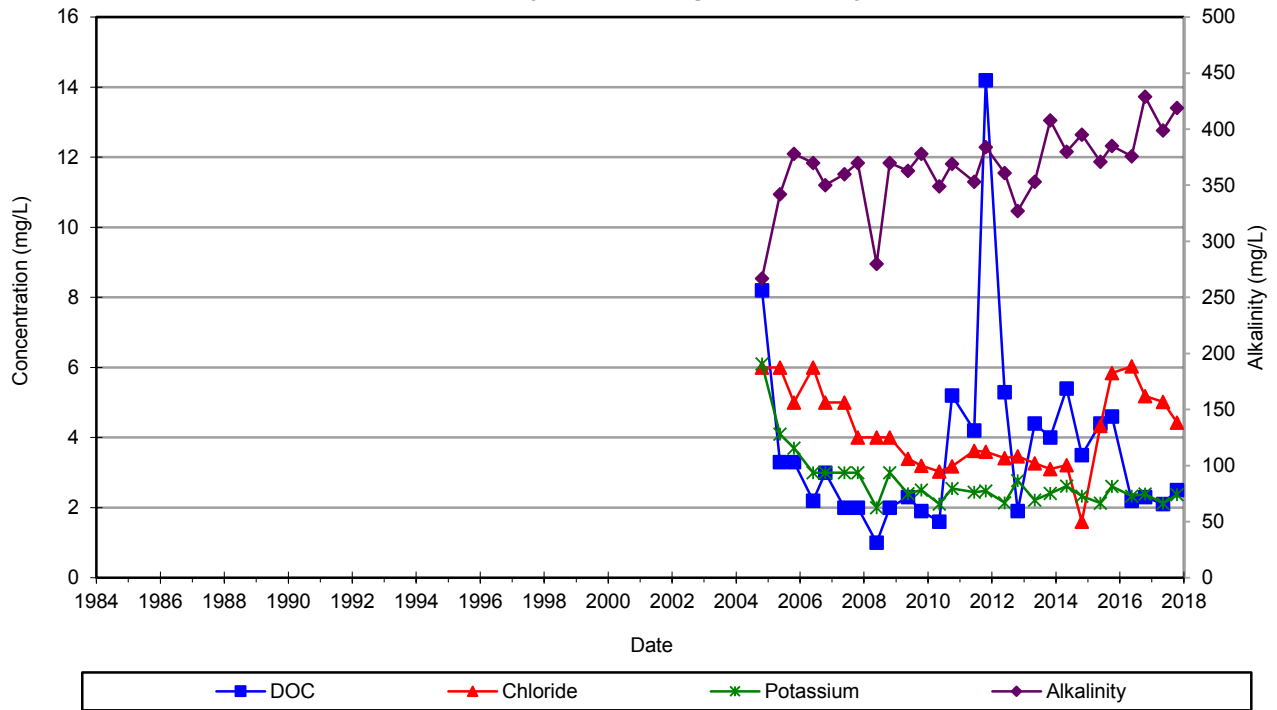
**Figure D-25: Concentration Versus Time
Upper Till - Monitoring Well 232R
Oxford County Waste Management Facility**



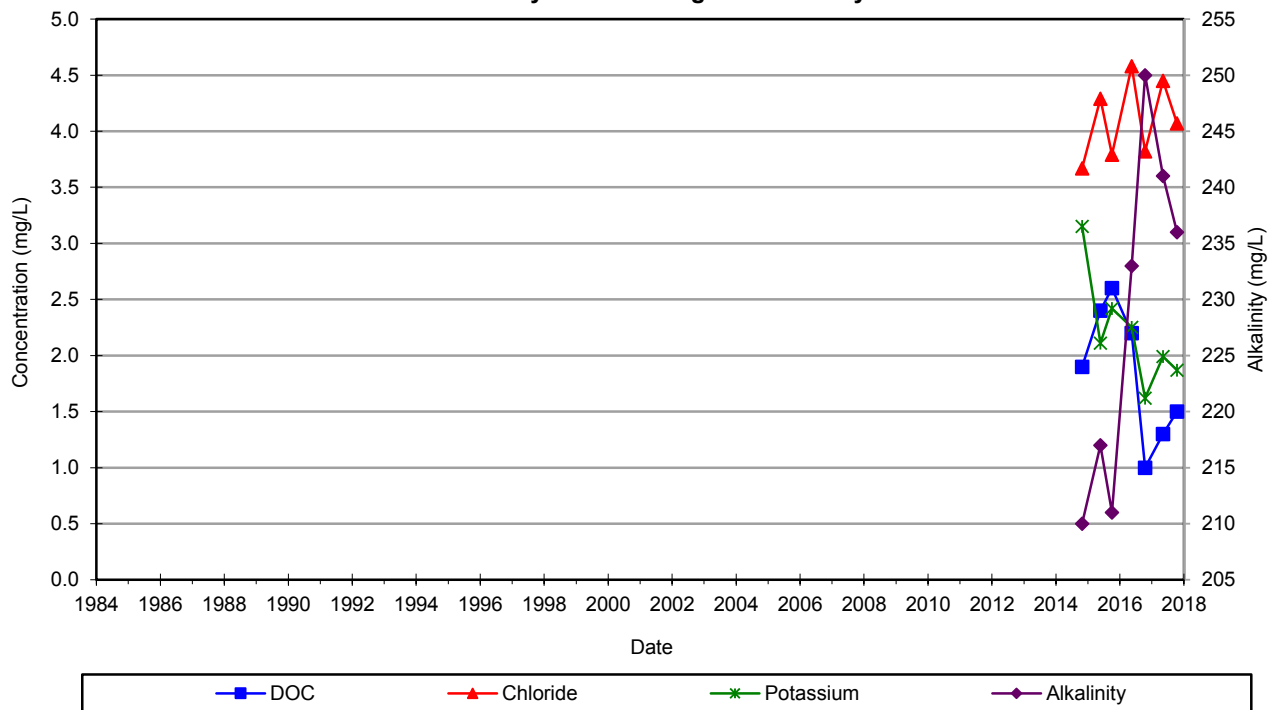
**Figure D-26: Concentration Versus Time
Upper Till - Monitoring Well 381
Oxford County Waste Management Facility**



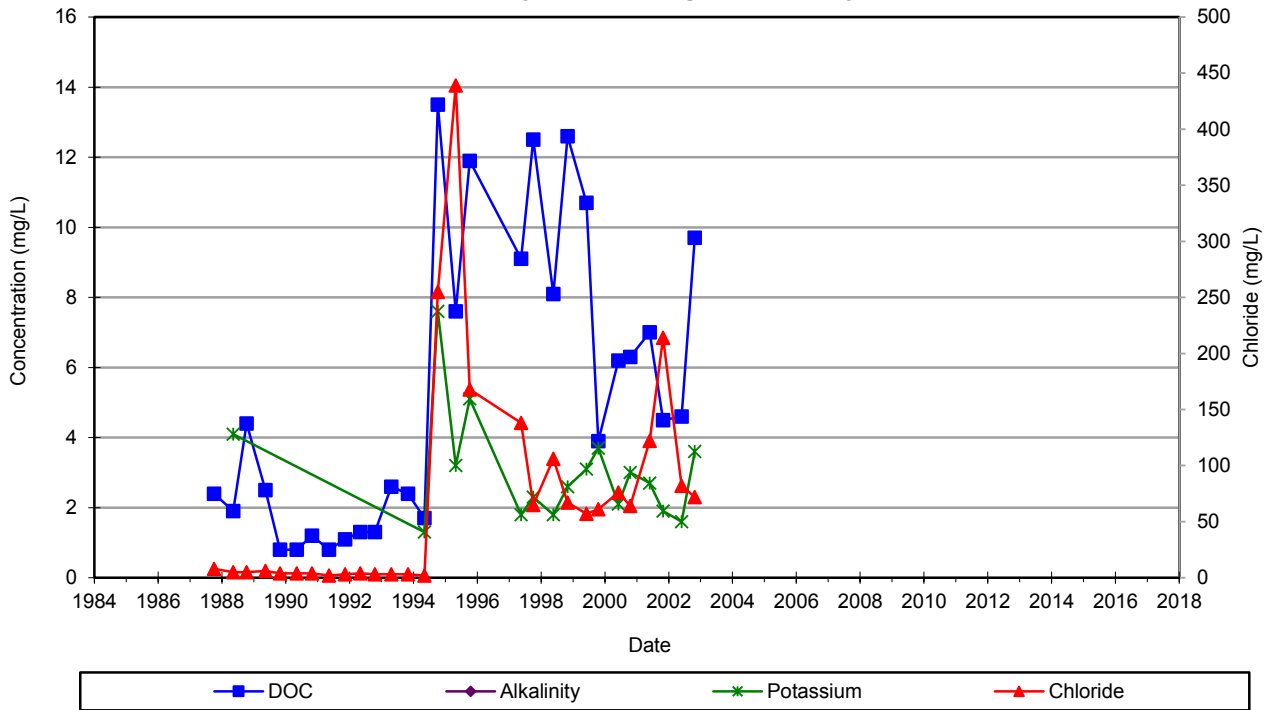
**Figure D-27: Concentration Versus Time
Upper Till - Monitoring Well 381R
Oxford County Waste Management Facility**



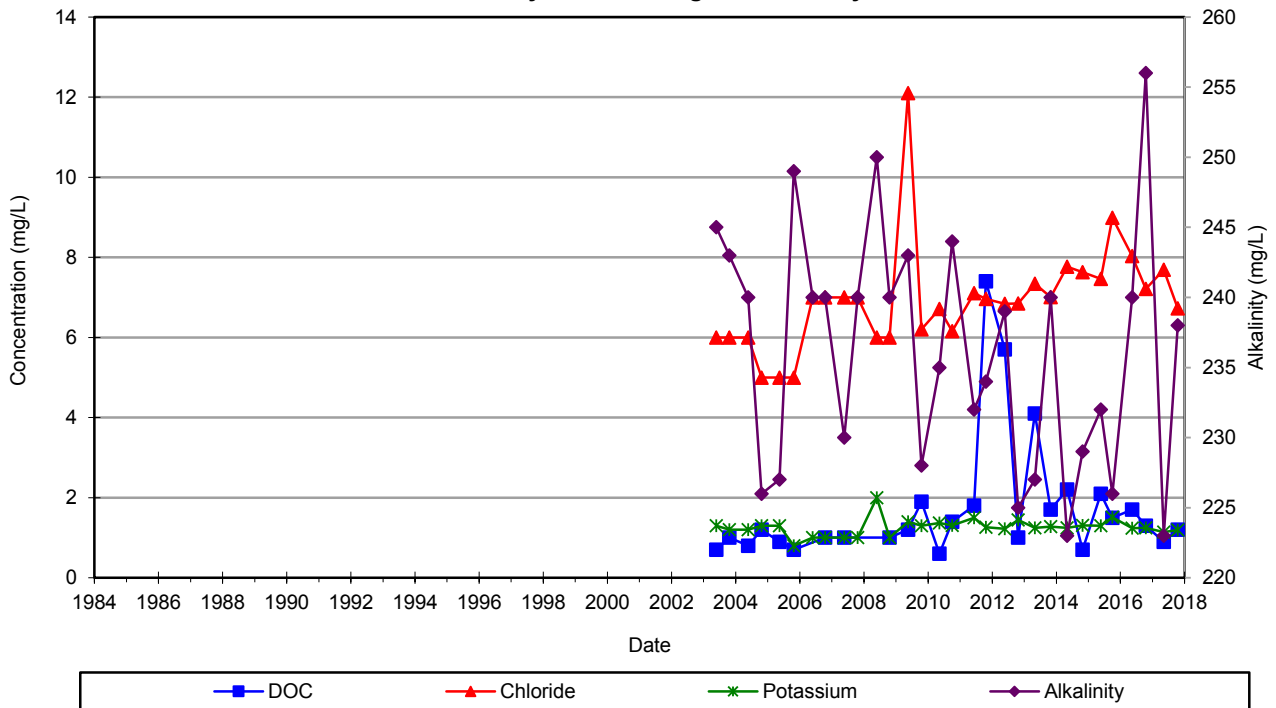
**Figure D-28: Concentration Versus Time
Upper Till - Monitoring Well 593
Oxford County Waste Management Facility**



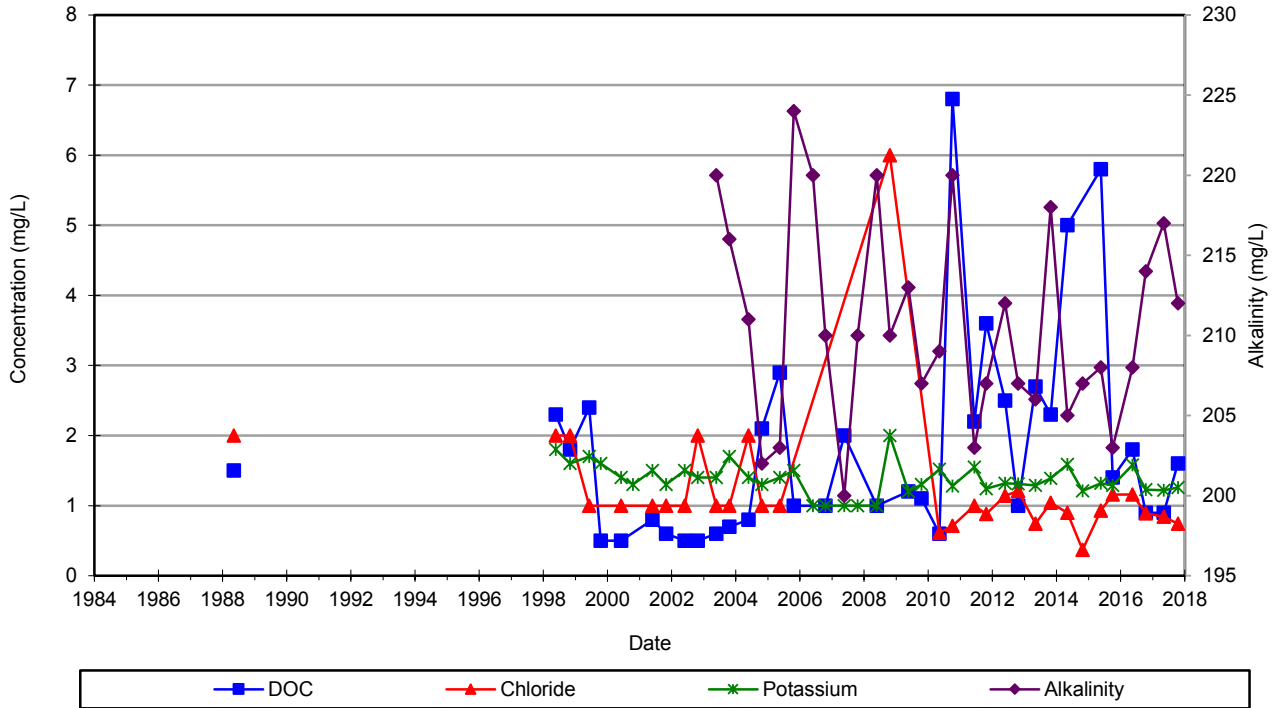
**Figure D-29: Concentration Versus Time
Inter-Till Sands - Monitoring Well 551
Oxford County Waste Management Facility**



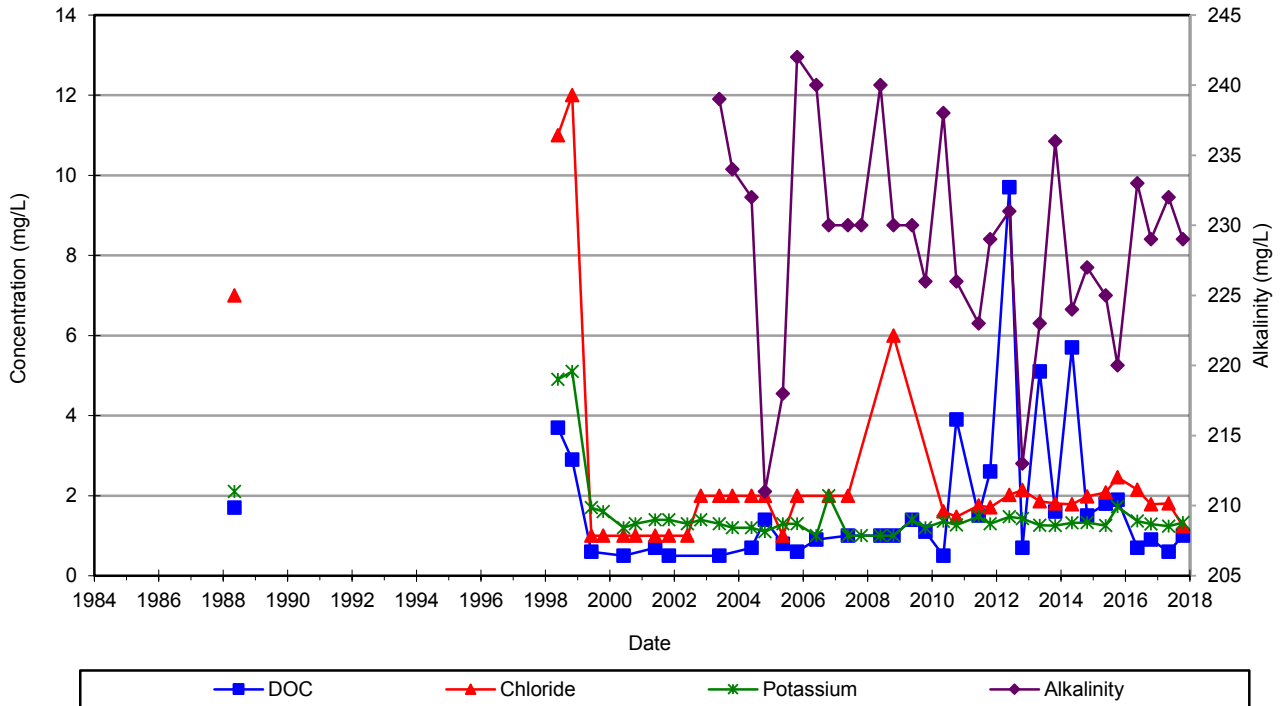
**Figure D-30: Concentration Versus Time
Inter-Till Sands - Monitoring Well 551R
Oxford County Waste Management Facility**



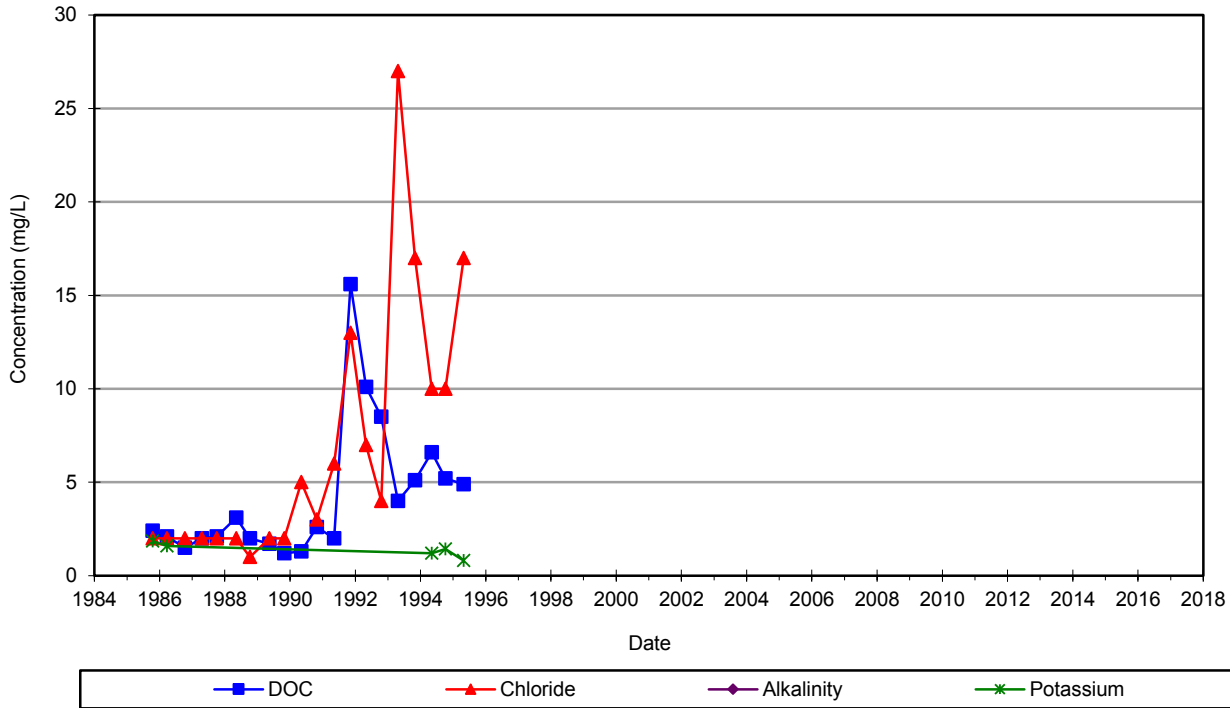
**Figure D-31: Concentration Versus Time
Inter-Till Sands - Monitoring Well 561
Oxford County Waste Management Facility**



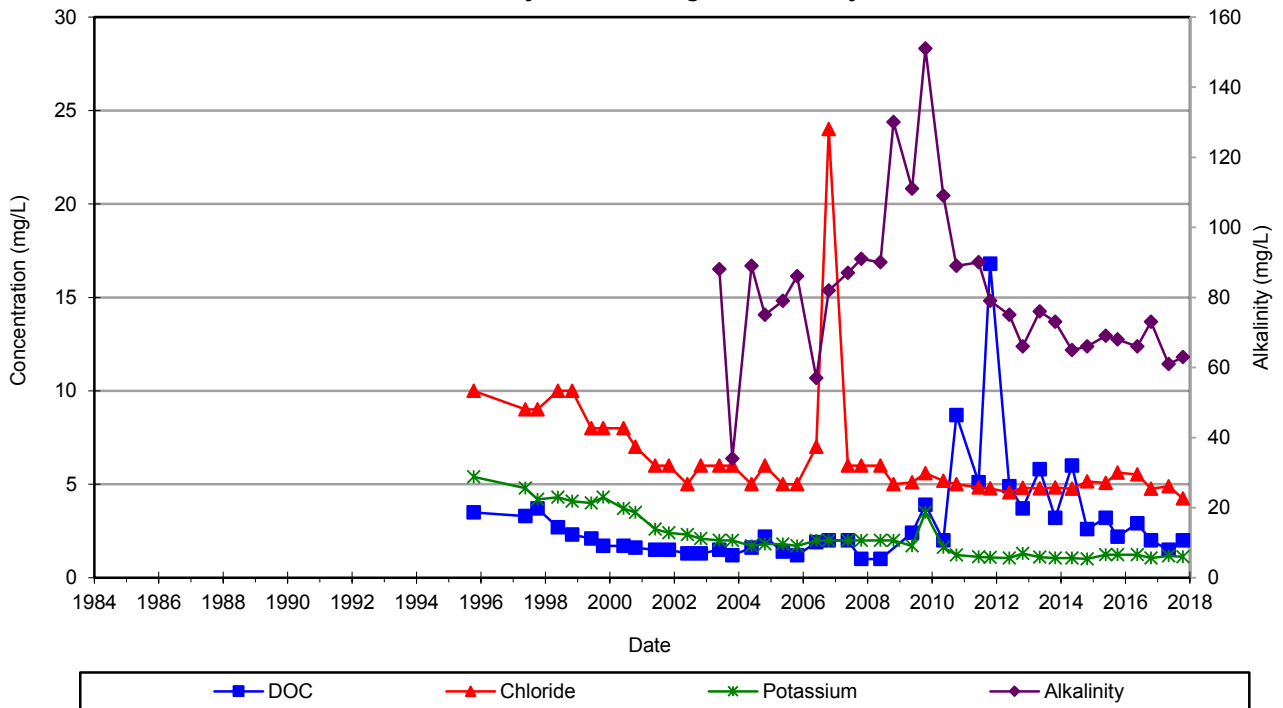
**Figure D-32: Concentration Versus Time
Inter-Till Sands - Monitoring Well 571
Oxford County Waste Management Facility**



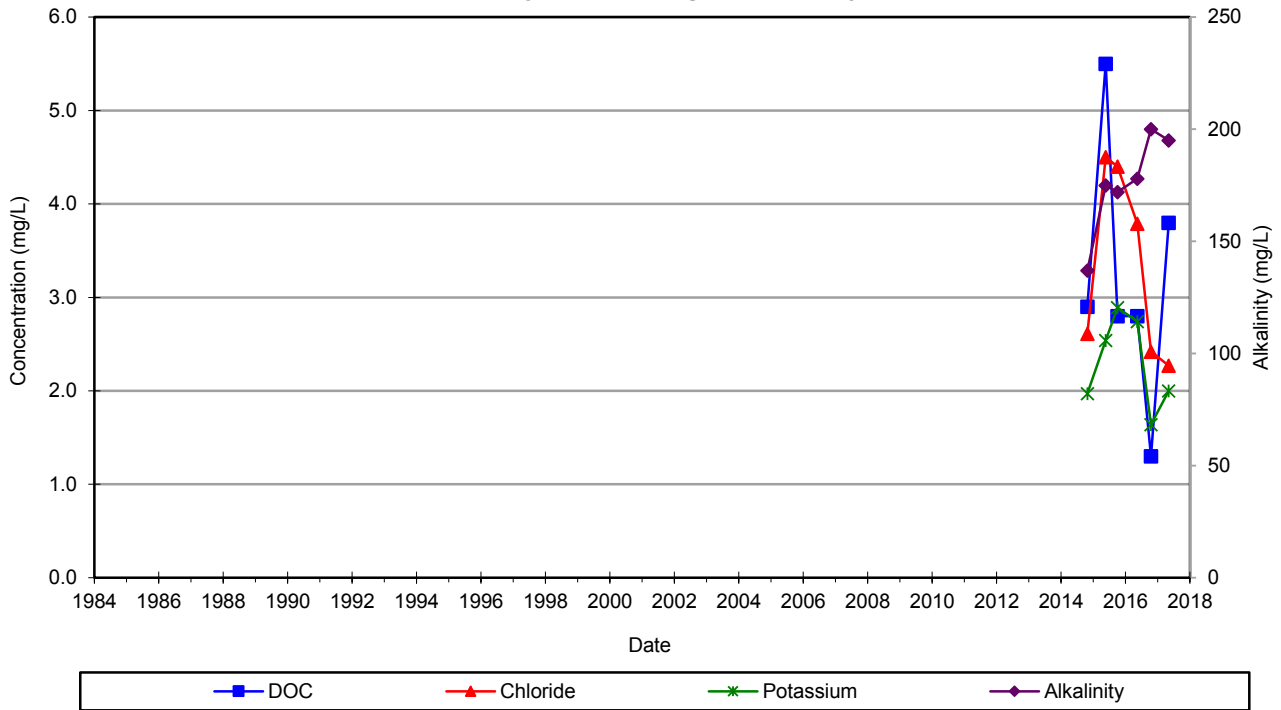
**Figure D-33: Concentration Versus Time
Inter-Till Sands - Monitoring Well 032
Oxford County Waste Management Facility**



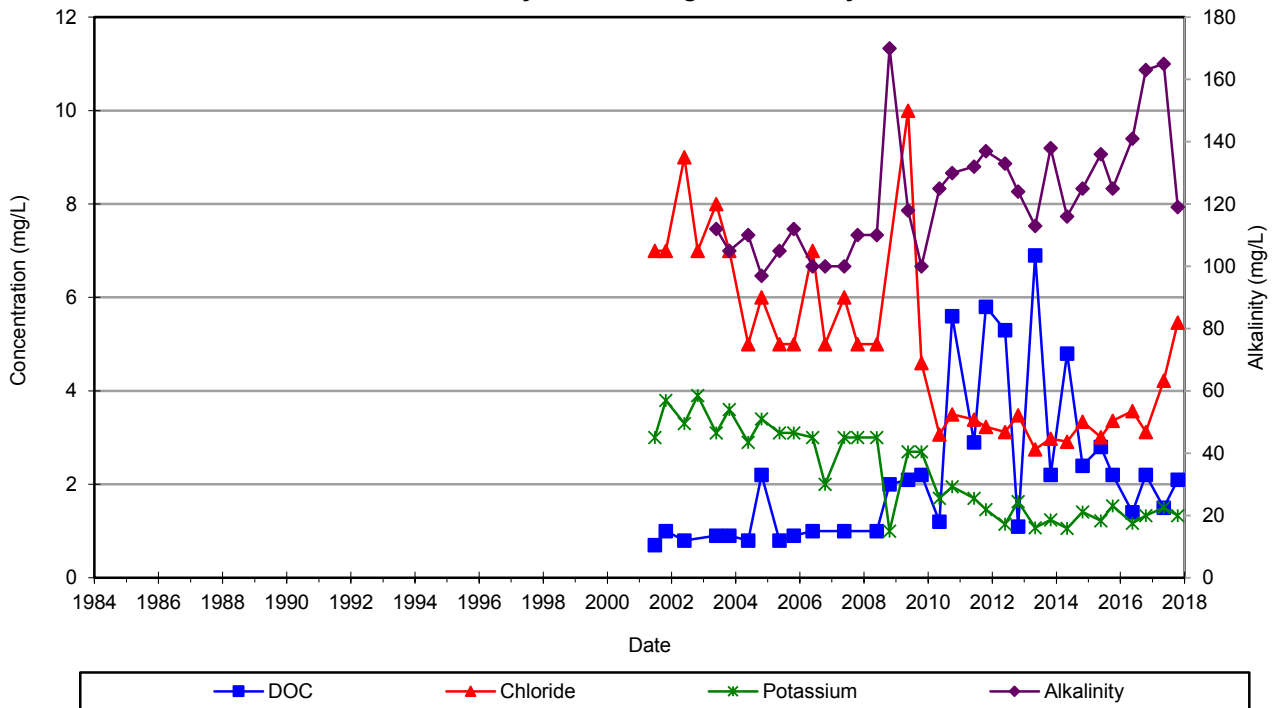
**Figure D-34: Concentration Versus Time
Inter-Till Sands - Monitoring Well 591
Oxford County Waste Management Facility**



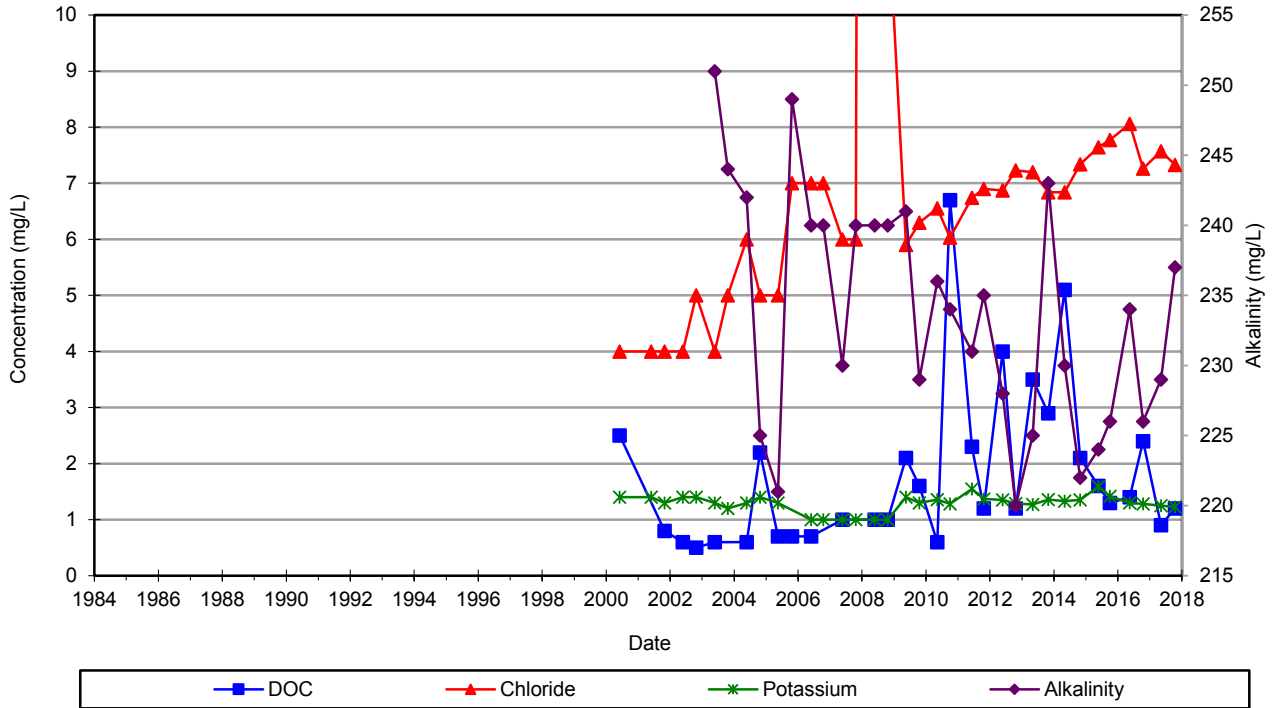
**Figure D-35: Concentration Versus Time
Inter-Till Sands - Monitoring Well 594
Oxford County Waste Management Facility**



**Figure D-36: Concentration Versus Time
Inter-Till Sands - Monitoring Well 998
Oxford County Waste Management Facility**

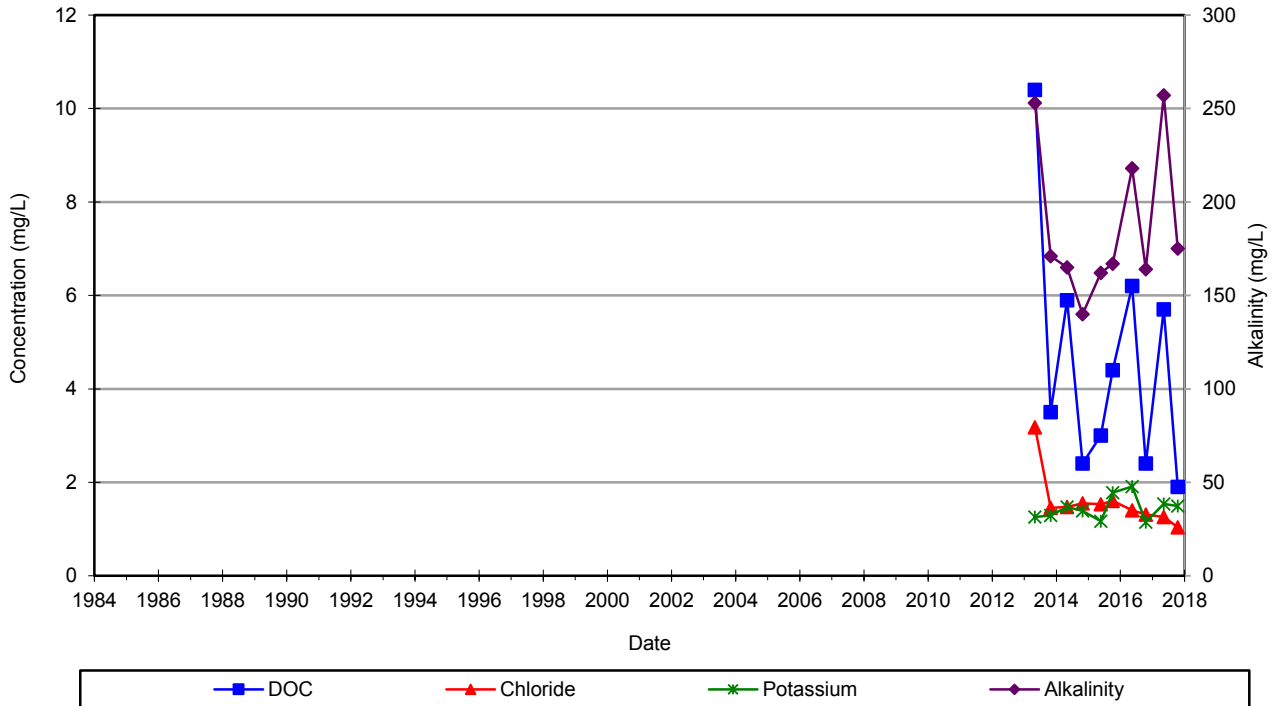


**Figure D-37: Concentration Versus Time
Inter-Till Sands - Monitoring Well 00-03
Oxford County Waste Management Facility**

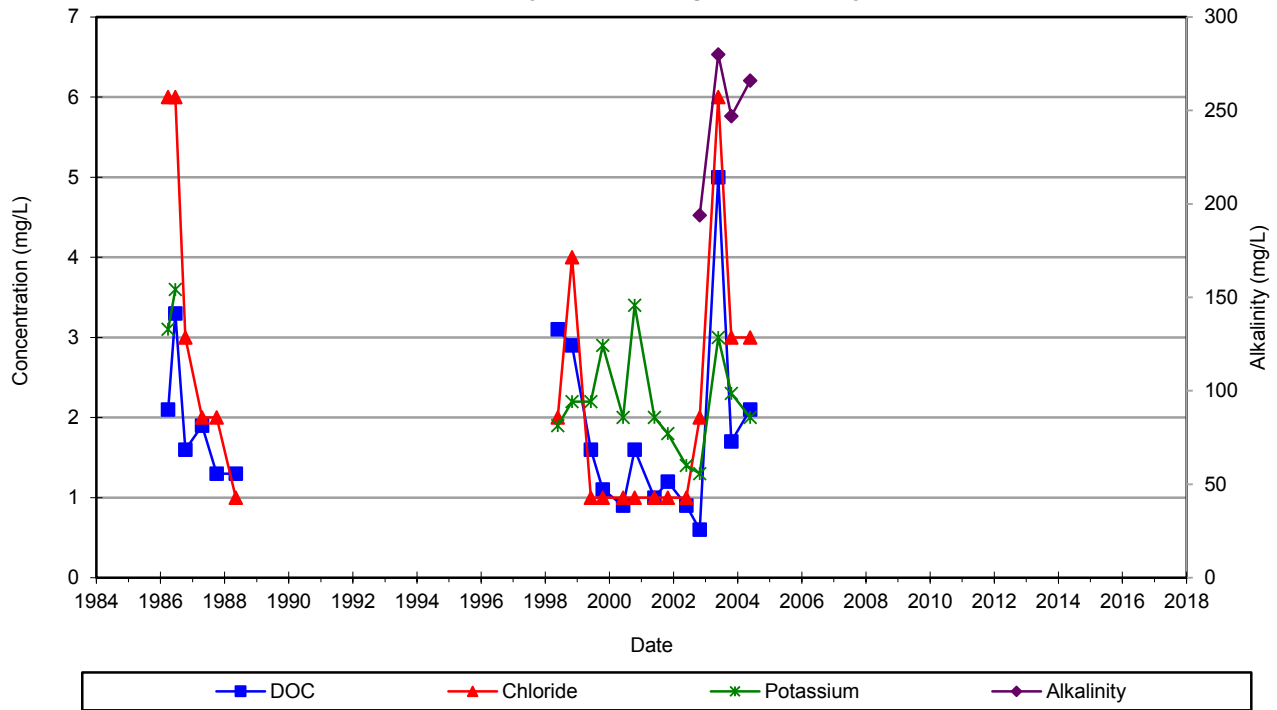


Note: Chloride - May 28/2008 = 122 mg/L

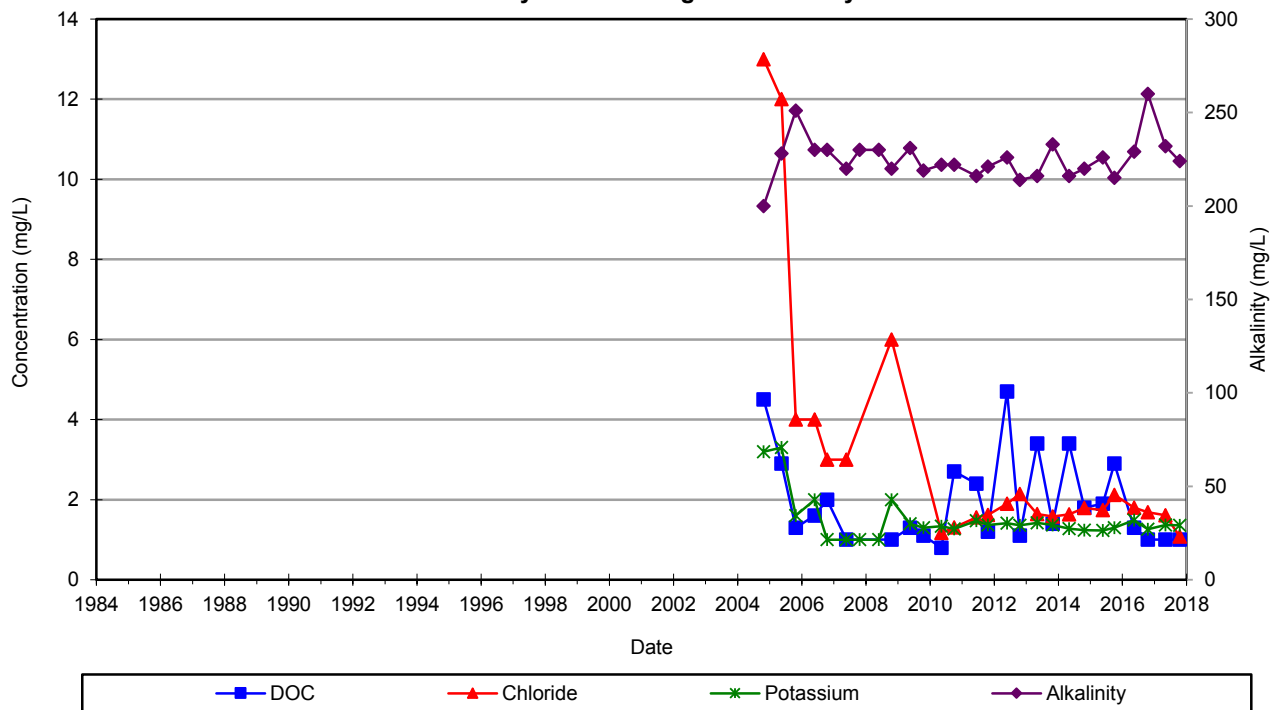
**Figure D-38: Concentration Versus Time
Lower Till - Monitoring Well 022R
Oxford County Waste Management Facility**



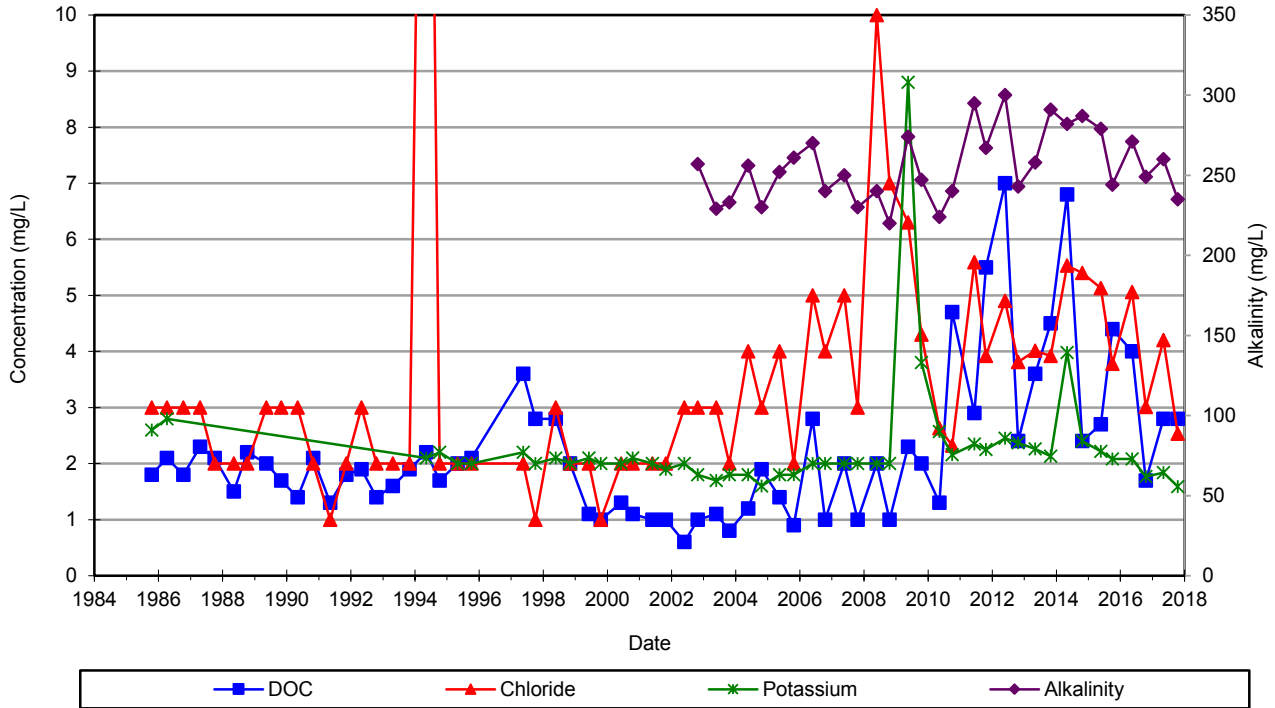
**Figure D-39: Concentration Versus Time
Lower Till - Monitoring Well 101
Oxford County Waste Management Facility**



**Figure D-40: Concentration Versus Time
Lower Till - Monitoring Well 101R
Oxford County Waste Management Facility**

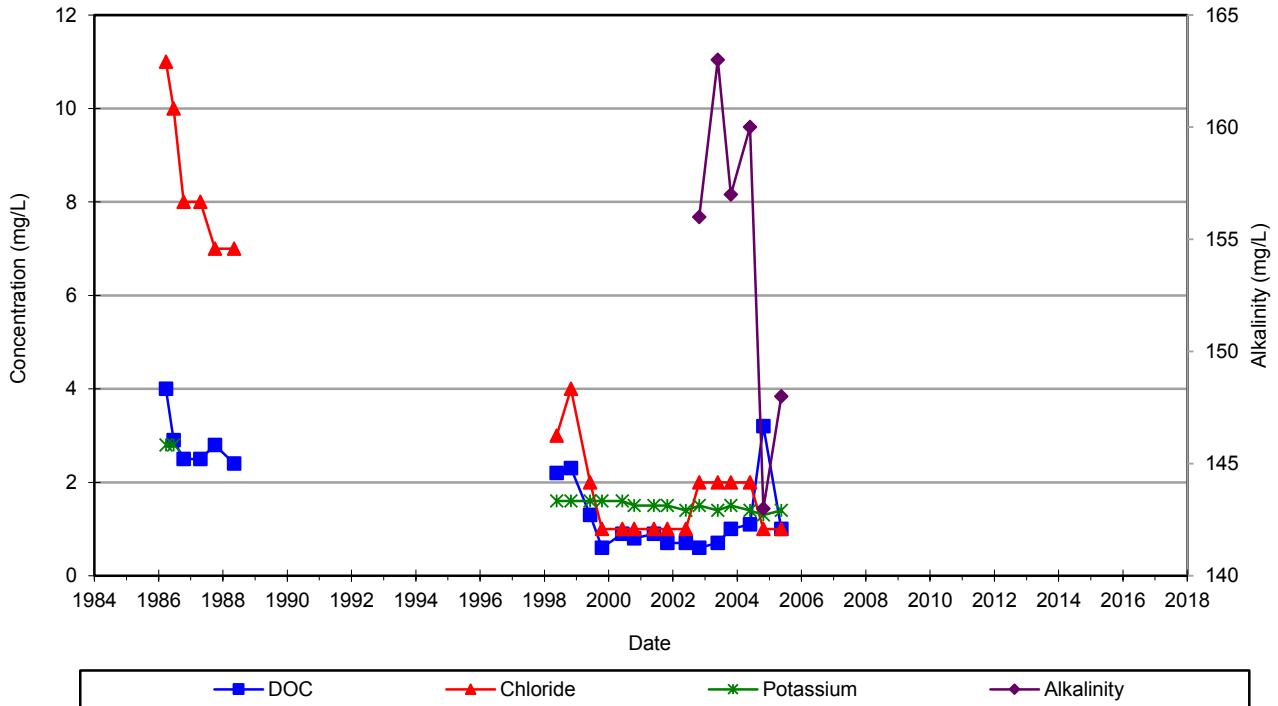


**Figure D-41: Concentration Versus Time
Lower Till - Monitoring Well 191
Oxford County Waste Management Facility**

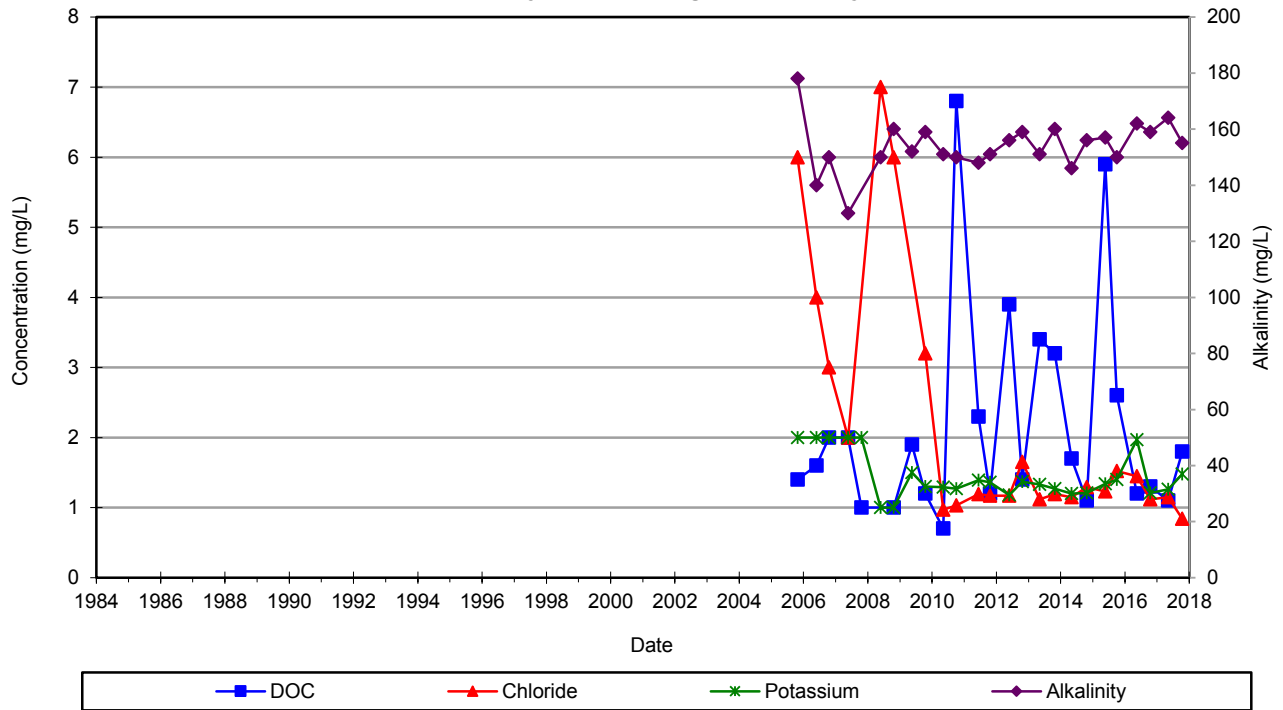


Note: Chloride - May 10/1994 = 23 mg/L

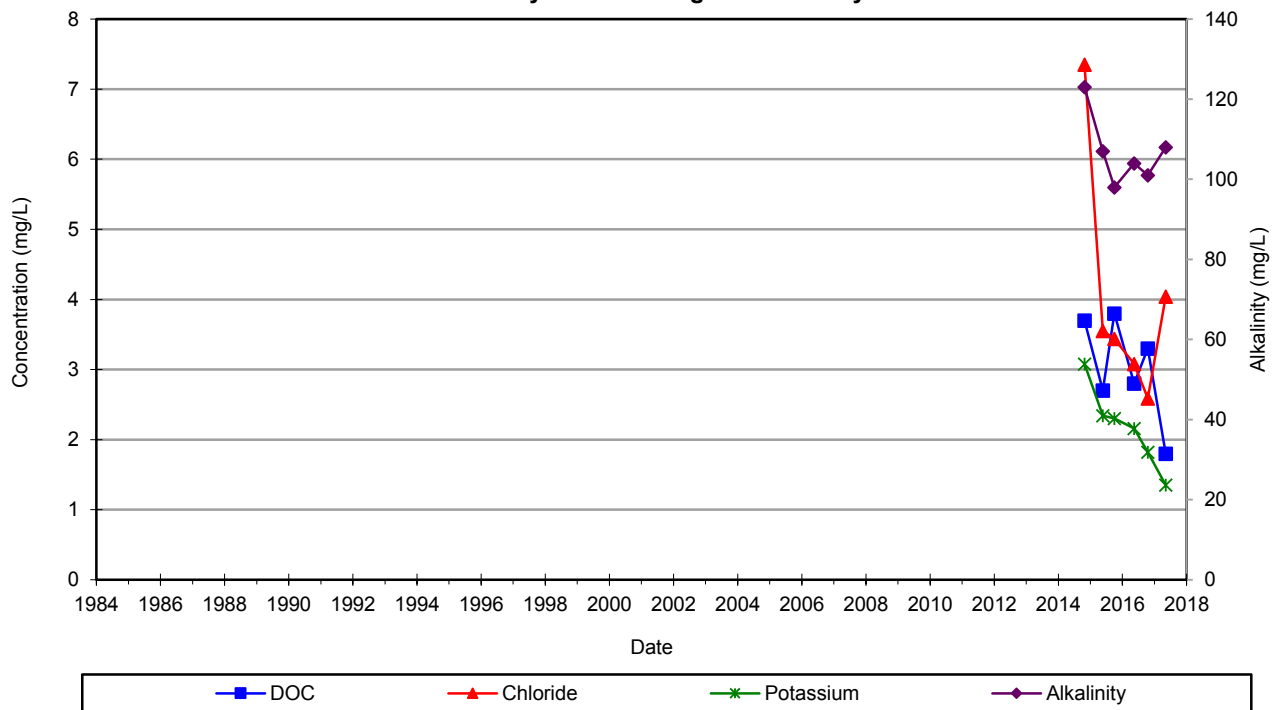
**Figure D-42: Concentration Versus Time
Lower Till - Monitoring Well 231
Oxford County Waste Management Facility**



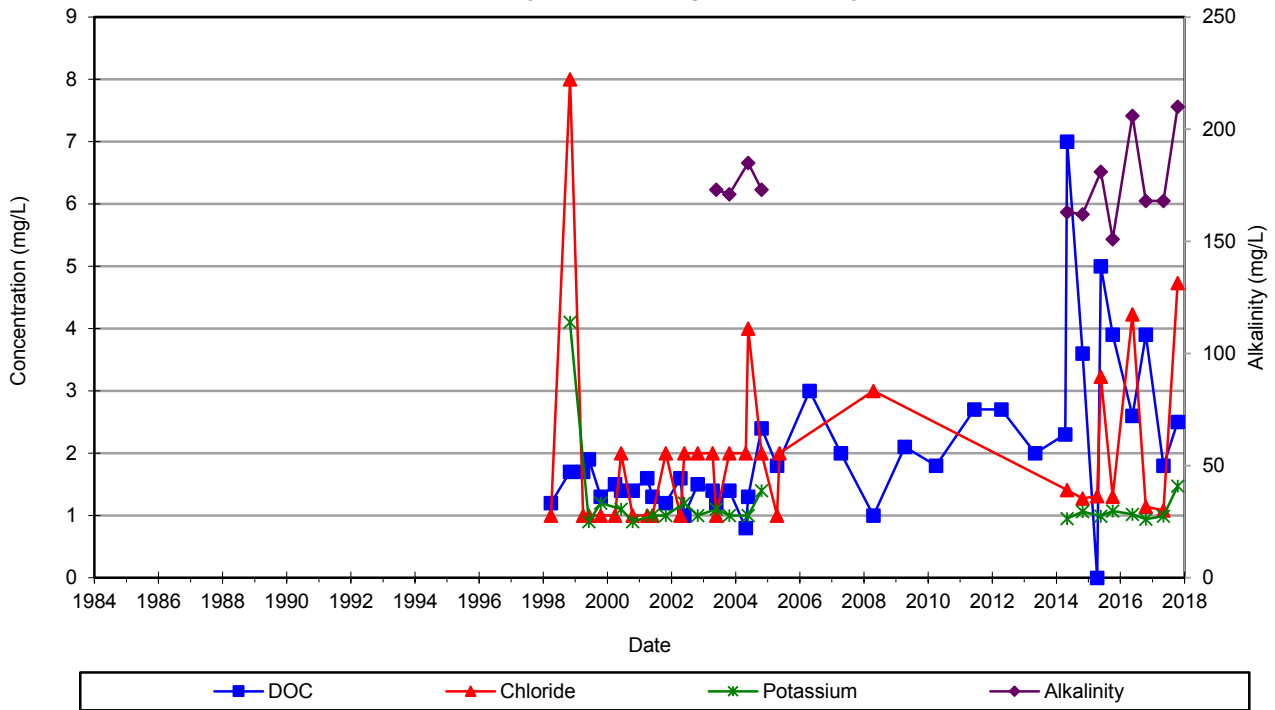
**Figure D-43: Concentration Versus Time
Lower Till - Monitoring Well 231R
Oxford County Waste Management Facility**



**Figure D-44: Concentration Versus Time
Lower Till- Monitoring Well 595
Oxford County Waste Management Facility**



**Figure D-45: Concentration Versus Time
Bedrock - Monitoring Well 999
Oxford County Waste Management Facility**



**Figure D-46: Concentration Versus Time
Refuse - Monitoring Well 03-08
Oxford County Waste Management Facility**

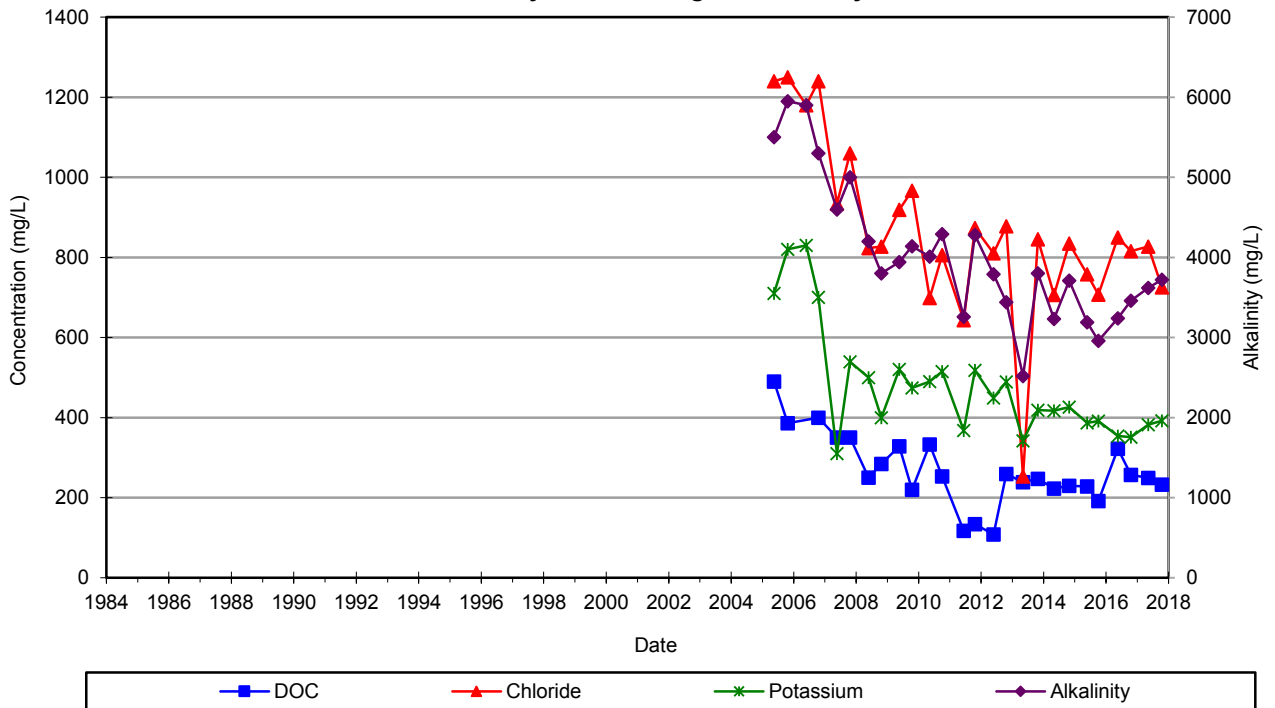


Figure D-47
Chloride Concentration Versus Time - Bedrock
Oxford County Waste Management Facility

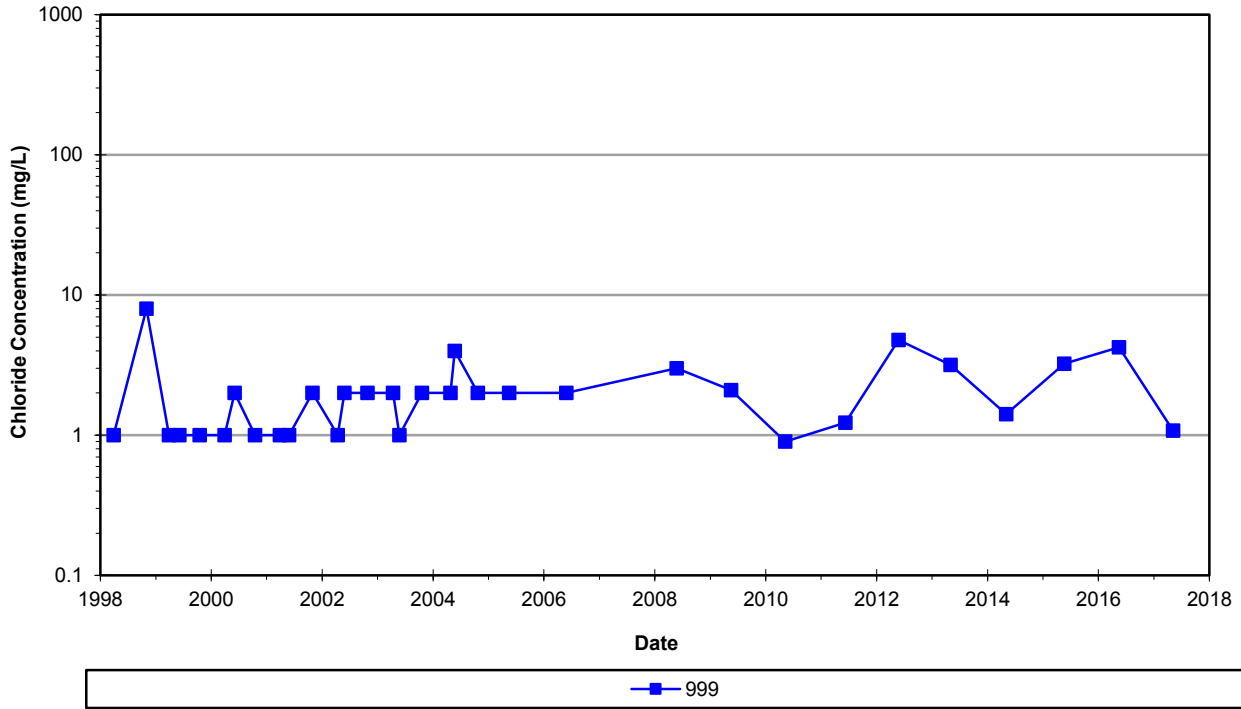


Figure D-48
Chloride Concentraion Versus Time - Lower Till
Oxford County Waste Management Facility

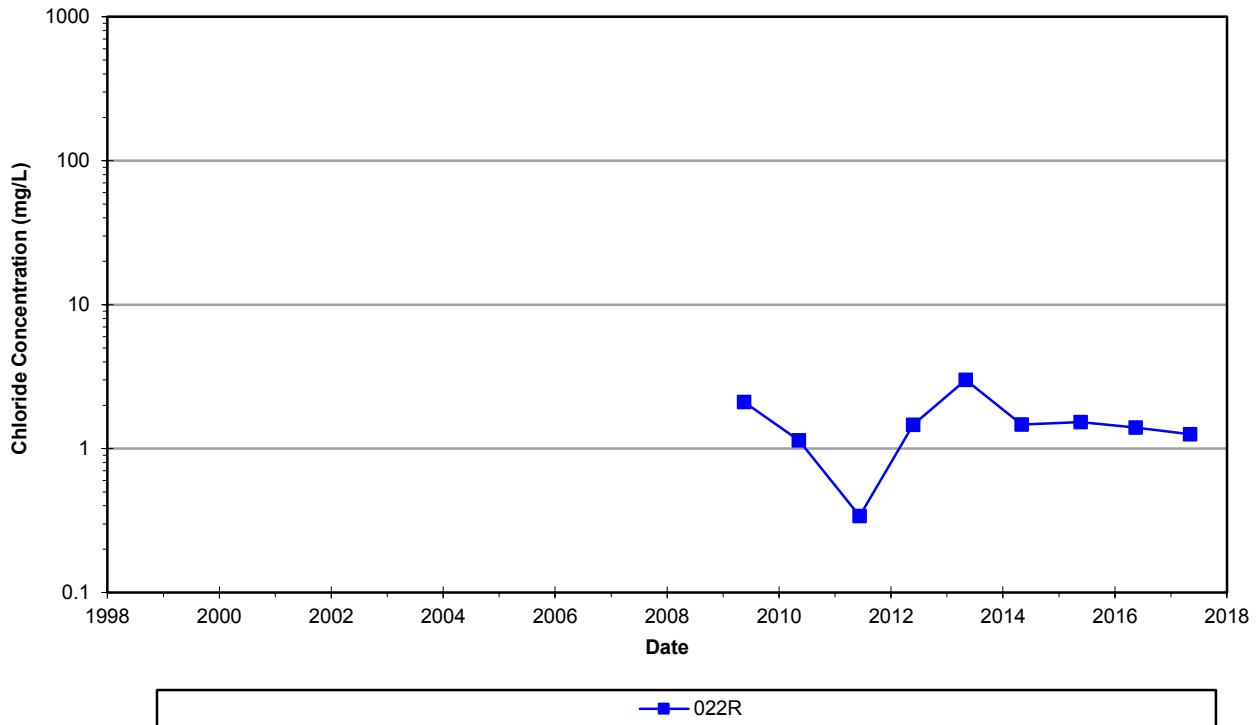


Figure D-49
Chloride Concentration Versus Time - Inter-Till Sands
Oxford County Waste Management Facility

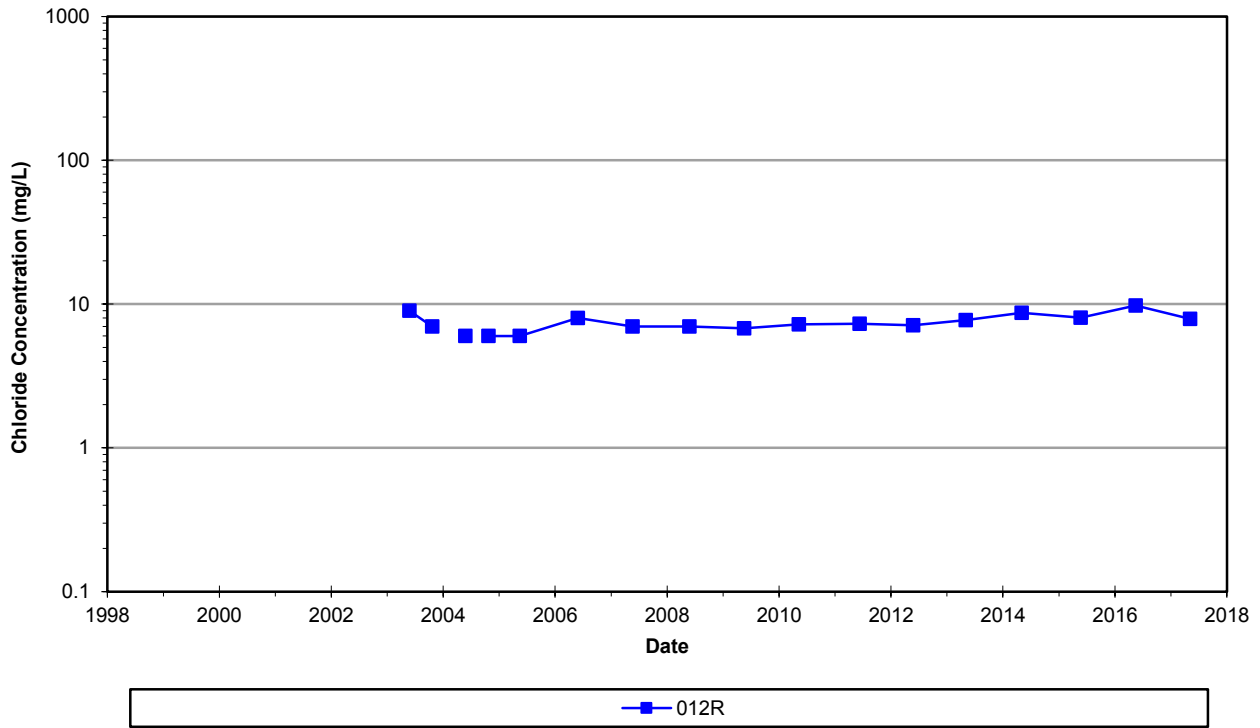


Figure D-50
Chloride Concentration Versus Time - Upper Till
Oxford County Waste Management Facility

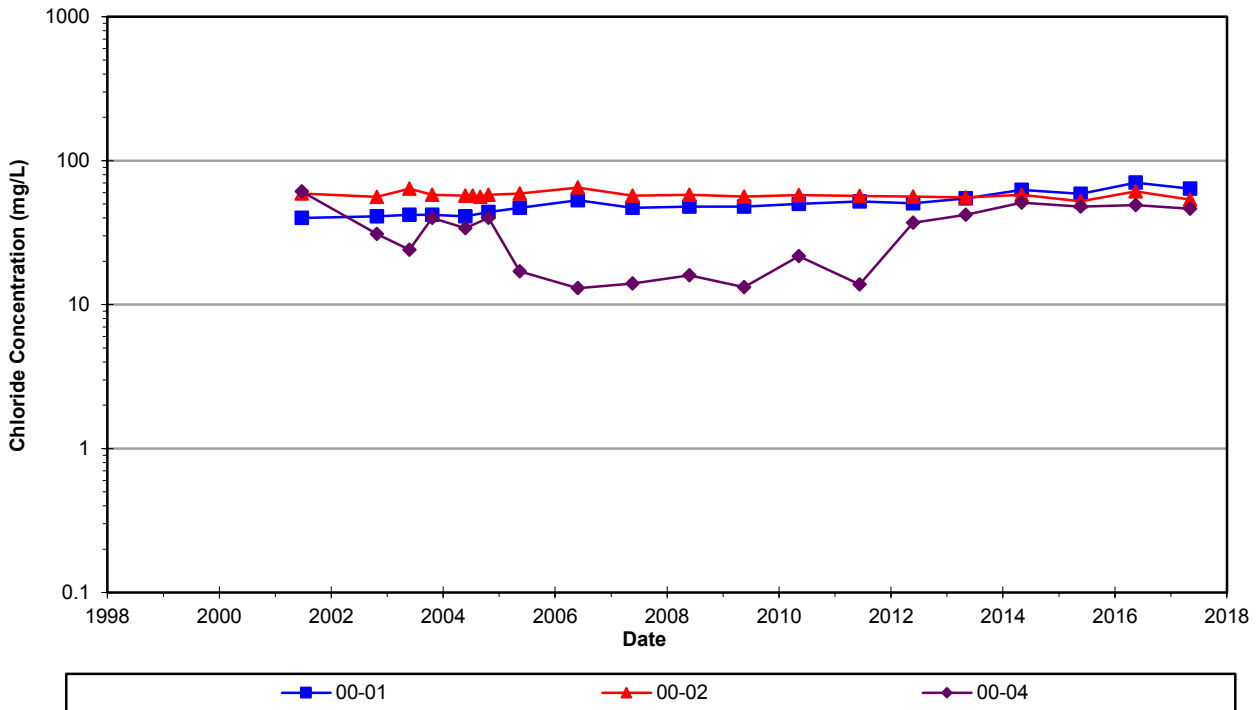


Figure D-51
Chloride Concentration Versus Time - Upper Till
Oxford County Waste Management Facility

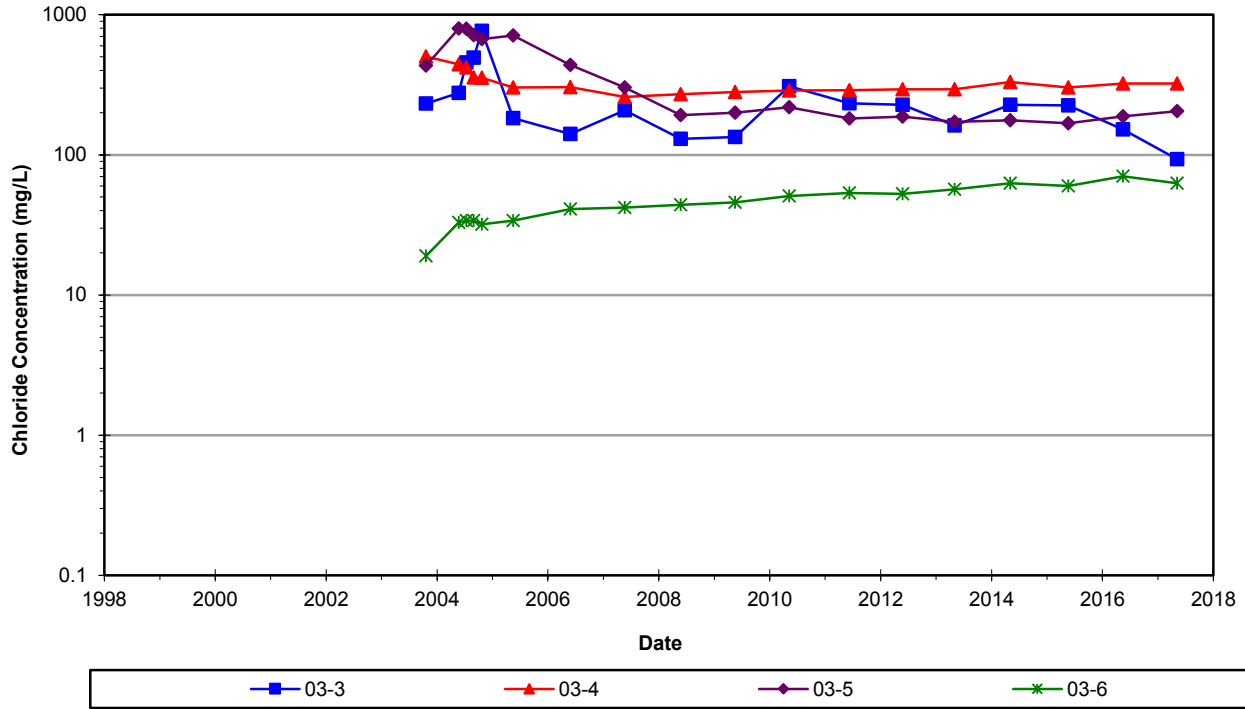


Figure D-52
Chloride Concentration Versus Time - Upper Till
Oxford County Waste Management Facility

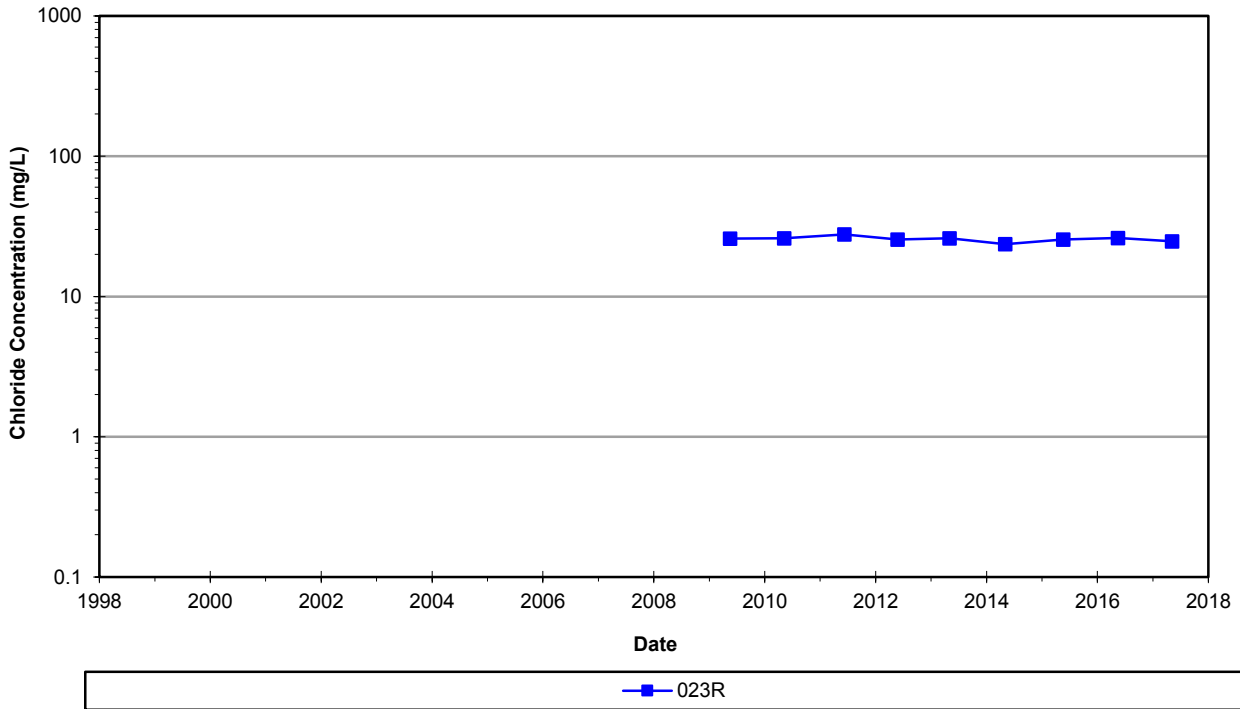


Figure D-53
Chloride Concentration Versus Time - Upper Till, Fractured Till
Oxford County Waste Management Facility

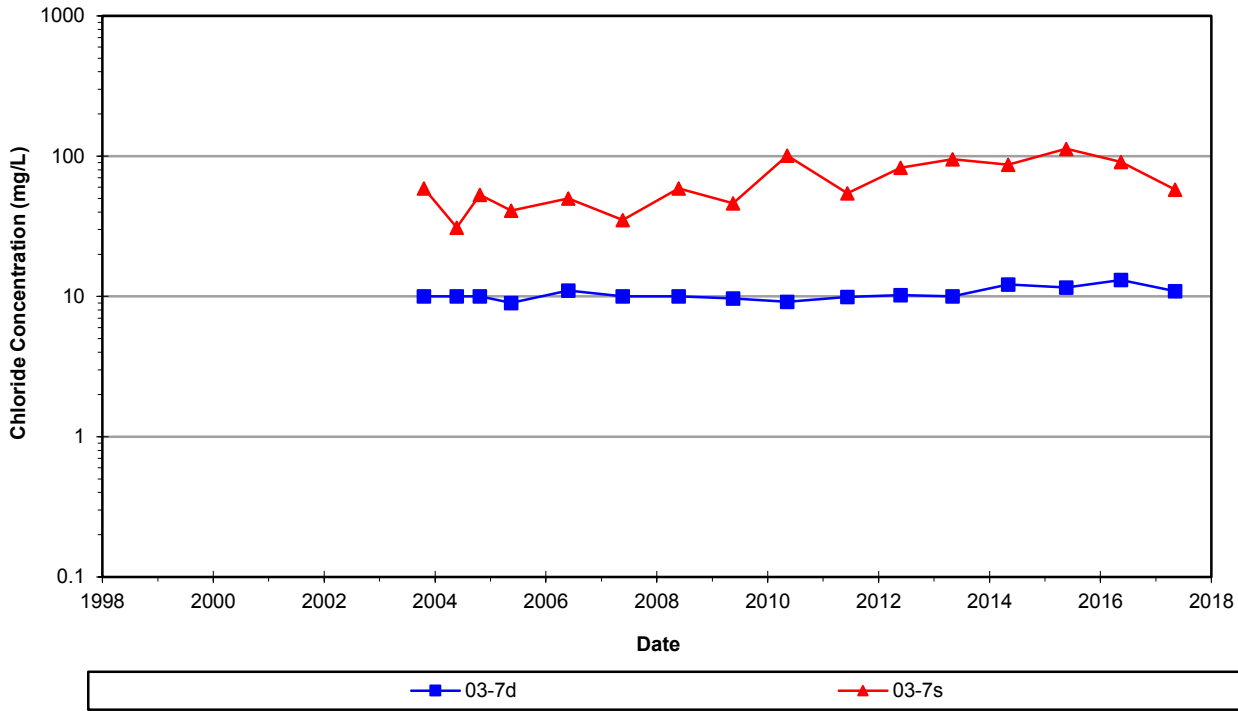


Figure D-54
Chloride Concentration Versus Time - Glaciolacustrine Unit
Oxford County Waste Management Facility

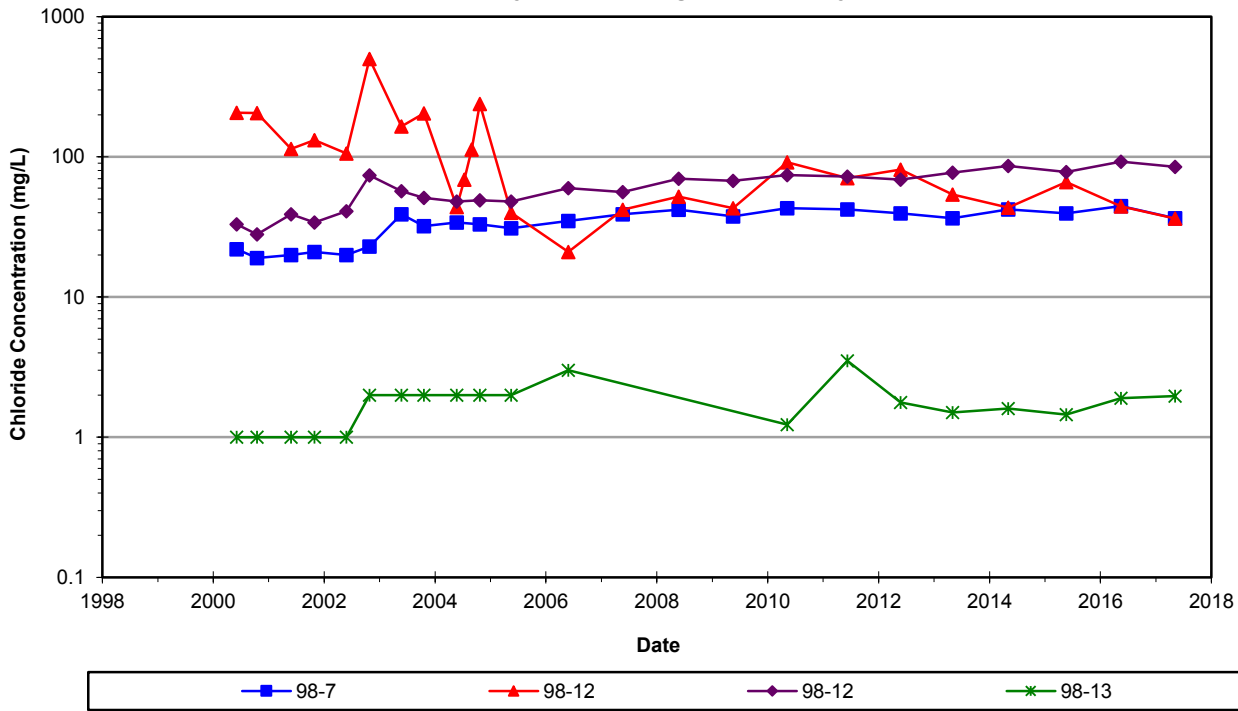


Figure D-55
Chloride Concentration Versus Time
Oxford County Waste Management Facility

