

**TABLE E-3
LEACHATE #1 and LEACHATE WET WELL
W12A LANDFILL**

(Data from September 15, 1977 to January 31 2012 noted as 'LEACHATE1'; following the construction of a leachate pumping station and forcemain 'LEACHATE1' was renamed 'LEACHATE WET WELL'. The sampling sites are from the exact same location and tank)

Average	7.1	9.074	10,486	117	2,313	839	215	1,496	946	293	3,194	2.3	2,325	483	0.3	0.8	545	115	3.8	243	197	261	672	0.009	0.206	4.27	0.021	0.058	0.067	0.194	1	0.180	0.010	1.011	7200	7.16	12.5					
DATE	PH	CONDUCTIVITY (UMHOS/CM)	TDS (MG/L)	SS (MG/L)	BOD (MG/L)	COD (MG/L)	DOC (MG/L)	PHENOLS (UG/L)	CI (MG/L)	SO ₄ (MG/L)	ALKALINITY (MG/L)	Total P (MG/L)	HARDNESS (MG/L)	NITROGEN AS N				Fe (MG/L)	Mn (MG/L)	Ca (MG/L)	Mg (MG/L)	K (MG/L)	Na (MG/L)	As (MG/L)	Ba (MG/L)	B (MG/L)	Cd (MG/L)	Cr (MG/L)	Cu (MG/L)	Pb (MG/L)	Hg (UG/L)	Ni (MG/L)	Se (MG/L)	Zn (MG/L)	Field Cond us/cm	Field pH	Field Temp. C					
														NH ₃ (MG/L)	NO ₂ (MG/L)	NO ₃ (MG/L)	TKN (MG/L)																									
15/Sep/77	6.0	710	471		45			31	25				376					1.6	0.3																							
4/Oct/77	5.9	3,210	3,340		480			1,640	150				8,200			48	5.2	3.8																								
1/Feb/78	6.1	5,650	5,230		4,320			320	340	300				102	0.2	0.3		175.0	8.1				320																			
1/Mar/78	5.8	8,400	9,222		6,480			725	420					150	0.1	1.1	180	230.0	2.0																							
4/Apr/78	5.9	2,060	2,310		1,020			750	90	85				29	0.2	0.0		31	47.5	1.8																						
9/May/78	5.8	5,400	5,991		5,280			300	300	250			2,273				130	210.0	5.7																							
5/Jun/78	5.8	7,250	8,537		6,720			4,150	400	190			3,385	165	0.3	1.7	200	225.0	8.7																							
22/Aug/78	5.9	8,450	9,968		8,400			3,500	520	485			3,781	190	0.1	1.5	220	360.0																								
19/Sep/78	6.0	6,500	7,222		5,880			3,000	430	360			3,489	130	0.1	0.0	165	170.0	8.6																							
24/Oct/78	6.3	11,400	9,920		8,600			6,300	830	750			5,393	316	0.1	0.0	355	380.0																								
8/Nov/78	6.1	8,900	9,450		8,500			3,700	640	620			4,105	251	0.1	0.0	275	361.0																								
13/Dec/78	6.2	7,400	9,196		8,400			3,200	505	84			3,220	175	0.1	0.6	265	314.0	22.0																							
9/Jan/79	6.3	11,500	14,488		12,000			5,500	760	620			4,994	310	0.1	0.3	400	608.0	28.1																							
13/Feb/79	6.0		12,200		11,800			600	955	820			6,200	390	0.1	0.3	505	600.0	22.9																							
22/Mar/79	6.2	6,700	8,950		6,700			3,900	455	320			2,991	144	0.4	0.1	183	304.0	18.2																							
23/May/79	6.2	9,550	9,800		10,800			4,800	33	460			4,620	260	0.1	0.4	310	236.0	16.8																							
7/Aug/79	5.8	9,450	14,500		12,900			3,400	590	490			4,660	245	0.1	0.6	285	445.0	23.9																							
26/Sep/79	5.8	13,800	16,910		20,400			6,000	1,020	1,810			6,059	420			420	660.0	28.4																							
29/Oct/79	5.8	12,250	14,296		14,700			8,000	860	720			5,684	365	0.1	0.2	415	710.0	29.8																							
15/Nov/79	5.9	9,400	12,594		9,000			4,100	690	460			4,338	350	0.3	0.4	360	500.0	24.0																							
10/Dec/79	6.0	7,850	10,141		8,100			3,200	550	410			3,390	218	0.1	0.1	262	391.0	14.4																							
2/Jan/80	6.0	7,400	8,450		11,400			3,600	435	315			3,000	202	0.1	0.1	208	367.0	12.8																							
5/Feb/80	5.9	13,000	17,106		17,400			6,250	1,070	740			6,847	460	0.0	0.3	640	660.0	25.8																							
25/Mar/80	6.0	6,700	7,579		4,800			2,750	550	260			2,929	165	0.1	0.2	220	792.0	9.0																							
29/Apr/80	5.9	8,900	10,327		8,700			3,950	680	430			3,989	230	0.0	0.1	785	463.0	16.0																							
27/May/80	5.9	10,700	12,321		20,400			3,900	780	490			3,200	315	0.3	0.1	480	280.0	19.4																							
10/Jun/80	5.9	8,700	9,690		13,800			3,320	620	580			3,897	248	0.9	0.2	370	420.0	15.9																							
23/Jul/80	5.9	7,600	8,552		7,500			2,580	560	290			3,024	205	0.1	0.1	220	349.0	4.9																							
13/Aug/80	6.0	9,700	11,225		4,200			4,350	630	340			4,004	278	0.1	0.2	320	341.0	16.0																							
24/Sep/80	6.0	9,100	11,086		9,300			3,380	1,260	370			4,336	285	0.0	0.1	330	405.0	13.9																							
14/Oct/80	6.1	11,500	14,674		12,900			4,800	880	455			5,209	395	0.1	0.1	410	421.0	15.5																							
19/Nov/80	6.0	23,400	18,586		23,400			6,600	1,140	900			6,214	740	0.1	0.6	810	619.0	21.2																							
9/Dec/80	5.9	10,900	11,512		11,400			2,280	725	545			4,270	525	0.1	1.6	610	277.0	11.2																							
12/Jan/81	6.0	16,500	21,738		17,700			7,250	1,150				9,032	790	0.1	0.7	1,060	570.0	30.6																							
25/Feb/81	6.3	6,700	6,829		5,100			2,380	370				2,282	280	0.1	0.6	330	212.0	8.9																							
9/Mar/81	6.1	11,500	12,665		12,000			4,800	800					540	0.1	0.6	600	517.0	19.0																							
1/Apr/81	6.1	10,100	11,567		9,000			400	575				3,871	445	0.3	0.0	510	404.0	15.6																							
12/May/81	6.2	10,310	11,831		9,600			4,200	700				4,320	470	0.2	0.4	1,670	473.0	16.3																							
8/Jun/81	6.1	12,450	14,402		9,900			4,800	1,200				4,939	580	0.1	0.2	910	551.0	19.3																							
22/Jul/81	5.9	11,900			5,750			5,750	1,112				3,429					546.0																								
18/Aug/81	5.9	9,800	9,665		8,100			5,100	1,029				3,100					530.0																								
29/Sep/81	5.8	8,600			8,600			3,475	801				3,128					380.0																								
28/Oct/81	5.8	4,900			4,900			775	651				1,710					219.0																								
3/Nov/81	5.8	9,000			1,475			641					2,895					132.0																								
21/Dec/81	6.2	7,600			3,100			796					1,725					129.0																								
18/Jan/82	6.2	5,450			3,200			431					2,660																													

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W12A LANDFILL

(Data from September 15, 1977 to January 31 2012 noted as 'LEACHATE1'; following the construction of a leachate pumping station and forcemain 'LEACHATE1' was renamed 'LEACHATE WET WELL'. The sampling sites are from the exact same location and tank)

Average	7.1	9,074	10,486	117	2,313	839	215	1,496	946	293	3,194	2.3	2,325	483	0.3	0.8	545	115	3.8	243	197	261	672	0.009	0.206	4.27	0.021	0.058	0.067	0.194	1	0.180	0.010	1.011	7200	7.16	12.5						
DATE	PH	CONDUCTIVITY (UMHOS/CM)	TDS (MG/L)	SS (MG/L)	BOD (MG/L)	COD (MG/L)	DOC (MG/L)	PHENOLS (UG/L)	CI (MG/L)	SO ₄ (MG/L)	ALKALINITY (MG/L)	Total P (MG/L)	HARDNESS (MG/L)	NITROGEN AS N				Fe (MG/L)	Mn (MG/L)	Ca (MG/L)	Mg (MG/L)	K (MG/L)	Na (MG/L)	As (MG/L)	Ba (MG/L)	B (MG/L)	Cd (MG/L)	Cr (MG/L)	Cu (MG/L)	Pb (MG/L)	Hg (UG/L)	Ni (MG/L)	Se (MG/L)	Zn (MG/L)	Field Cond us/cm	Field pH	Field Temp. C						
														NH ₃ (MG/L)	NO ₂ (MG/L)	NO ₃ (MG/L)	TKN (MG/L)																										
18/Sep/85	6.9	16,900			17,640			7,800	1,293				4,140					381.0	12.3																								
22/Oct/85	6.9	12,000			11,910			3,840	1,396				4,320				345.0	10.7																									
18/Nov/85	6.3	9,500			9,810			4,460	1,396				4,603				184.0	7.4																									
11/Feb/86	7.0	12,600			9,540			7,150	1,187				2,222				517.0	10.1																									
30/Apr/86																	103.0	2.1																									
12/May/86	7.0	13,600			7,788			3,675	1,230				2,986				227.0	6.7																									
9/Jun/86	7.1	13,600			7,188			2,933	1,180				2,392				169.0	4.7																									
28/Jul/86	7.1	15,700			8,073			3,300	1,160				2,465				161.0	4.8																									
20/Oct/86	7.2	12,000			3,896			1,480	1,603				4,408				347.0	2.1																									
3/Nov/86	7.3	11,000			4,122			1,640	1,758				1,171				438.0	2.5																									
1/Dec/86	7.1	10,000			3,462			1,980	1,251				2,126				93.8	2.4																									
12/Jan/87	7.1																121.0	2.7																									
9/Feb/87	7.3	11,500			3,228			1,725	1,130				2,451				79.4	2.2																									
9/Mar/87	6.9	6,550			2,208			1,100	730				1,653	548			110.0	2.4																									
28/Apr/87	7.4	11,600			3,876			1,620	1,282				2,432	914			161.0	2.4																									
23/Jun/87	7.6	13,000			1,944			1,560	1,654				1,820				127.0	0.5																									
21/Jul/87	7.5	16,800			2,826			1,213	1,290				2,370				49.3	0.8																									
17/Aug/87	7.3																88.6	2.2																									
16/Sep/87	7.3	13,900			3,324			1,375	1,260				2,109				81.3	1.8																									
27/Oct/87	7.1	9,050			2,634				1,448				1,736				59.6	1.5																									
12/Nov/87	7.3	10,200			3,594				2,223				2,161				104.0	1.5																									
1/Dec/87	6.9				2,754												68.5	1.8																									
12/Jan/88	7.2				2,514												97.6	2.0									0.030	0.070	0.050	0.200			0.340			3.900							
9/Feb/88	7.4	11,200			2,394				1,230				1,329				84.1	1.9									0.030	0.000	0.060	0.300			0.320			3.500							
14/Mar/88	7.1				1,848												90.7	2.1								0.040	0.080	0.080	0.200			0.330			2.900								
12/Apr/88	7.1				3,120												10.6	2.2								0.070	0.120	0.100	0.200			0.350											
24/May/88	7.1	9,600			2,988			1,250	1,913				1,347				90.7	2.1								0.050	0.200	0.110	0.300			0.450			4.300								
23/Jun/88	7.3	11,600			960			960	1,965				1,153				56.5	1.6								0.050	0.000	0.170	0.000			0.270			3.200								
27/Jul/88	7.2	15,900			2,328			970	1,361				1,243				81.5	1.7								0.040	0.110	0.190	0.300			0.490			3.800								
11/Aug/88	7.2				2,154												44.7	1.1								0.030	0.000	0.090	0.200			0.430			3.600								
19/Sep/88	7.2	14,200			2,334			1,220	1,304				1,116				67.8	1.7								0.040	0.000	0.090	0.300			0.480			4.100								
18/Oct/88	7.1	11,500			1,227			860	1,602				1,098				46.8	1.3								0.030	0.070	0.090	0.200			0.230			2.200								
17/Nov/88	7.3	8,950			2,007			1,758	860				977				73.4	2.0								0.090	0.000	0.190	0.300			0.430			3.800								
12/Dec/88	7.1				2,064												35.5	1.6								0.000	0.000	0.030	0.200			0.350			1.800								
23/Jan/89	7.1																47.4	1.4								0.030	0.000	0.030	0.000			0.510			2.600								
13/Feb/89	7.1																16.9	1.4								0.020	0.000	0.050	0.000			0.380			2.600								
13/Mar/89	7.0																67.1	1.1								0.000	0.000	0.000	0.000			0.200			1.900								
10/Apr/89	7.3																50.6	1.1								0.000	0.000	0.040	0.000			0.000			0.300								
23/May/89	7.2																72.2	1.7								0.080	0.000	0.000	0.000			0.170			3.200								
19/Jun/89	7.0																43.0	1.4								0.000	0.000	0.000	0.000			0.340			2.000								
27/Jul/89	7.2																40.7	1.3								0.020	0.000	0.070	0.000			0.310			3.600								
15/Aug/89	7.3																0.9									0.020	0.000	0.070	0.000			0.290			2.300								
14/Sep/89	7.2																0.9									0.000	0.000	0.060	0.000			0.370			1.900								
10/Oct/89	7.3																																										
7/Nov/89	7.3	11,000			1,137			660	1,229								46.6	1.5									0.010	0.100	0.110	0.300			0.270			2.100							
4/Dec/89	7.2				1,522			6									46.6	1.4								0.020	0.130	0.080	0.400			0.220			1.400								
5/Feb/90	6.9	10,100			1,434			730	1,133				1,828				39.6	1.6								0.030	0.100	0.100	0.300			0.330			1.300								
5/Mar/90	7.0				1,587												43.5	1.4								0.030	0.130	0.140	0.300			0											

**TABLE E-4
LEACHATE #2
W12A LANDFILL**

(In January 2012 with the completed construction of a leachate pumping station and forcemain at the location of leachate tank 'LEACHATE 1' at that time renamed to 'LEACHATE WET WELL', sampling at the other leachate tanks was concluded)

Average		7.1	11,158	651	1,505	3,514	669	437	1,618	360	3,694	3.5	1,825	521	0.6	1.6	632	31	2	370	194	321	1,151	0.411	0.019	0.28	3.32	0.025	0.070	0.075	0.205	0.825	0.2	0.026	2.911	10,026	6.9	
DATE	PH	CONDUCTIVITY (UMHOS/CM)	SS (MG/L)	BOD (MG/L)	COD (MG/L)	DOC (MG/L)	PHENOLS (UG/L)	CI (MG/L)	SO ₄ (MG/L)	ALKALINITY (MG/L)	Total P (MG/L)	HARDNESS (MG/L)	NITROGEN AS N				Fe (MG/L)	Mn (MG/L)	Ca (MG/L)	Mg (MG/L)	K (MG/L)	Na (MG/L)	CYANIDE (MG/L)	As (MG/L)	Ba (MG/L)	B (MG/L)	Cd (MG/L)	Cr (MG/L)	Cu (MG/L)	Pb (MG/L)	Hg (uG/L)	Ni (MG/L)	Se (MG/L)	Zn (MG/L)	Field Cond (us/cm)	Field pH	Field Temp. C	
													NH ₃ (MG/L)	NO ₂ (MG/L)	NO ₃ (MG/L)	TKN (MG/L)																						
9/Apr/91	7.1			1,851														33	1.8									0.040	0.090	0.100	0.400		0.320		1.800			
29/May/91	7.0	13,800		6,540			580	2,637				367					41	1.6										0.020	0.120	0.110	0.300		0.380		2.700			
17/Jul/91	7.6	15,300		4,128			1,450	1,923				5,973					40	4.6										0.040	0.110	0.110	0.230		0.230		2.400			
6/Aug/91	7.3			3,594													43	3.5										0.060	0.110	0.100	0.440		0.290		1.800			
13/Aug/91	7.7	13,500		3,228			4,080	1,905				4,909					32	3.0										0.030	0.080	0.130	0.230		0.130		2.200			
23/Sep/91	7.2	10,300		3,228								6,101					35	2.6										0.040	0.060	0.130	0.300		0.210		1.200			
28/Oct/91	7.3	11,600		3,414			720	1,962				4,245					48	3.3										0.060	0.090	0.090	0.550		0.190		2.200			
11/Nov/91	6.6			987												29	2.2											0.020	0.040	0.060	0.240		0.120		0.550			
9/Dec/91	6.9			984												15	1.2											0.040	0.070	0.070	0.320		0.210		0.670			
2/Jan/92	6.9			984												15	1.2											0.040	0.070	0.070	0.320		0.210		0.670			
16/Feb/92	6.7	5,010		204			166	738				1,342				14	0.0										0.010	0.000	0.050	0.190		0.000		0.210				
4/Mar/92	7.6			924												17	1.5										0.030	0.060	0.070	0.280		0.100		1.500				
6/Apr/92	7.0			535												17	1.0										0.030	0.070	0.100	0.230		0.180		0.680				
4/May/92	7.0	8,600		374			377	74				5,328				22	0.7										0.010	0.060	0.060	0.330		0.170		0.170				
21/May/92	7.1			377			377	74																														
14/Jun/92	7.1	9,010		389			308	130				2,177				21	0.6											0.030	0.060	0.050	0.240		0.190		0.320			
23/Jul/92	6.9	12,450		209			158	2,200				1,422				13	0.5										0.030	0.060	0.040	0.180		0.130		0.320				
19/Aug/92	6.9			284												15	0.5										0.010	0.070	0.030	0.100		0.150		0.480				
8/Sep/92	6.9	11,400		1,314			647					2,996				22	1.4										0.020	0.070	0.060	0.110		0.100		0.490				
2/Nov/92	6.9			1,800			1,800	746																														
25/Nov/92	6.7	10,150		7,188			2,950	1,490				2,581				114	6.7	257									0.060	0.150	0.100	0.270		0.300		12.800				
10/Dec/92	6.9			5,280												113	8.5										0.080	0.150	0.170	0.400		0.420		13.800				
7/Jan/93	6.5			4,128												56	3.4										0.010	0.080	0.130	0.230		0.180		4.200				
15/Feb/93	7.4	12,800		5,256			2,600	1,920	56			3,197				138	2.7	540	449			1,260					0.040	0.090	0.070	0.230		0.230		3.440				
9/Mar/93	6.6			2,034												45	2.1										0.010	0.040	0.050	0.140		0.080		1.200				
19/Apr/93	6.7			5,454												30	4.5										0.050	0.110	0.090	0.410		0.290		5.000				
27/May/93	7.0	13,500		4,176				1,980				2,723				670											0.050	0.090	0.120	0.470		0.320		4.700				
28/Jun/93	6.7			4,944												620											0.030	0.130	0.080	0.260		0.280		5.500				
26/Jul/93	6.9	13,100		5,820			2,040	1,863				3,260				692		689	374								0.040	0.150	0.120	0.260		0.320		8.900				
11/Aug/93	6.9			8,880												772																						
16/Sep/93	7.1	1,260		5,232			1,390	1,954				2,875				174	3.9	543	369								0.040	0.130	0.100	0.250		0.390		24.400				
18/Oct/93	6.7	9,000		3,402			1,120	1,190				2,677				97	2.9	599	287								0.030	0.090	0.100	0.220		0.260		12.500				
16/Nov/93	7.0	13,200		6,660			1,190	2,408				2,769				165	4.0	608	304								0.060	0.100	0.130	0.590		0.400		110.000				
6/Dec/93	6.6			4,170												61	3.3										0.030	0.060	0.060	0.300		0.190		2.700				
10/Jan/94	6.9			4,878												156	3.7										0.040	0.100	0.070	0.240		0.330		6.200				
16/Feb/94	6.9	12,900		4,215			941	2,019				2,638				113	3.3	468	357								0.050	0.160	0.090	0.350		0.430		13.200				
21/Mar/94	6.7			3,036												111	3.0																					
25/Apr/94	6.8			4,266			541									110	3.2										0.020	0.050	0.080	0.140		0.210		7.700				
24/Jun/94	7.0	6,600		1,077			295	870	160							110	3.2										0.030	0.070	0.110	0.260		0.280		4.500				
15/Jul/94	7.1	13,450		2,778				1,824								34	1.5										0.020	0.030	0.090	0.150		0.120		0.900				
29/Aug/94	7.0			2,088												104	2.9										0.030	0.090	0.120	0.220		0.280		2.900				
19/Sep/94	7.2	14,700		2,280			414	1,482				2,741				585											0.040	0.150	0.150	0.220		0.28		11.600				
5/Oct/94	7.3	11,500		2,132			510	1,991				1,552				111	2.2	496	365								0.030	0.120	0.080	0.190		0.280		5.200				
7/Nov/94	7.1	8,300		1,475			584	1,019				1,632				47	1.8	145	289								0.020	0.070	0.120	0.280		0.290		2.900				
7/Dec/94	7.2			1,574												63	1.8	266	235								0.030	0.050	0.060	0.180		0.180		2.500				
16/Jan/95	6.6			537												65	1.9										0.020	0.050	0.090	0.180		0.240		3.100				
21/Feb/95	7.0	11,160		1,883			362	1,676				1,623				15	0.6										0.010	0.000	0.040	0.000		0.060		0.500				
20/Mar/95	7.0			4,980												56	1.7	568	244								0.030	0.050	0.050	0.140		0.170		1.700				
4/May/95	7.1	12,210		2,562			1,020	1,767				2,363				65	2.6										0.030	0.090	0.070	0.190		0.220		3.700				

TABLE E-4
LEACHATE #2
W12A LANDFILL

(In January 2012 with the completed construction of a leachate pumping station and forcemain at the location of leachate tank 'LEACHATE 1' at that time renamed to 'LEACHATE WET WELL', sampling at the other leachate tanks was concluded)

Average	7.1	11,158	651	1,505	3,514	669	437	1,618	360	3,694	3.5	1,825	521	0.6	1.6	632	31	2	370	194	321	1,151	0.411	0.019	0.28	3.32	0.025	0.070	0.075	0.205	0.825	0.2	0.026	2.911	10,026	6.9			
DATE	PH	CONDUCTIVITY (UMHOS/CM)	SS (MG/L)	BOD (MG/L)	COD (MG/L)	DOC (MG/L)	PHENOLS (UG/L)	CI (MG/L)	SO ₄ (MG/L)	ALKALINITY (MG/L)	Total P (MG/L)	HARDNESS (MG/L)	NITROGEN AS N				Fe (MG/L)	Mn (MG/L)	Ca (MG/L)	Mg (MG/L)	K (MG/L)	Na (MG/L)	CYANIDE (MG/L)	As (MG/L)	Ba (MG/L)	B (MG/L)	Cd (MG/L)	Cr (MG/L)	Cu (MG/L)	Pb (MG/L)	Hg (UG/L)	Ni (MG/L)	Se (MG/L)	Zn (MG/L)	Field Cond (us/cm)	Field pH	Field Temp. C		
													NH ₃ (MG/L)	NO ₂ (MG/L)	NO ₃ (MG/L)	TKN (MG/L)																							
9/Sep/96	7.4	10,490		1,010			267	1,850				1,795	455				67	1.2	310	248							0.030	0.070	0.110	0.190		0.190			2.200				
7/Oct/96	7.2	13,110		1,251			292	2,030				1,889	700				45	0.7	211	331								0.020	0.060	0.060	0.220		0.200			1.700			
29/Nov/96	7.3	12,780		1,451			360	2,950				1,243					36	0.7	310	114								0.060	0.140	0.070	0.360		0.360			0.900			
3/Dec/96	7.2			743									503				25	1.0										0.020	0.070	0.060	0.150		0.150			1.200			
9/Jan/97	7.3	12,190		1,640			349	1,840				1,865	604				54	1.1										0.010	0.050	0.060	0.100		0.920			1.300			
7/Feb/97	7.3			1,504			299						457				42	1.2										0.020	0.080	0.060	0.220		0.550			1.100			
24/Mar/97	6.9			4,380									407				58	4.4										0.030	0.080	0.080	0.160		0.230			1.400			
21/Apr/97	7.1	13,750		1,755			675		14			2,165	382				44	2.9	384	293				0.000				0.020	0.100	0.070	0.200		0.200	0.000		1.300			
5/May/97	7.0	13,670		2,217			731	2,600	34			1,974	230				30	1.8	344	271				0.000				0.020	0.150	0.060	0.140		0.150	0.000		1.100			
21/Jul/97	7.1	7,490		2,095			674	1,300	30			1,732	314				31	1.7	372	195				0.000				0.020	0.130	0.070	0.190		0.120	0.000		0.590			
18/Aug/97	7.3			2,106			496						454				34	1.5										0.020	0.110	0.180	0.160		0.250			0.830			
8/Sep/97	7.2	12,870		1,572			476	2,900	1,700			2,234	365				168	3.6	329	343		1,370		0.013			0.040	0.200	0.250	0.320		0.420	0.015		1.800				
27/Oct/97	7.1	8,750		2,064				1,722	222			1,727	391				32	1.3	187	306		793		0	0.008			0.030	0.040	0.090	0.160		0.130	0.000		0.900			
17/Nov/97	7.1	14,540		1,425				1,879	71			1,229	720				24	0.7	191	178		1,553		0	0.033			0.030	0.130	0.050	0.190		0.210	0.034		0.870			
1/Dec/97	7.3			1,146									468				17	1.0										0.020	0.160	0.060	0.000		0.130	0.000		0.730			
8/Jan/98	6.8			541									186				17	1.0										0.008	0.040	0.090	0.000		0.060	0.004		0.290			
16/Feb/98	6.8			5,204									331				29	4.1										0.020	0.070	0.090	0.240		0.180	0.000		2.400			
23/Mar/98	6.9			1,933									480				41.6	4.60										0.070	0.150	0.100	0.230		0.40	0.060		2.900			
1/Jun/98			43,314																																				
2/Jun/98			1,116																																				
3/Jun/98			814																																				
4/Jun/98			1,740																																				
5/Jun/98			4,316																																				
8/Jun/98			720																																				
9/Jun/98			1,292																																				
10/Jun/98			758																																				
27/Apr/98	7.1	12,130		5,054			947	1,953	211			2,411	541				31	4.2	618	211		1,028		0.000			0.030	0.080	0.070	0.120		0.140	0.260		2.100				
4/May/98	7.1	13,990		4,772			1,254	1,864	312			2,748	386				30	3.6	704	240		1,330		0.030			0.040	0.090	0.090	0.320		0.210	0.070		2.100				
15/Jun/98	7.3	15,430		555			448	2,512	91			3,006	382				85	1.9	717	295		1,564		0.010			0.030	0.090	0.090	0.240		0.270	0.000		2.300				
20/Jul/98	7.1	14,860		2,402			562	1,311	90			2,674	678				16	1.4	749	195		1,089		0.020			0.030	0.060	0.060	0.330		0.210	0.000		1.300				
10/Aug/98	7.2			1,675									441				23	1.5										0.040	0.080	0.080	0.370		0.170	0.000		1.700			
14/Sep/98	7.2	15,740		579			291	2,163	69			3,203	415				17	0.7	800	293		1,817		0.000			0.040	0.000	0.060	0.400		0.170	0.020		0.570				
6/Oct/98	7.8	16,400		1,640			394	2,219	71			2,804	407				16	0.6	658	282		1,760		0.010			0.030	0.000	0.040	0.230		0.150	0.050		0.690				
16/Nov/98	7.2	15,740		1,279			381	2,095	80			4,023	418				14	0.7	1,090	316		1,771		0.030			0.040	0.070	0.030	0.320		0.190	0.030		0.190				
7/Dec/98	7.4			1,664									392				14	0.6									0.030	0.070	0.060	0.280		0.220	0.040		0.760				
19/Jan/99	7.4			943									160				15										0.040	0.020	0.090	0.040	0.190		0.130	0.040		0.530			
8/Feb/99	7.3			788								2.90	517				16	0.8								0.020	0.060	0.050	0.120		0.120	0.030		0.510					
1/Mar/99	7.0			2,939								2.90	261				2	1.4								0.021	0.020	0.090	0.050	0.120		0.130	0.026		0.150				
29/Apr/99	7.2	9,520		4,222			320	1,333	586			1.07	2,563				13	1.4	671	216		885		0.003			0.020	0.080	0.040	0.150		0.200	0.004		0.780				
17/May/99	7.4	17,060		2,959			461	2,428	413			4.12	1,888				18	1.0	452	185		1,360		0.004			0.020	0.100	0.060	0.180		0.120	0.000		1.300				
15/Jun/99	7.3	13,570		1,743			244	1,892	932			1,511	637				14	0.9	249	216		1,246		0.021			0.030	0.050	0.070	0.230		0.150	0.010		0.670				
23/Jul/99	7.5			4,146					441				801				15	0.4								0.026	0.020	0.050	0.160		0.170	0.007		0.860					
9/Aug/99	7.5			582					448				816				14	0.3							0.023			0.030	0.080	0.070	0.240		0.100	0.032		0.900			
20/Sep/99	7.7	16,360		448			201	2,430	569		4.53	2,103	953				13	0.2	419	256		1,827		0.026			0.020	0.060	0.050	0.180		0.120	0.033		0.620				
7/Oct/99	7.5	15,780		858			130	2,542	456		6.80	2,062	735				11	0.2	403	257		1,610		0.010			0.030	0.070	0.050	0.200		0.170	0.030		0.900				
15/Nov/99	7.5	15,610		370			72	2,407	868		4.00	2,216	857				10	0.3	483	245		1,887		0.032			0.030	0.000	0.050										

**TABLE E-6
BOREHOLE #97-4
W12A LANDFILL**

AVG	7.5	12,605	97	1,308	386	22	2,589	905	5,634	5.7	18.5	705	0.00	1.4	1,275		526	344	1,442	896	0.00	0.5	11.6	0.0	0.1	0.1	0.1	0.0	0.0	0.2		7.8
STD	0.0	645	6	43	22	4	1,159	526	466	5.2	0.0	102	0.0	0.0	0.0		14	14	86	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
# of samples	2	2	2	2	2	2	2	2	2	2	1	2	1	1	1		2	2	2	2	1	1	1	2	1	1	2	1	1	1		1

	DATE	PH	CONDUCTIVITY (uS/cm)	BOD (MG/L)	COD (MG/L)	DOC (MG/L)	PHENOL (UG/L)	Cl (MG/L)	SO ₄ (MG/L)	ALKALINITY (MG/L)	Fe (MG/L)	Mn (MG/L)	NITROGEN AS N				TP (MG/L)	Ca (MG/L)	Mg (MG/L)	Na (MG/L)	K (MG/L)	As (MG/L)	Ba (MG/L)	B (MG/L)	Cd (MG/L)	Cr (MG/L)	Cu (MG/L)	Ni (MG/L)	Pb (MG/L)	Se (MG/L)	Zn (MG/L)	Field Cond. (uS/cm)	pH			
													NH ₃ (MG/L)	NO ₂ (MG/L)	NO ₃ (MG/L)	TKN (MG/L)																				
1	31/Oct/01	7.6	11,960	91	1,265	364	26	3,747	379	6,100	10.9		603				512	330	1,527	808						<0.1			<0.06							7.8
2	18/Jun/02	7.5	13,250	103	1,350	408	18	1,430	1,430	5,168	0.5	18.5	807	<0.01	1.4	1,275	540	357	1,356	983	<0.002	0.53	11.6	<0.01	0.06	0.06	0.12	0.04	<0.002	0.19						

**TABLE E-8
BOREHOLE #97-7
W12A LANDFILL**

	AVG	7.2	10,616	68	1,378	295	20	1,390	248	3,921	1,505	1,885	32.6	0.5	753	0.4	0.6	799	2.8	281	205	921	361	0.4	0.6	3.0	0.00	0.04	0.04	0.2	0.05	0.118	0.3	8,519	7.2		
	STD	0.1	1,125	49	801	52	22	183	601	1,190	938	2,824	31.5	0.7	518	1.1	1.0	178	2.1	291	62	300	140	1.4	0.2	1.0	0.01	0.03	0.04	0.1	0.05	0.864	0.3	2,534	0.3		
	# of samples	51	51	51	51	50	48	51	51	51	50	37	51	39	51	18	19	19	39	50	51	51	51	17	18	16	50	18	18	49	18	17	18	29	28		
	DATE	PH	CONDUCTIVITY (uS/cm)	BOD (MGL)	COD (MGL)	DOC (MGL)	PHENOL (UG/L)	CI (MGL)	SO ₄ (MGL)	ALKALINITY (MGL)	HARDNESS (MGL)	SS (MGL)	Fe (MGL)	Mn (MGL)	NITROGEN AS N				TP (MGL)	Ca (MGL)	Mg (MGL)	Na (MGL)	K (MGL)	As (MGL)	Ba (MGL)	B (MGL)	Cd (MGL)	Cr (MGL)	Cu (MGL)	Ni (MGL)	Pb (MGL)	Se (MGL)	Zn (MGL)	Field Cond. (uS/cm)	pH		
															NH ₃ (MGL)	NO ₂ (MGL)	NO ₃ (MGL)	TKN (MGL)																			
1	25/Jul/00	7.2	14,400	39	1,274			1,599	1,123	5,300	2,664		0.1	<0.02	1,013	<0.01	1.28	1,080		653	251	1,357	513				0.01	<0.04	<0.03		<0.10		0.19				
2	4/May/01	7.2	14,110	110	3,206	422		1,687	488	5,500	4,142		23		957		0.05	1,276		1,032	380	2,406	1057		0.38												
3	6/Jul/01	7.3	9,490	109	1,177	288	57	1,214	304	3,480	581		4.3	0.90	611	1.49	0.69	738		66	101	762	258	0.011	0.17		<0.1	0.02	<0.03	0.25	0.02	0.012	0.03				
4	26/Apr/02	7.5	10,480	130	1,020	288	146	1,232	572	3,688	1,075		4.6		663					282	90	694	568				<0.01			0.08							
5	19/Jun/02	7.3	10,600	313	1,316	292	28	1,324	701	3,456	2,665		7.5	0.13	678	<0.01	<0.01	992		609	278	929	713	<0.002	0.36	4.0	<0.01	<0.04	0.07	0.20	<0.03	<0.002	0.09		7.1		
6	24/Oct/02	7.2	10,580	84	1,355	309	27	1,479	417	3,992	2,124		55		666					293	338	1,549	702				<0.01			0.28				887			
7	15/May/03	7.3	10,430	74	1,274	291	14	1,336	771	3,300	1,007		0.1		615					103	182	839	279				<0.02			<0.01		<0.01			8,850	7.3	
8	17/Jul/03	7.3	10,430	48	1,296	305	20	1,191	394	3,620	903		13	0.15	719	0.50	0.42	746		99	159	715	290	6.000	0.49	6.6	<0.02	0.030	0.010	0.22	<0.03	<0.002	0.15		8,070	7.3	
9	28/Oct/03	7.4	11,000	66	1,260	264		1,280	2,470	4,170	1,363		75		4,170					282	160	787	293				<0.02			0.91				8,060	7.4		
10	30/Apr/04	7.1	10,300	206	1,270	282	22	1,400	898	3,660	696		7.4		1,630					50	139	593	493				<0.02			0.20				5,230			
11	18/Aug/04	7.3	10,500	152	6,570	280	22	1,260	750	7,220	1,196		37	0.59	690	<0.03	1.15	1,080		187	177	717	304	0.010	0.81	2.9	<0.02	0.060	0.080	0.28	0.060	<0.2	0.43		6,070	7.0	
12	24/Oct/04	7.2	12,300	91	1,580	264	20	1,120	2,510	3,740	688		33		590						167	764	278				<0.02			0.38				856	6.9		
13	3/May/05	7.2	10,300	60	1,460	274	22	1,370	298	2,940	884	335	15		602						148	497	305				<0.02			0.15				10,590	6.8		
14	14/Jul/05	7.4	10,400	64	1,570	310	30	1,390	221	3,680	1,260	1,480	33	0.62	592	<0.8	<2	770		3.0	216	175	734	317	0.020	0.72	2.6	<0.02	0.050	0.070	0.18	0.060	<0.02	0.30		7,970	7.0
15	17/Oct/05	7.2	10,100	63	968	324	36	1,440	41	5,870	5,856	14,300	165		651					11.4	1,750	361	863	326				<0.02			0.37			7,540	6.8		
16	31/May/06	7.1	10,600	46	1,150	384	31	1,200	2.78	3,470	1,074	578	18.1		512					2.90	153	168	688	268				<0.02			0.16						
17	24/Jul/06	7.1	10,300	72	1,080	245	13	1,470	14	3,690	1,395	2,340	45	0.97	695	<0.3	1.40	811		3.90	275	172	700	286	0.021	0.81	2.7	<0.02	0.060	0.070	0.19	0.090	<0.01	0.49			
18	31/Oct/06	7.0	10,100	50	952	252	22	1,100	5	3,780	1,554	2,830	53.8		578					2.20	327	179	763	270				<0.02			0.22						
19	8/May/07	7.1	11,200	56	1,340	213	14	1,130	3	4,050	1,867	4,280	83.8		649					0.27	441	186	746	280				<0.01			0.27						
20	6/Jul/07	7.1	9,970	54	1,240	103	20	1,160	433	3,960	2,369	5,250	88.8	2.21	626	3.40	<0.6	678		6.20	599	212	795	316	0.036	0.99	2.5	<0.01	0.130	0.150	0.26	0.200	<0.02	1.16			
21	24/Oct/07	7.3	10,200	53	1,430	256	15	1,340	<10	3,910	1,982	3,370	87.2	2.13	556					5.50	469	197	706	294				<0.01			0.26						
22	8/Apr/08	7.2	14,200	56	1,400	444	28	1,800	10	6,720	731	28	5.0	0.05	1390					7.90	87	125	589	220				<0.01			0.19						
23	26/Jun/08	6.9	10,400	58	1,130	280	76	1,670	12	3,240	951	331	13.3	0.17	591	<0.3	<0.6	628		0.60	117	160	876	271	0.012	0.61	3.0	<0.01	0.020	0.010	0.15	0.010	<2	0.10			
24	23/Oct/08	7.2	9,650	69	1,100	271	10	1,270	<10	3,350	981	6,580	4.9	0.10	590					0.60	111	171	727	263				<0.01			0.15						
25	27/Apr/09	7.3	8,230	84	996	291	15	1,330	<10	3,260	388		3.6	0.07	599					0.80	24	80	500	284				<0.01			0.13						
26	2/Jul/09	6.8	9,440	30	1,120	299	10	1,240	<10	3,360	1,059		8.9	0.08	603	<0.3	<0.6	627		1.90	114	188	948	317	0.011	0.44	2.7	<0.01	0.010	<0.01	0.14	0.010	2.000	0.210			
27	25/Oct/09	7.1	9,760	85	1,860	268	13	1,520	<10	3,300	3,210	9,010	120.0	3.60	637					4.00	893	238	789	313				0.02			0.45						
28	27/Apr/10	7.1	13,300	44	1,380	362	11	1,650	<10	4,950	1,892	195	12.7	0.23	668					2.00	169	357	1,450	485				<0.01			0.11			10065	7.3		
29	24/Jun/10	7.0	9,980	80	1,420	286	11	1,340	<10	3,750	1,830	2,050	49.3	1.00	560	0.80	<0.6	629		0.80	357	228	955	383	0.021	0.83	2.6	<0.01	0.070	0.070	0.21	0.110	<0.010	0.560			
30	26/Oct/10	7.1	10,530	71	1,100	284	10	1,470	<10	3,400	1,239	123	8.0	0.09	635					1.30	135	219	964	362				<0.01			0.16						
31	29/Apr/11	6.9	10,200	84	1,060	296	15	1,580	10	3,420	997	49	9.3	0.05	618					1.31	104	179	794	285				<0.01			0.14						
32	23/Jun/11	7.1	10,100	29	1,030	266	5	1,440	12	3,400	1,370	78	10.1	0.06	649	<0.3	1.30	718		1.80	138	249	1,060	421	0.009	0.57	2.5	<0.01	0.020	<0.01	0.15	<0.01	<0.002	0.040			
33	28/Oct/11	7.2	10,200	45	1,200	374	11	1,410	<10	3,330	1,345	403	17.9	0.22	639					2.60	166	226	984	368				<0.01			0.17						
34	27/Apr/12	7.1	9,840	51	1,230	298	13	1,460	11	3,500	1,126	888	30.4	0.43	649					1.20	149	183	840	308				<0.01			0.23			13471	7.5		
35	15/Jun/12	7.1	10,300	50	1,350	252	8	1,440	12	3,580	1,416	1,372	45.4	0.68	655	<0.3	<0.6	692		2.70	239	199	875	306	0.010	0.58	2.7	<0.01	0.060	0.050	0.30	0.090	<0.010	0.420		9050	7.2
36	18/Oct/12	7.2	10,500	110	1,350	250	11	658	<10	3,540	1,106	983	27.7	0.44	695					3.15	169	166	806	278				<0.01			0.21			9268	7.3		
37	26/Apr/13	7.1	10,600	19	1,220	354	16	1,540	22	3,520	1,547	1,706	46.8	0.93	681					3.43	278	207	873	320				<0.01			0.32			9081	7.8		
38	26/Jun/13	7.1	10,800	46	1,200	278	9	1,540	19	3,440	1,087	819	30.4	0.39	705	<0.3	1.40	715		3.00	155	170	820	305	0.012	0.53	2.2	<0.01	0.040	0.030	0.27	0.040	<0.004	0.270		9173	7.4
39																																					

**TABLE E-9
BOREHOLE #00-7a
W12A LANDFILL**

	AVG	7.6	1,099	0	22	5	63.3	3	519	0	0.283	4.152	3.27	0.18	1.28	5.29	82	57	68	6.89	7.5	0.002	0.291	0.141		0.001	0.004	0.013			0.008	1048	7.6	
	STD	0.2	154	0	8.494	4	14.5	2	88	0	0.911	14.159	2.07	0.15	1.23	4.79	19	5	13	2.25	3.3	0.001	0.045	0.033		0.000	0.003	0.008			0.003	150	0.5	
	# of samples	14	14	0	14	14	14	14	14	14	14	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	9	9
	DATE	PH	COND- UCTIVITY (uS/cm)	BOD (MG/L)	COD (MG/L)	PHENOL (UG/L)	Cl (MG/L)	SO ₄ (MG/L)	ALKALINITY (MG/L)	HARDNESS (MG/L)	Fe (MG/L)	Mn (MG/L)	NITROGEN AS N				Ca (MG/L)	Mg (MG/L)	Na (MG/L)	K (MG/L)	DOC (MG/L)	As (MG/L)	Ba (MG/L)	B (MG/L)	Cd (MG/L)	Cr (MG/L)	Cu (MG/L)	Ni (MG/L)	Pb (MG/L)	Se (MG/L)	Zn (MG/L)	Field Cond. (uS/cm)	Field pH	
													NH ₃ (MG/L)	NO ₂ (MG/L)	NO ₃ (MG/L)	TKN (MG/L)																		
1	17/Aug/04	7.53	973		24	1	39	8	464	389	0.018	53.2	3.32	<0.03	<0.06	5.3	73	50	52	6	8	<0.002	0.267	0.18	<0.0002	<0.002	0.006	0.005	<0.002		<0.004			
2	13/Jul/05	7.85	972		21	<1	35	<1	446	373	0.011		2.24	<0.03	0.10	3.1	70	48	52	5		0.002	0.208	0.14	<0.0002	<0.002	0.005	0.004	<0.002		<0.004			
3	24/Jul/06	7.98	988		19	<1	40	<1	472	383	0.008	0.044	2.52	<0.03	<0.06	3.9	72	49	56	6	7	0.002	0.237	0.14	<0.002	<0.002	<0.002	0.005	<0.002		<0.004	836	7.71	
4	6/Jul/07	7.79	1,280		41	<1	82	2	616	420	0.020	0.048	9.60	0.48	1.41	19.2	79	54	85	11	16	0.001	0.328	0.22	<0.002	<0.001	0.005	0.011	<0.001		0.006			
5	26/Jun/08	7.64	668		38	13	68	3	264	401	0.051	0.046	4.04	0.08	0.50	6.6	77	51	81	9	11	0.001	0.280	0.17	<0.002	0.0015	<0.001	0.009	<0.001		0.004			
6	29/Jun/09	7.43	1,070		17	7	60	2.9	540	319	0.047	0.050	3.88	<0.03	<0.06	4.2	24	63	98	9	7	<0.001	0.223	0.13	<0.002	<0.001	0.011	0.024	<0.001		0.008			
7	24/Jun/10	7.84	1,140		30	2	75	2.1	559	427	0.014	0.052	5.70	0.13	2.77	13.4	83	54	80	12	11	0.001	0.291	0.16	<0.0002	<0.001	0.001	0.012	<0.001		0.009	1272	8.17	
8	24/Jun/11	7.90	1,240		18	2	71	1.8	624	499	0.017	0.089	2.77	<0.03	0.51	3.4	99	61	75	7	6	0.001	0.281	0.11	<0.0002	<0.001	<0.001	0.025	<0.001		0.013	1181	8.21	
9	15/Jun/12	7.57	1,220		14	<1	65	1.7	611	514	0.008	0.073	2.34	<0.03	0.16	2.7	101	64	69	5	7	<0.001	0.282	0.13	<0.0002	<0.001	0.005	0.021	<0.002		0.004	1054	7.28	
10	26/Jun/13	7.54	1,180		18	<1	62	1.6	547	487	0.009	0.078	2.12	<0.03	4.10	3.4	96	60	62	7	7	0.001	0.316	0.12	<0.0002	<0.001	0.002	0.021	<0.002		0.008	1012	7.32	
11	25/Jun/14	7.59	1,140		12	<1	67	2.2	561	480	0.006	0.052	1.90	<0.03	0.38	1.8	94	59	60	5	4	<0.001	0.332	<0.10	<0.0002	<0.001	<0.001	0.007	<0.002		0.005	1019	7.47	
12	19/Jun/15	7.63	1,100		24	<1	69	7	510	468	<0.100	0.050	1.60	0.091	1.17	2.3	90	59	61	5	5	0.002	0.360	0.09	<0.0001	<0.005	0.002	0.005	<0.0005		0.016	812	6.53	
13	25/Jun/16	7.07	1,220		19	2	75	<1	521	470	3.440	0.117	2.40	0.04	1.73	2.9	92	58	59	6	6	0.003	0.317	0.13	0.0002	<0.001	<0.001	0.019	<0.002		0.009	1223	7.85	
13	26/Jun/17	7.42	1,200		13	<1	79	6	536	492	0.029	0.084	1.34	0.24	<0.40	1.9	96	61	59	5	4	0.004	0.349	0.11	<0.0002	0.001	0.001	0.020	<0.002		0.009	1023	7.64	

**Table E-10
Leachate Monitoring
Wells
VOCs Test Results**

Parameter	ODWS			Leachate Monitoring Wells																		
	MAC	IMAC	AO	97-2																	97-3	
				31-Oct-01	26-Apr-02	19-Jun-02	25-Oct-02	28-Jul-03	14-Jul-05	26-Jul-06	6-Jul-07	26-Jun-08	29-Jun-09	28-Jun-10	23-Jun-11	15-Jun-12	26-Jun-13	26-Jun-14	19-Jun-15	25-Jun-16	19-Jun-17	19-Jun-02
Chloromethane				<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acetone				<10	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<50	<100	<30	30	<250	<20	<20	<1
Dichloromethane	50			<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<10	<3	<5	<5	<2	<13	<2	<2	<1
Ethene, 1,2-chloro				<1	<1	<1	<1	<1	<10	<1	<1	<1							<2.5			<10
Ethane, 1,2-dibromo				<1	<1	<1	<1	<1	<10	<1	<1	<1		<4	<1	<2	<2.6	<0.5	<5	<0.2	<0.2	<1
Ethene, 1,2-dichloro				<1	<1	<1	<1	<1	<10	<1	<1	<1		<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	<10
Methane, bromochloro				<1	<1	<1	<1	<1	<10	<1	<1	<1							<0.5			<1
Chloroform				<1	<1	<1	<1	<1	<10	<1	<1	<1	<2	<2	<0.5	<1	<1	<1	<2.5	<1	<1	<1
t-1,1,1 trichloroethene				<1	<1	<1	<1	<1	<10	<1	<1	<1		<2							<0.5	<1
Carbon Tetrachloride	5			<1	<1	<1	<1	<1	<10	<1	<1	<1	<2	<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	<1
Benzene	5			5	<1	<1	<1	<1	<10	<1	2	2	<2	<2	2	2	2	2	3	2	2.4	<1
Ethane, 1,2-dichloro		5		<1	<1	<1	<1	2	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<10
Ethene, trichloro-	50			<1	<1	<1	<1	<1	<10	<1	<1	<1		<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	<1
propane, 1,2-dichloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<2	<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	<10
methane, dichlorobromo				<1	<1	<1	<1	<1	<10	<1	<1	<1	<2	<2	<0.5	<1	<2	<1	<2.5	<1	<1	<1
propene, cis 1,3-dichloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<10
4-methyl-2-pentanone (mibk)				<10	<10	<10	<10	<10	<10	<10	<10	<10		<100	<30	<50	<20	<20	<130	<20	<20	<1
Toluene			24	3	<1	<1	<1	<1	<10	<1	1.1	1.1	<4	<4	<1	<2	<0.7	0.73	<5	0.86	1.2	<10
Propene, t-1-3-dichloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<1
Ethane, 1,1,2,-trichloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<10
Ethene, tetrachloro	30			<1	<1	<1	<1	<1	<10	<1	<1	<1		<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	<1
2 - Hexanone				<1	<1	<1	<1	<1	<10	<1	<1	<1				<30	<20	<20	<20	<20	<20	<10
Methane, dibromochloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<2	<1	<5	<5	<1	<1
Ethane, 1, 2-dibromo				<1	<1	<1	<1	<1	<10	<1	<1	<1		<4	<1	<2	<2.6	<0.5	<5	<5	<0.2	<1
Benzene, chloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<2	<2	1	1	1	1	<2.5	2	2	<1
Benzene, ethyl			2	38	164	200	29	60	<10	13	28	<10	9	11	12	10	11	8	7	8	9	111
p-Xylenes			300	<1	<1	62	4	50	<10	16	16	<10	20	26	33	31	20	24	22	28	31	42
Styrene				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<10
Bromoform				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<1	<1	<5	<1	<1	<1
Ethane, 1,1,2,2 tetrachloro				<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<1
Benzene, 1,3-dichloro				<1	31	31	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	23
Benzene, 1,4-dichloro	5		1	14	29	<1	<1	40	<10	<1	2	2	<4	<4	2	4	3	3	<5	3	2.9	<1
Benzene, 1,2-dichloro	200		3	<1	<1	<1	<1	<1	<10	<1	<1	<1	<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	<1
Propane, 1,2-dibromo-3-chloro				<1	<1	<1	<1	<1	<10	<1	<1	<1										<1
d-Limonene				not present	5	5	<1	<1	<10	<1	<1	<1										14
Methyl Ethyl Ketone (MEK)													<100	<100	<30	<50	<20	<20	<130	<20	<20	
Vinyl Chloride	2												<4	<4	<1	<2	<0.5	<0.5	<5	<0.5	<0.5	
Bromomethane													<10	<10	<3	<5	<0.5	<0.5	<13	<0.5	<0.5	
Chloroethane																<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane															<1	<2	<5	<1	<5	<1	<1	
1,1 - Dichloroethylene	14												<2	<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	
Methyl - t - butylether (MTBE)													<4	<4	<1	<2	<2	<0.5	<5	<0.5	<0.5	
1,1 - Dichloroethane		5											<2	<2	<0.5	<1	<0.5	<0.5	<2.5	<0.5	<0.5	
o - Xylene			300							17			13	13	19	14	16	15	13	15	18	42
Total Xylenes Calculated													33	39	53	45	36	40	35	43	49	
1,1,1,2 Tetrachloroethane													<2	<2	<0.5	<2	<0.5	<0.5	<5	<0.5	<0.5	

Notes:
1. All units stated in ug/L
2. Definitions:
ODWS: Ontario Drinking Water Standards
MAC: Maximum Acceptable Concentration
IMAC: Interim Maximum Acceptable Concentration
AO: Aesthetic Objective

**Table E-10
Leachate Monitoring
Wells
VOCs Test Results**

Parameter	ODWS			Leachate Monitoring Wells																					
	MAC	IMAC	AO	97-4					97-5																
				18-Jun-02	31-Oct-01	26-Jul-00	9-Jul-01	31-Oct-01	26-Apr-02	18-Jun-02	17-Jul-03	14-Jul-05	24-Jul-06	6-Jul-07	29-Jun-09	28-Jun-10	23-Jun-11	15-Jun-12	26-Jun-13	26-Jun-14	19-Jun-15	24-Jun-16	19-Jun-17		
Chloromethane				<1	<1	< 4.3	<43	<1	<1	<1	<1	<10	<1	<1				<1	<1		<1	<1			
Acetone				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1	<5	<10	<3	<2.5	<5	<2	<13	<2	<2		
Dichloromethane	50			<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1				<4	<1	<1	<3.1	<3	<5	<0.2	<0.2
Ethene, 1,2-chloro				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1				<2	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Ethane, 1,2-dibromo				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1				<4	<1	<1	<3.1	<3	<5	<0.2	<0.2
Ethene, 1,2-dichloro				<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1				<2	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Methane, bromochloro				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1				<2	<0.5	<0.5	<1	<1	<2.5	<1	<1
Chloroform				<1	<1	< 1.7	<17	<1	<1	<1	<1	12	<1	<1	<1	<2	<0.5	<0.5	<1	<1	<2.5	<1	<1	<1	<1
t-1,1,1 trichloroethene				<1	<1	< 1.7	<17	<1	<1	<1	<1	<10	<1	<1				<1	<1	<2.5	<1	<1	<1	<1	<1
Carbon Tetrachloride	5			<1	<1	< 1.7	<17	<1	<1	<1	<1	<10	<1	<1	<1	<2	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
Benzene	5			<1	7	9	<17	11	<1	<1	<1	<10	<1	5	3	4	5	4	3	5	5	4	5.3	4	5.3
Ethane, 1,2-dichloro		5		<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Ethene, trichloro-	50			<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1				<2	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5
propane, 1,2-dichloro				<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<1	<2	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
methane, dichlorobromo				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1	<1	<2	<0.5	<0.5	<2	<1	<2.5	<1	<1	<1	<1
propene, cis 1,3-dichloro				<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
4-methyl-2-pentanone (mibk)				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<10	<10		<100	<30	<25	<20	<20	<130	<20	<20	<20	<20
Toluene			24	<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<2	<4	<1	<1	<0.7	1.22	<5	0.68	1.9	<1	<1
Propene, t-1-3-dichloro				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Ethane, 1,1,2,-trichloro				<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Ethene, tetrachloro	30			<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1				<2	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5
2 - Hexanone				<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<30	<20	<20	<20	<20	<20	<20	<20
Methane, dibromochloro				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1	<2	<4	<1	<1	<2	<1	<5	<1	<1	<1	<1
Ethane, 1, 2-dibromo				<1	<1	< 1.7	<17	<1	<1	<1	<1	<10	<1	<1				<4	<1	<1	<3.1	<3	<5	<5	<0.2
Benzene, chloro				<1	<1	13	<17	13	<1	<1	17	<10	<1	10	<1	8	7	7	7	9	10	8	9	8	9
Benzene, ethyl			2	60	16	75	66	9	44	82	170	84	21	52	<1	41	2	47	38	43	46	37	55	37	55
p-Xylenes			300	<1	<1	67	44	<1	<1	<1	128	19	<1	<1	21	23	12	28	3	42	83	17	52	17	52
Styrene				<10	<10	< 17	<860	<10	<10	<10	<10	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Bromoform				<1	<1	< 9	<860	<1	<1	<1	<1	<10	<1	<1	<2	<4	<1	<1	<1	<1	<5	<1	<1	<1	<1
Ethane, 1,1,2,2 tetrachloro				<1	<1	< 1.7	<17	<1	<1	<1	<1	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Benzene, 1,3-dichloro				17	<1	< 1.7	<17	5	13	15	<1	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Benzene, 1,4-dichloro	5		1	<1	<1	6	<17	<1	12	<1	<1	<10	<1	6	3	6	6	7	4	7	6	6	6	6.8	6.8
Benzene, 1,2-dichloro	200		3	<1	<1	< 1.7	<17	<1	<1	<1	<1	<10	<1	<1	<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Propane, 1,2-dibromo-3-chloro				<1	<1			<1	<1	<1	<1	<10	<1	<1											
d-Limonene				<1	not present			not present	16	25	<1	<10	<1	<1											
Methyl Ethyl Ketone (MEK)				84		< 17	<170								<50	<100	<30	<25	<20	<20	<130	<20	<20	<20	<20
Vinyl Chloride	2					< 4.3	<43								<2	<4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
Bromomethane						< 4.3	<43								<5	<10	<3	<2.5	<0.5	<0.5	<13	<0.5	<0.5	<0.5	<0.5
Chloroethane						< 4.3	<43											<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane						< 2.6	<26										<1	<1	<5	<1	<5	<1	<1	<1	<1
1,1 - Dichloroethylene	14					< 1.7	<17								<1	<2	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5
Methyl - t - butylether (MTBE)						< 8.6	<860								<1	<4	<1	<1	<2	<0.5	<5	<0.5	<0.5	<0.5	<0.5
1,1 - Dichloroethane		5				< 1.7	<17								<2	<2	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5
o - Xylene			300	<1	<1	67	44	<1	<1	<1	128	19	<1	<1	21	23	12	28	3	42	38	6	12	6	12
Total Xylenes Calculated						77	41								39	25	30	20	37	10	50	45	23	64	64
1,1,1,2 Tetrachloroethane						< 1.7	<17									<2	<0.5	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5

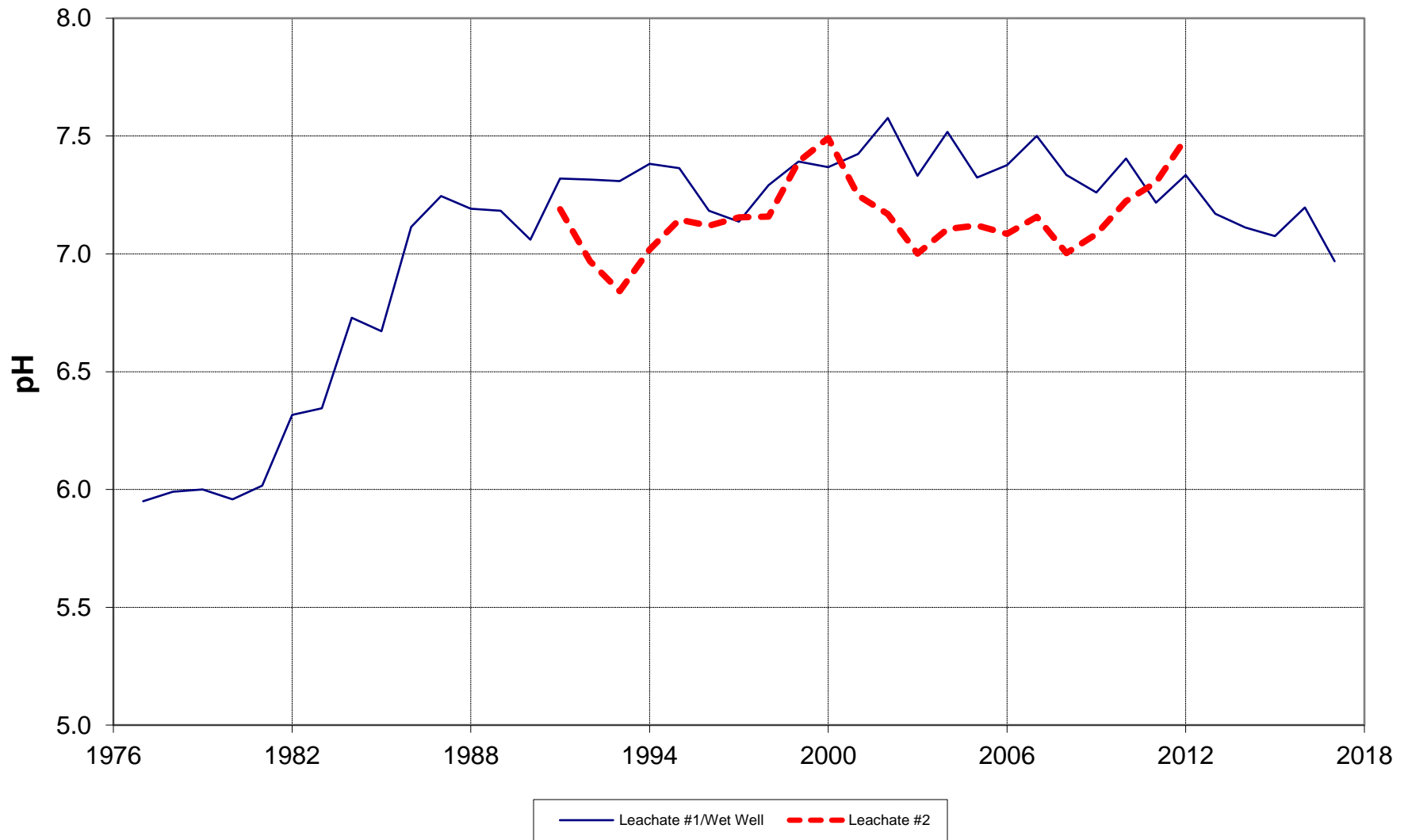
Notes:
1. All units stated in ug/L
2. Definitions:
ODWS: Ontario Drinking Water Standards
MAC: Maximum Acceptable Concentration
IMAC: Interim Maximum Acceptable Concentration
AO: Aesthetic Objective

**Table E-10
Leachate Monitoring
Wells
VOCs Test Results**

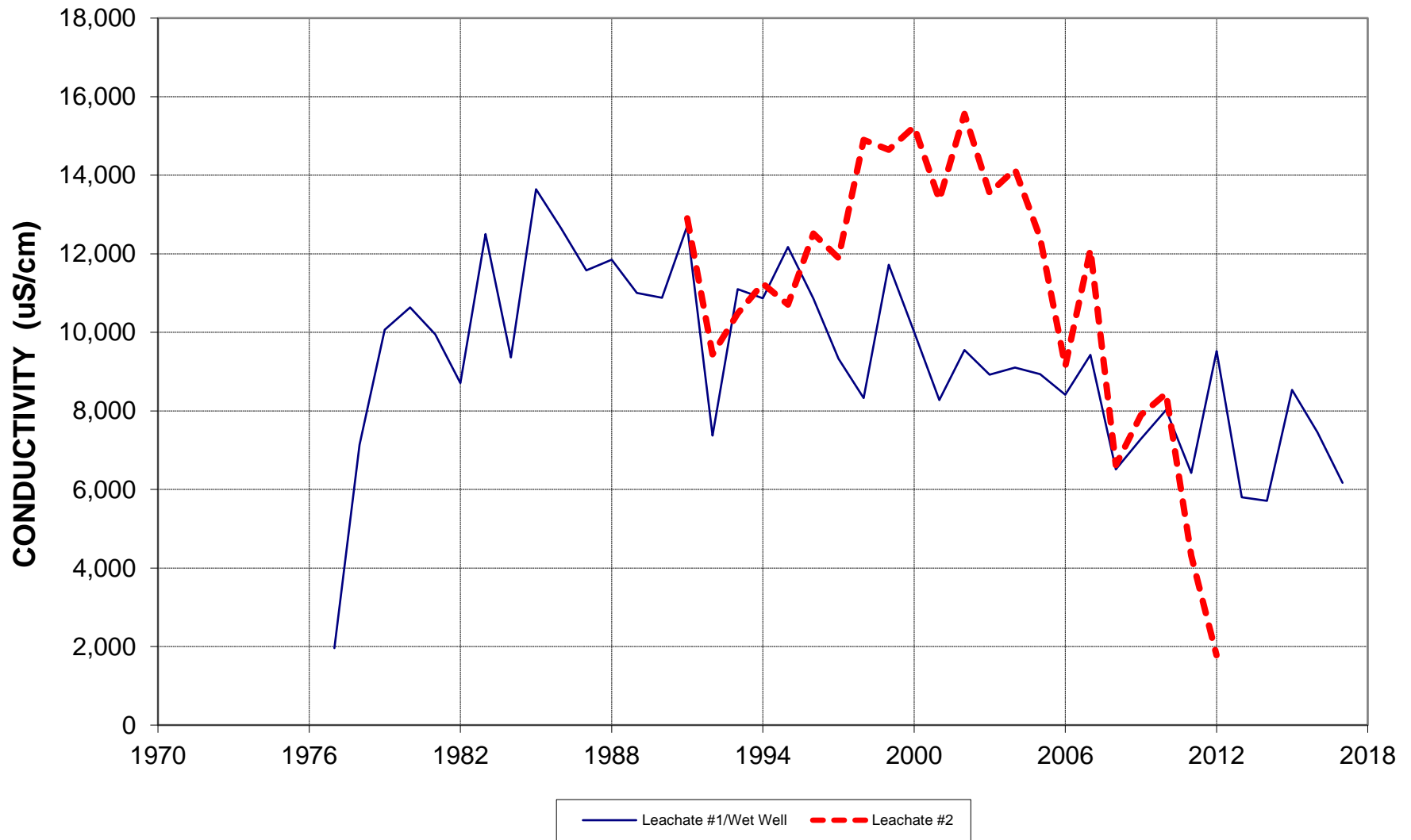
Parameter	ODWS			Leachate Monitoring Wells																		
	MAC	IMAC	AO	97-7																		
				25-Jul-00	9-Jul-01	26-Apr-02	19-Jun-02	24-Oct-02	13-Jul-03	14-Jul-05	14-Jul-05	24-Jul-06	6-Jul-07	29-Jun-09	28-Jun-10	23-Jun-11	15-Jun-12	26-Jun-13	25-Jun-14	19-Jun-15	25-Jun-16	19-Jun-17
Chloromethane																					<1	<1
Acetone				<4.3	<22	<1	<1	<1	<1	<10	<1	<1	<1					<1	<1		<20	<20
Dichloromethane	50			<9	<43	<1	<1	<1	<1	<10	<1	<1	<1	<10	<5	<5	<5	<5	<2	<10	<2	<2
Ethene, 1,2-chloro				<17	<430	<10	<10	<10	<10	<10	<1	<1	<1						<2			
Ethane, 1,2-dibromo				<9	<43	<1	<1	<1	<1	<10	<1	<1	<1		<2	<2	<2	<0.5	<0.5	<4	<0.2	<0.2
Ethene, 1,2-dichloro				<17	<430	<10	<10	<10	<10	<10	<1	<1	<1		<1	<1	<1	<0.5	<0.5	<2	<0.5	<0.5
Methane, bromochloro				<9	<43	<1	<1	<1	<1	<10	<1	<1	<1								<0.5	
Chloroform				<1.7	<8.6	<1	<1	<1	<1	13	<1	<1	<1	<3	<1	<1	<1	<1	<1	<2	<1	<1
t-1,1,1 trichloroethene				<1.7	<8.6	<1	<1	<1	<1	<10	<1	<1	<1									<0.5
Carbon Tetrachloride	5			<1.7	<8.6	<1	<1	<1	<1	<10	<1	<1	<1	<3	<1	<1	<1	<0.5	<0.5	<2	<0.5	<0.5
Benzene	5			4.4	<8.6	<1	<1	<1	<1	<10	<1	<1	2	4	<1	4	<1	1	4	4	1	3.8
Ethane, 1,2-dichloro		5		< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
Ethene, trichloro-	50			< 9	<43	<1	<1	<1	<1	<10	<1	<1	<1		<1	<1	<1	<0.5	<0.5	<2	<2	<0.5
propane, 1,2-dichloro				< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1	<3	<1	<1	<1	<0.5	<0.5	<2	<0.5	<0.5
methane, dichlorobromo				< 9	<43	<1	<1	<1	<1	<10	<1	<1	<1	<3	<1	<1	<1	<2	<1	<2	<1	<1
propene, cis 1,3-dichloro				< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
4-methyl-2-pentanone (mibk)				< 9	<43	<1	<1	<1	<1	<10	<10	<10	<10		<50	<50	<50	<20	<20	<100	<20	<20
Toluene			24	< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1	<5	<2	<1	<2	<0.5	<0.5	<4	<0.5	0.7
Propene, t-1-3-dichloro				< 9	<43	<1	<1	<1	<1	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
Ethane, 1,1,2,-trichloro				< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
Ethene, tetrachloro	30			< 9	<43	<1	<1	<1	<1	<10	<1	<1	<1		<1	<1	<1	<0.5	<0.5	<2	<0.5	<0.5
2 - Hexanone				< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1		<1	<1	<1	<30	<20	<20	<20	<20
Methane, dibromochloro				<9	<43	<1	<1	<1	<1	<10	<1	<1	<1	<5	<2	<2	<2	<2	<1	<4	<1	<1
Ethane, 1, 2-dibromo				<1.7	<8.6	<1	<1	<1	<1	<10	<1	<1	<1		<2	<2	<2	<0.5	<0.5	<4	<1	<0.2
Benzene, chloro				<1.7	<8.6	<1	<1	<1	<1	<10	<1	<1	<1	<3	<1	1	<1	<0.5	3	4	<0.5	4
Benzene, ethyl			2	64	<8.6	182	190	3	190	<10	<1	22	1	45	<1	1	<1	<0.5	6	27	<0.5	12
p-Xylenes			300	190	<8.6	<1	<1	<1	<1	<10	<1	<1	<1	120	<1	46	5	8	59	83	9	62
Styrene				< 17	<430	<10	<10	<10	<10	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
Bromoform				< 9	<43	<1	<1	<1	<1	<10	<1	<1	<1	<5	<2	<2	<2	<1	<1	<4	<1	<1
Ethane, 1,1,2,2 tetrachloro				< 1.7	<8.6	<1	<1	<1	<1	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<1.1	<0.78
Benzene, 1,3-dichloro				< 1.7	<8.6	7	22	<1	40	<10	<1	<1	<1	<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
Benzene, 1,4-dichloro	5		1	7	<8.6	7	<1	<1	<1	<10	<1	<1	4	<5	<2	5	<2	3	5	5	2	6.3
Benzene, 1,2-dichloro	200		3	< 1.7	<8.6	<1	<1	<1	<1	<10	<1	<1	1	<5	<2	<2	<2	1	1	<4	1	<0.95
Propane, 1,2-dibromo-3-chloro						<1	<1	<1	<1		<1	<1	<1									
d-Limonene						not present	<1	<1	<1	<10	<1	<1	<1									
Methyl Ethyl Ketone (MEK)				< 17	<86		75							<100	<50	<50	<50	<20	<20	<100	<20	<20
Vinyl Chloride	2			< 4.3	<22									<5	<2	<2	<2	<0.5	<0.5	<4	<0.5	<0.5
Bromomethane				< 4.3	<22									<10	<5	<5	<5	<0.5	<0.5	<10	<0.5	<0.5
Chloroethane				4.7	<22													<1	2		1	1
Trichlorofluoromethane				< 2.6	<13											<2	<2	<5	<1	<4	<1	<1
1,1 - Dichloroethylene	14			< 1.7	<8.6									<3	<1	<1	<1	<0.5	<0.5	<2	<0.5	<0.5
Methyl - t - butylether (MTBE)				< 8.6	<43									<5	<2	<2	<2	<2	0.57	<4	0.6	0.59
1,1 - Dichloroethane		5		< 1.7	<8.6									<3	<1	<1	<1	<0.5	<0.5	<2	<0.5	<0.5
o - Xylene			300	190	<8.6	<1	<1	<1	<1	<10	<1	<1	<1	120	<1	46	5	8	59	83	3	6
Total Xylenes Calculated				240	25								100	140	7	62	10	13	64	89	12	67
1,1,1,2 Tetrachloroethane				< 1.7	<8.6									<3	<1	<1	<2	<0.5	<0.5	<4	<0.5	<0.5

Notes:
1. All units stated in ug/L
2. Definitions:
ODWS: Ontario Drinking Water Standards
MAC: Maximum Acceptable Concentration
IMAC: Interim Maximum Acceptable Concentration
AO: Aesthetic Objective

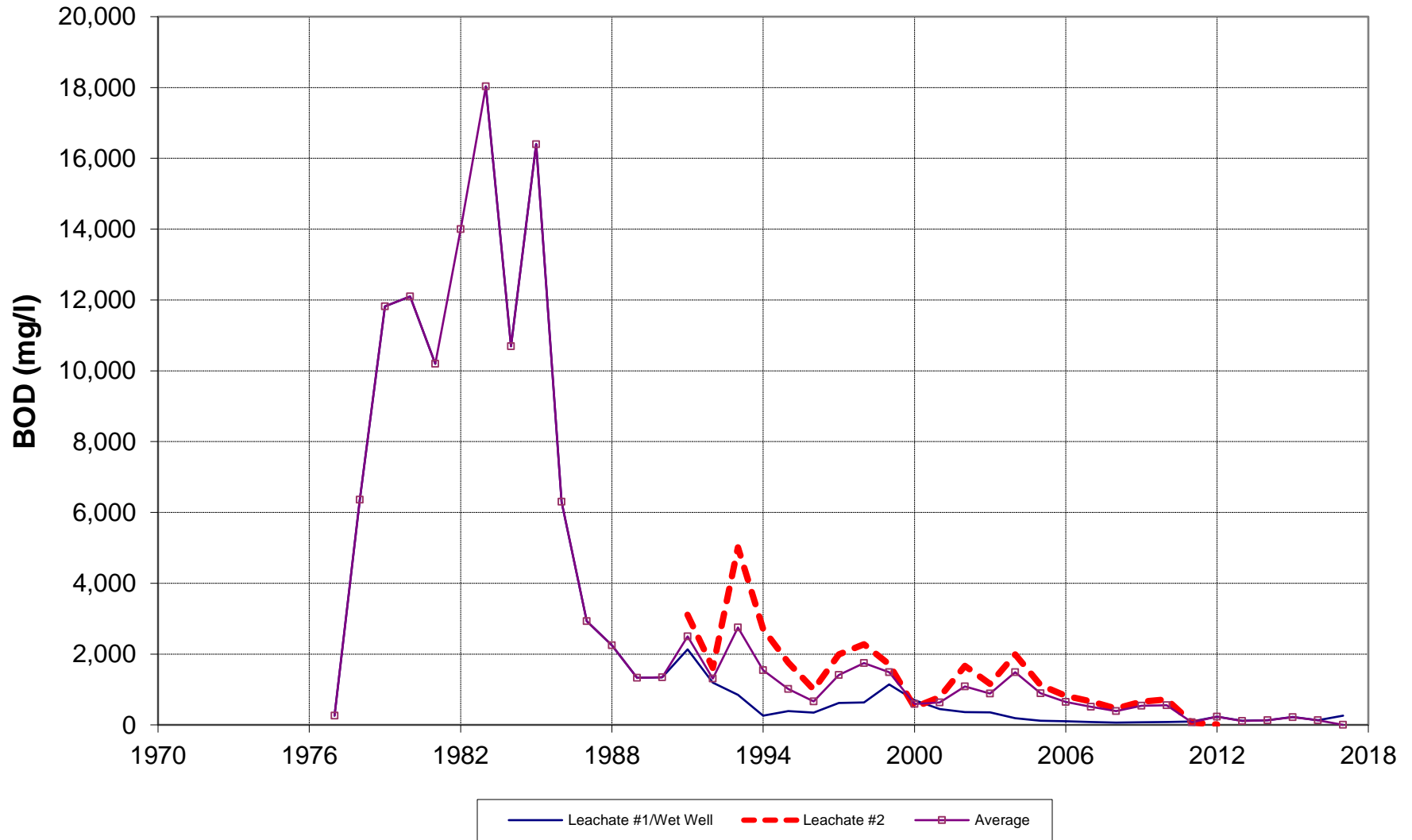
W12A Leachate



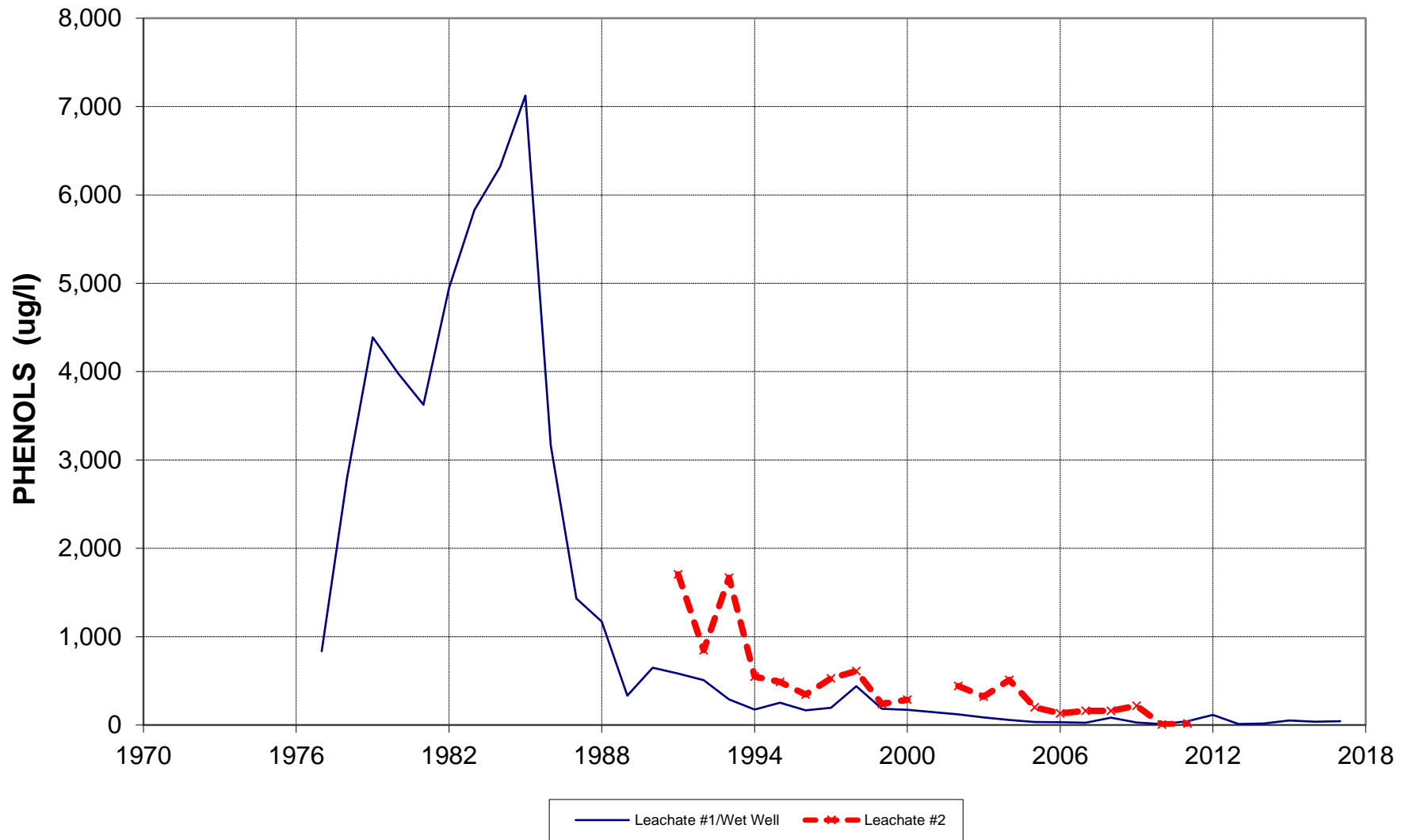
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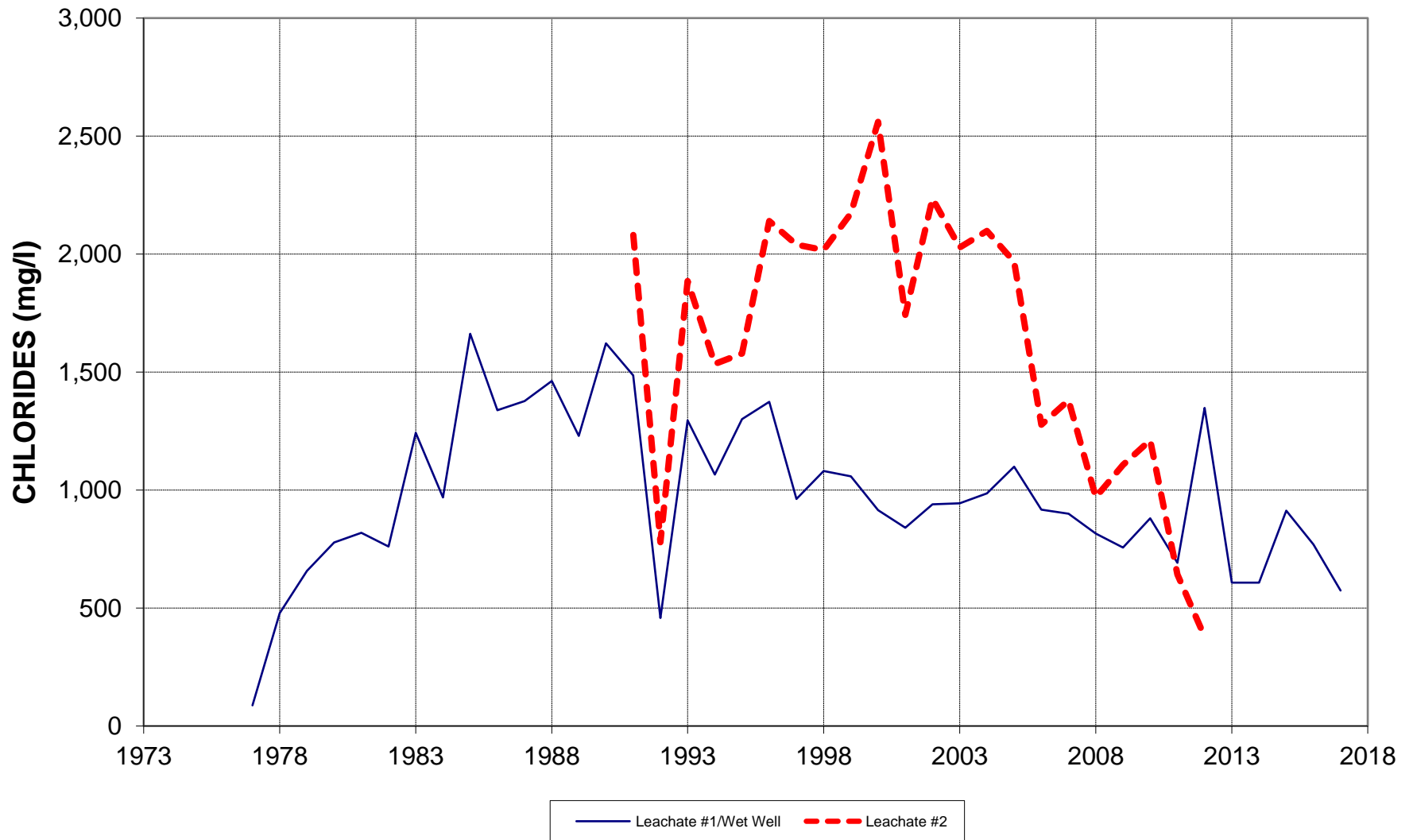
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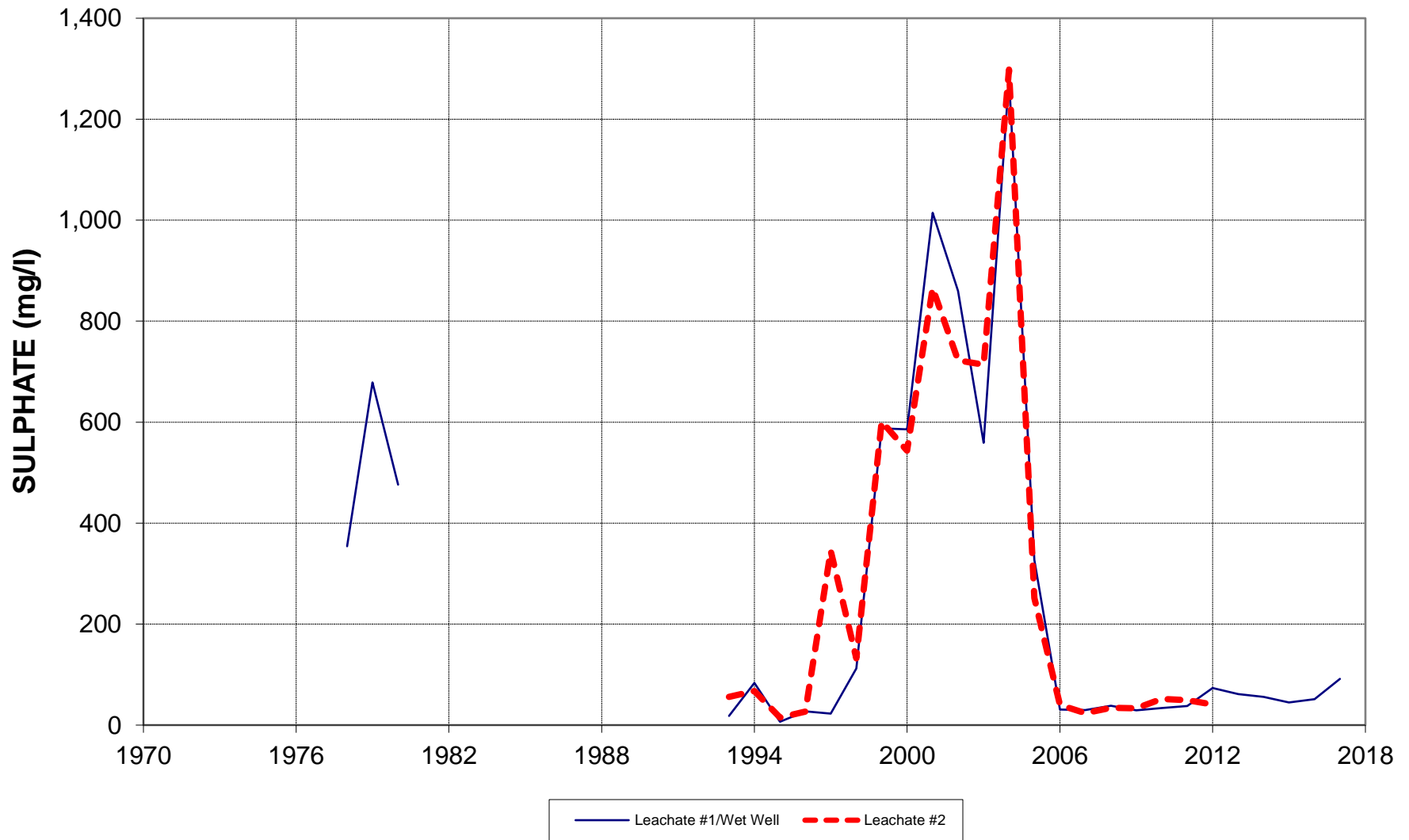
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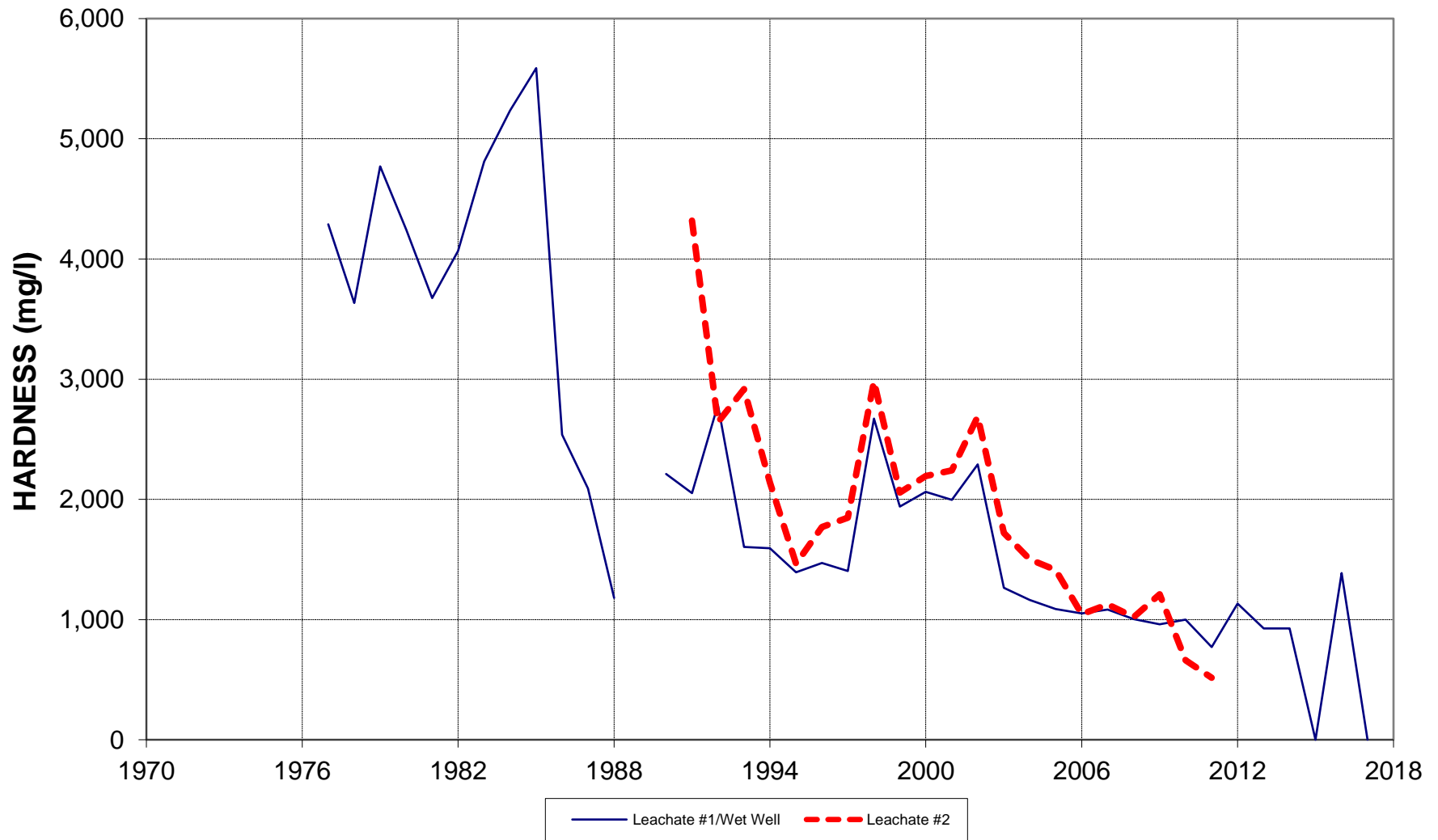
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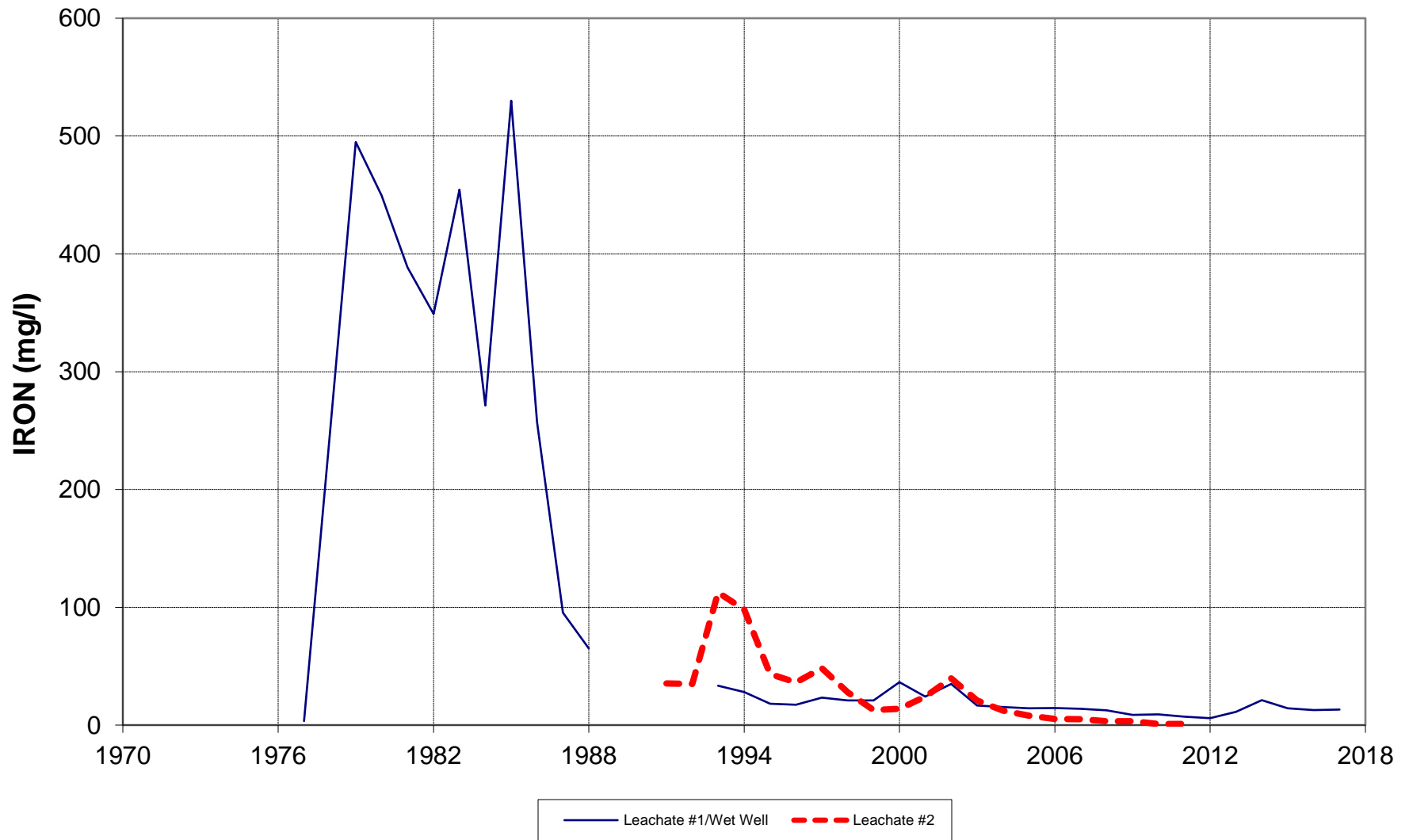
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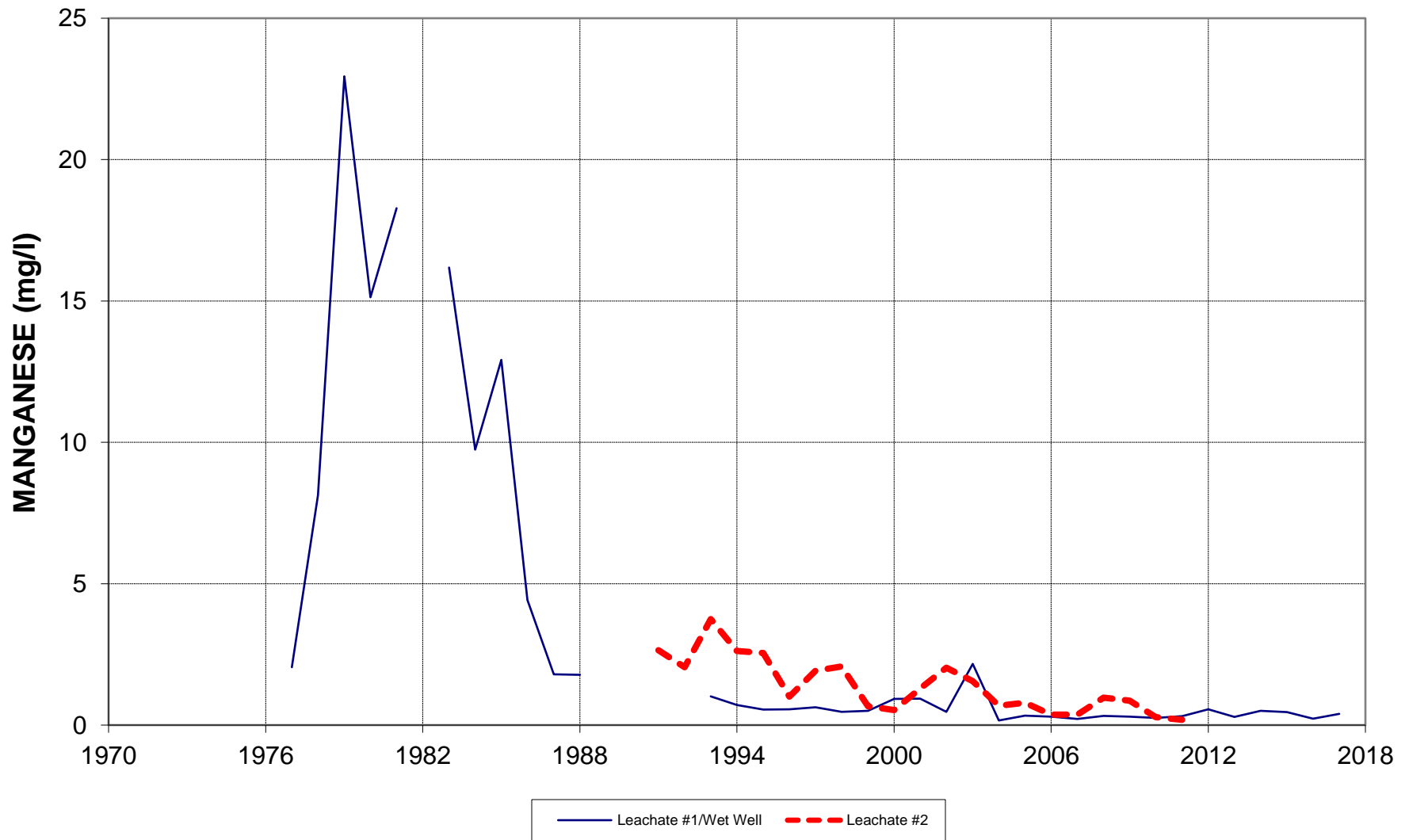
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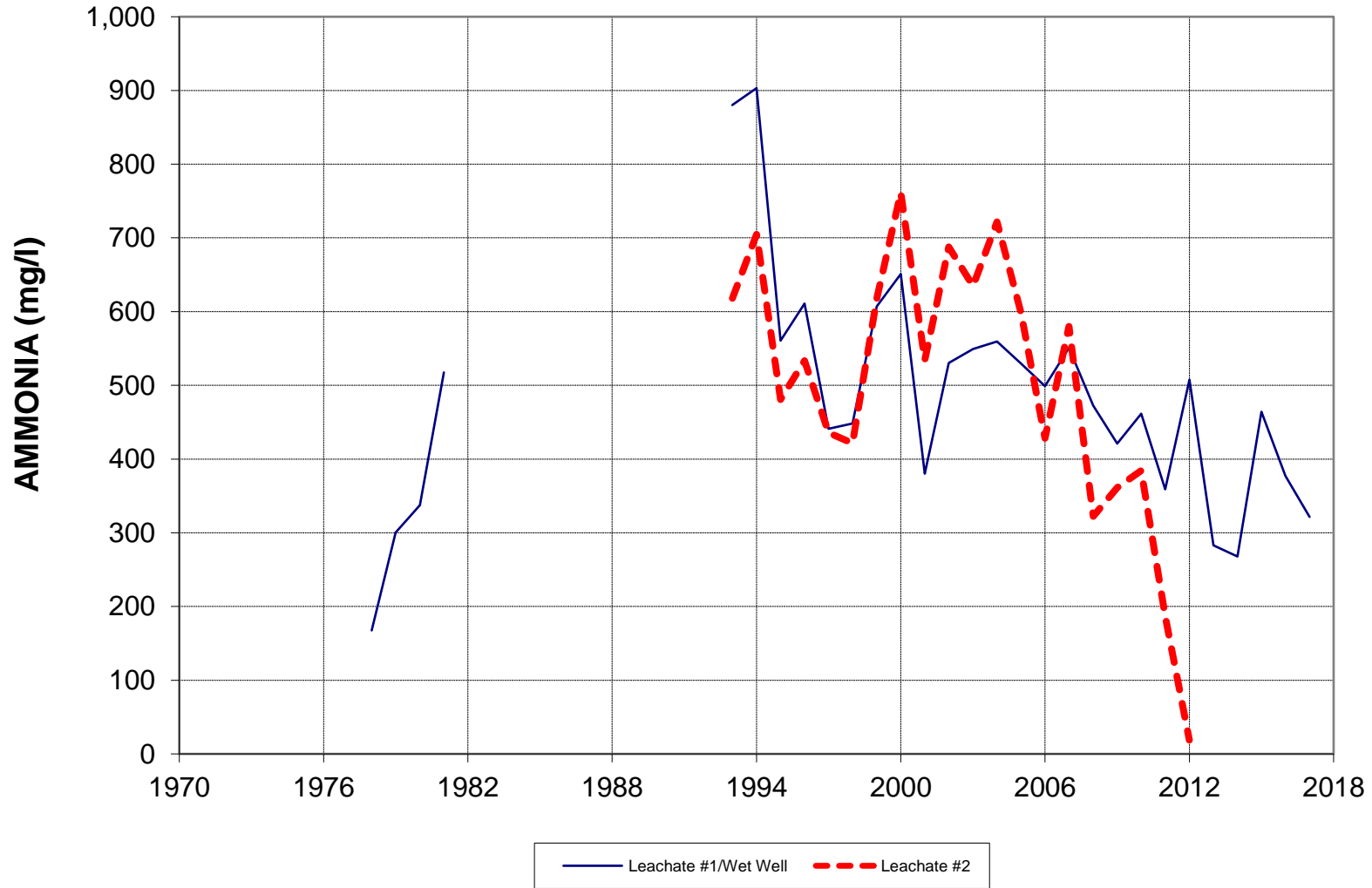
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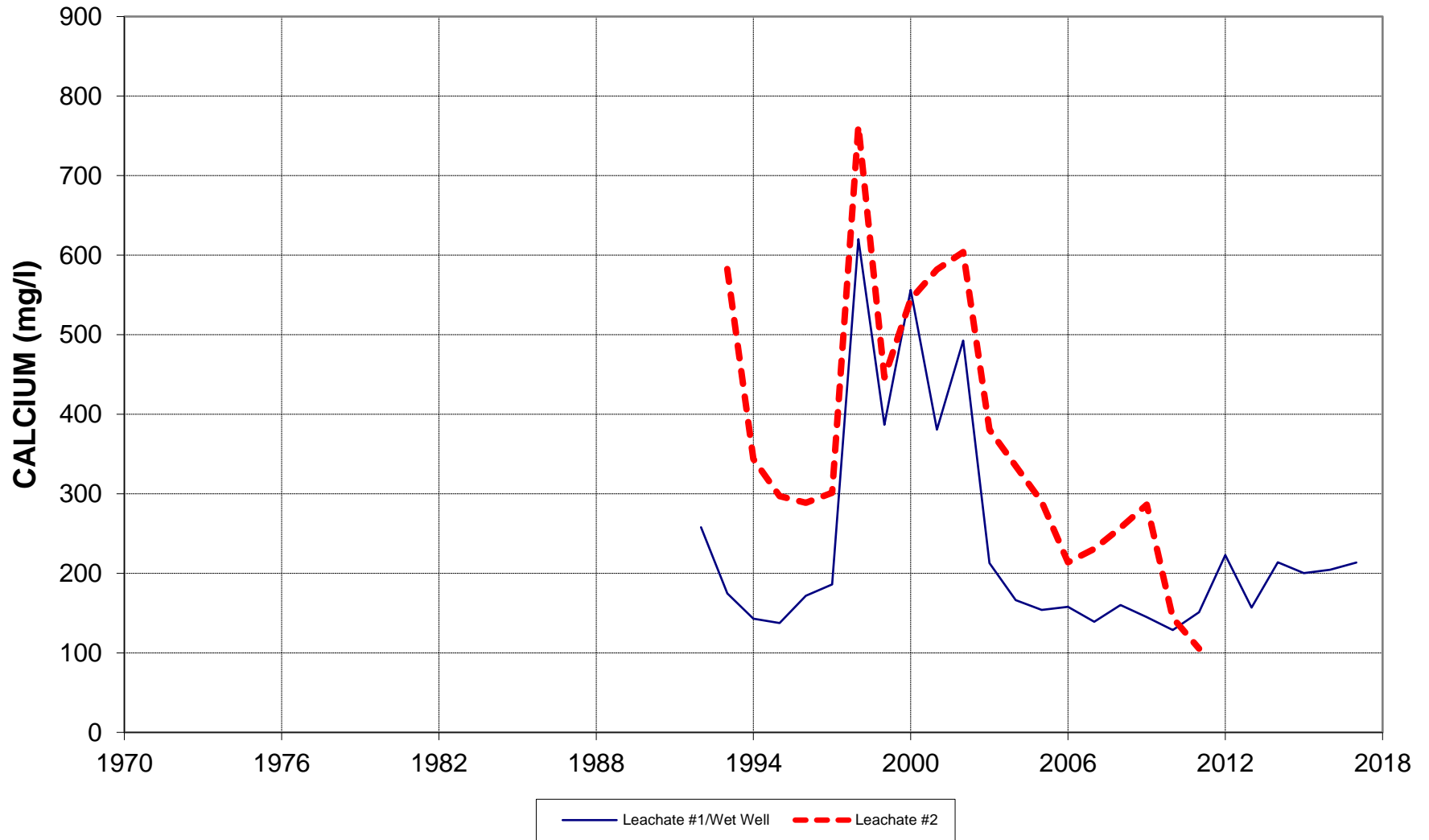
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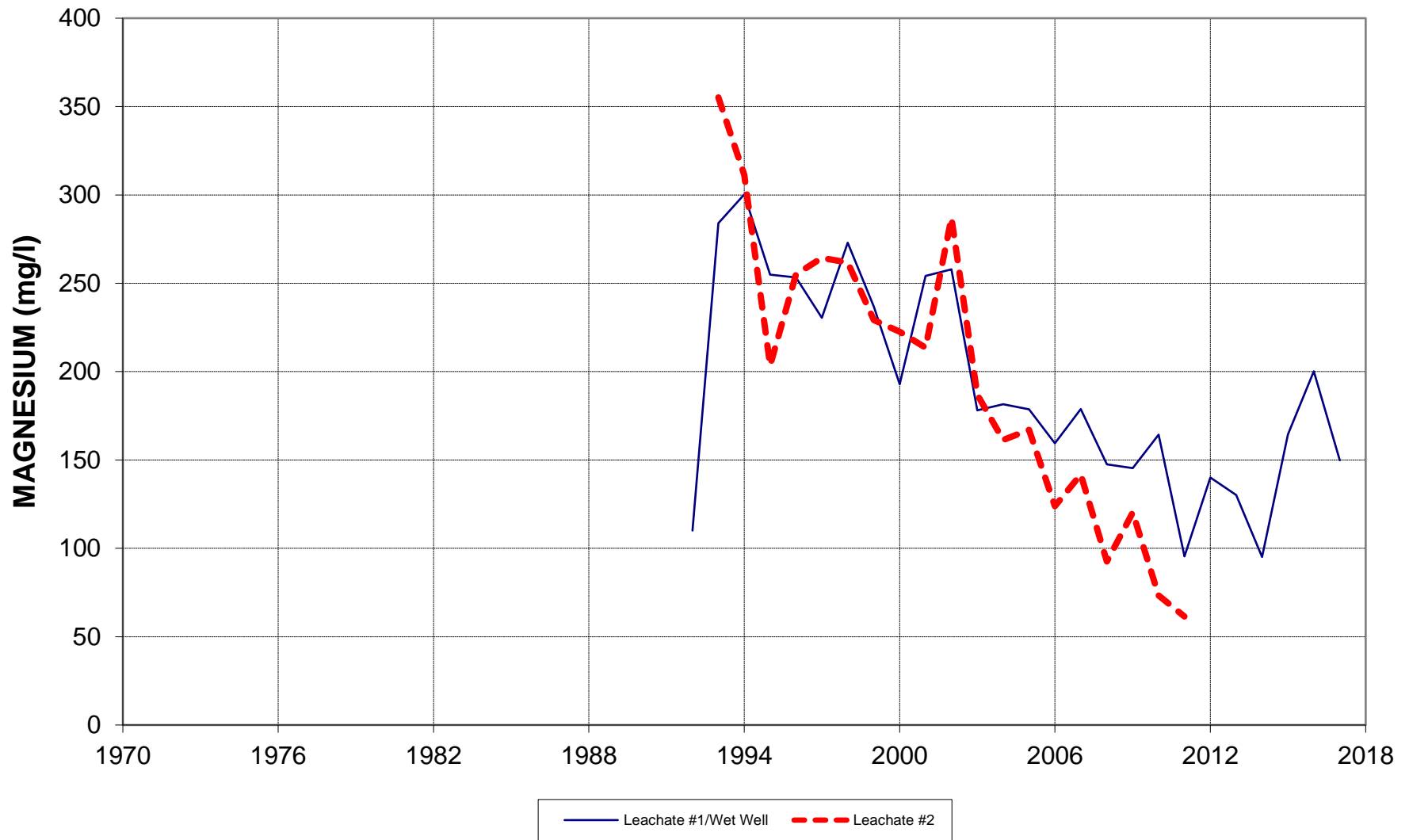
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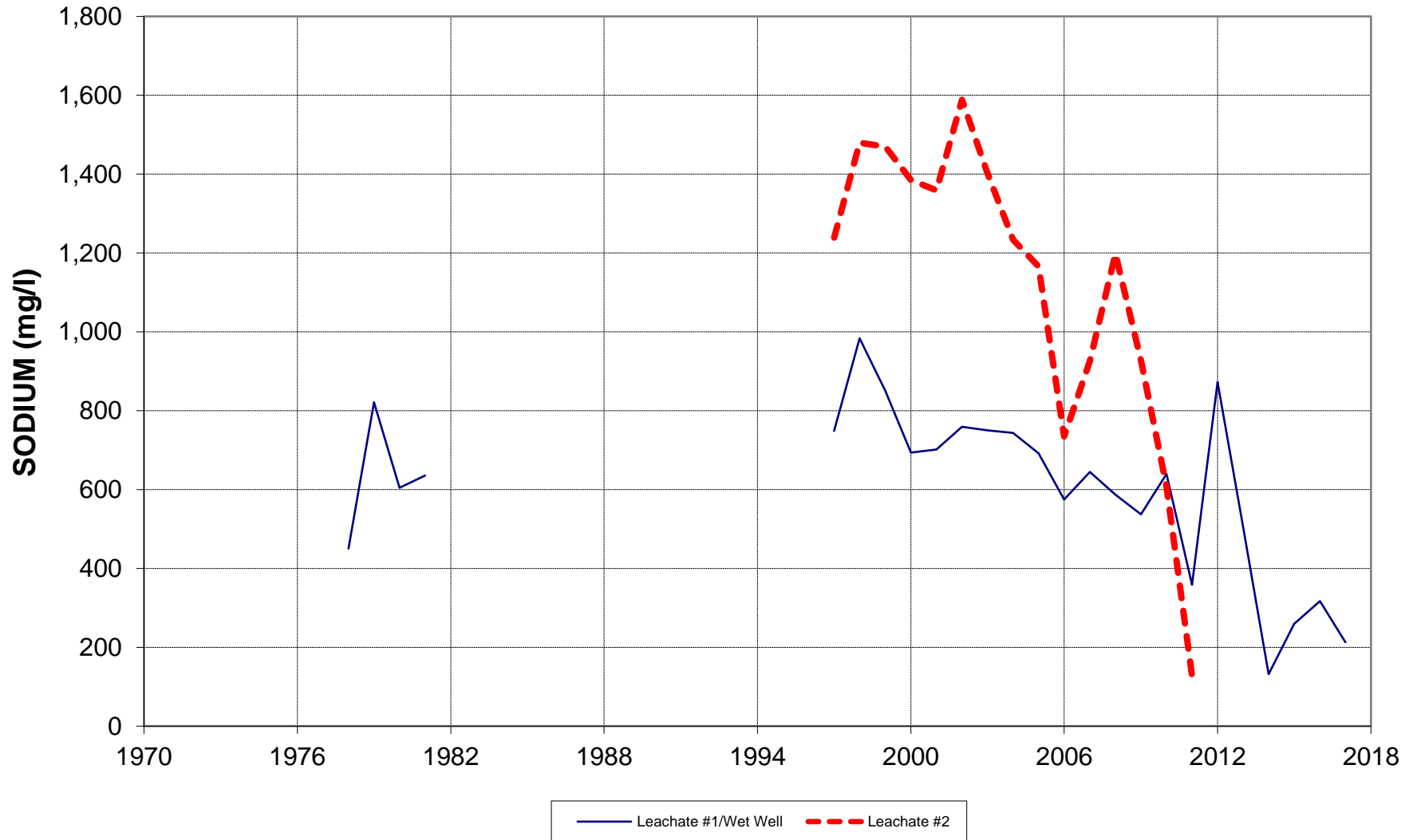
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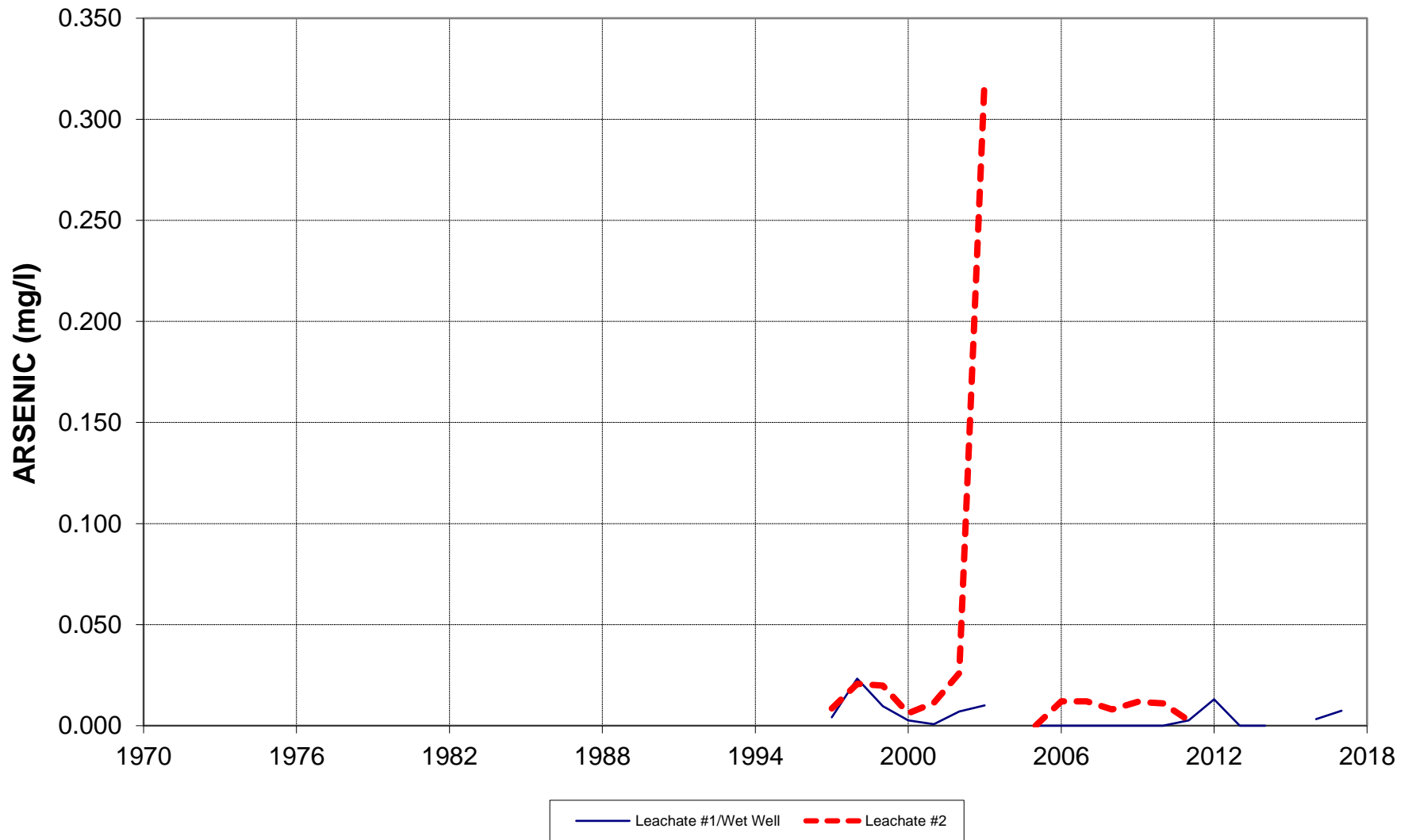
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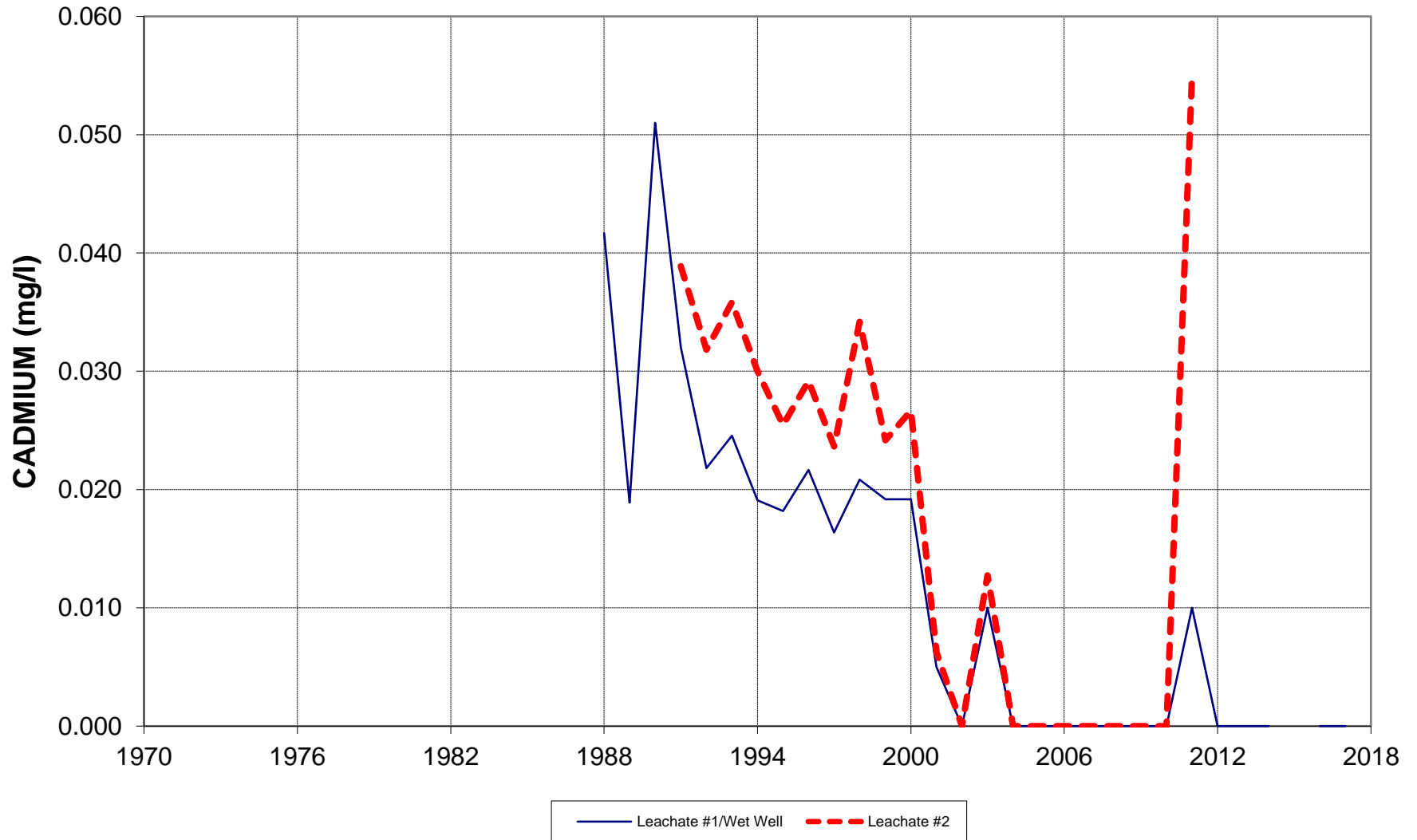
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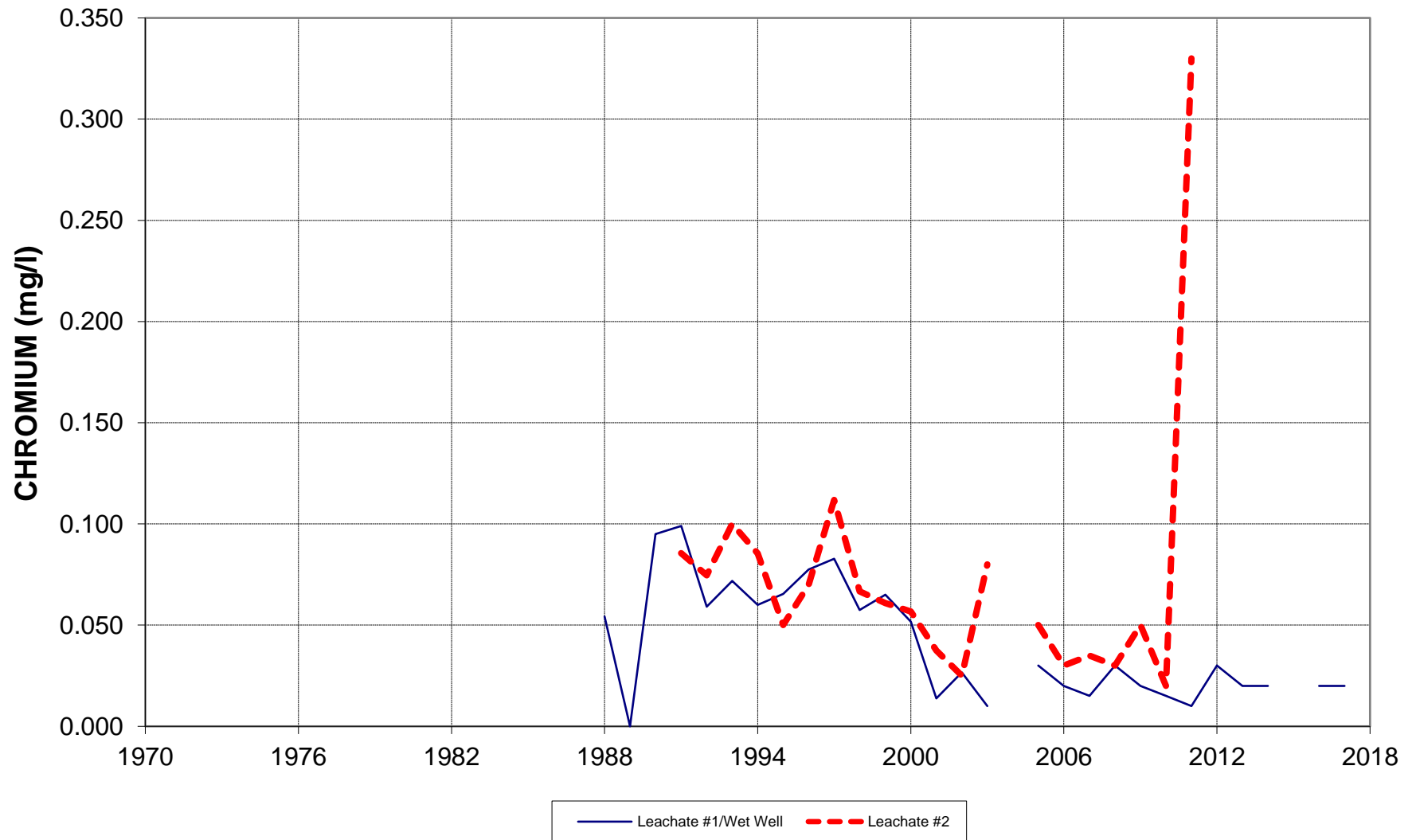
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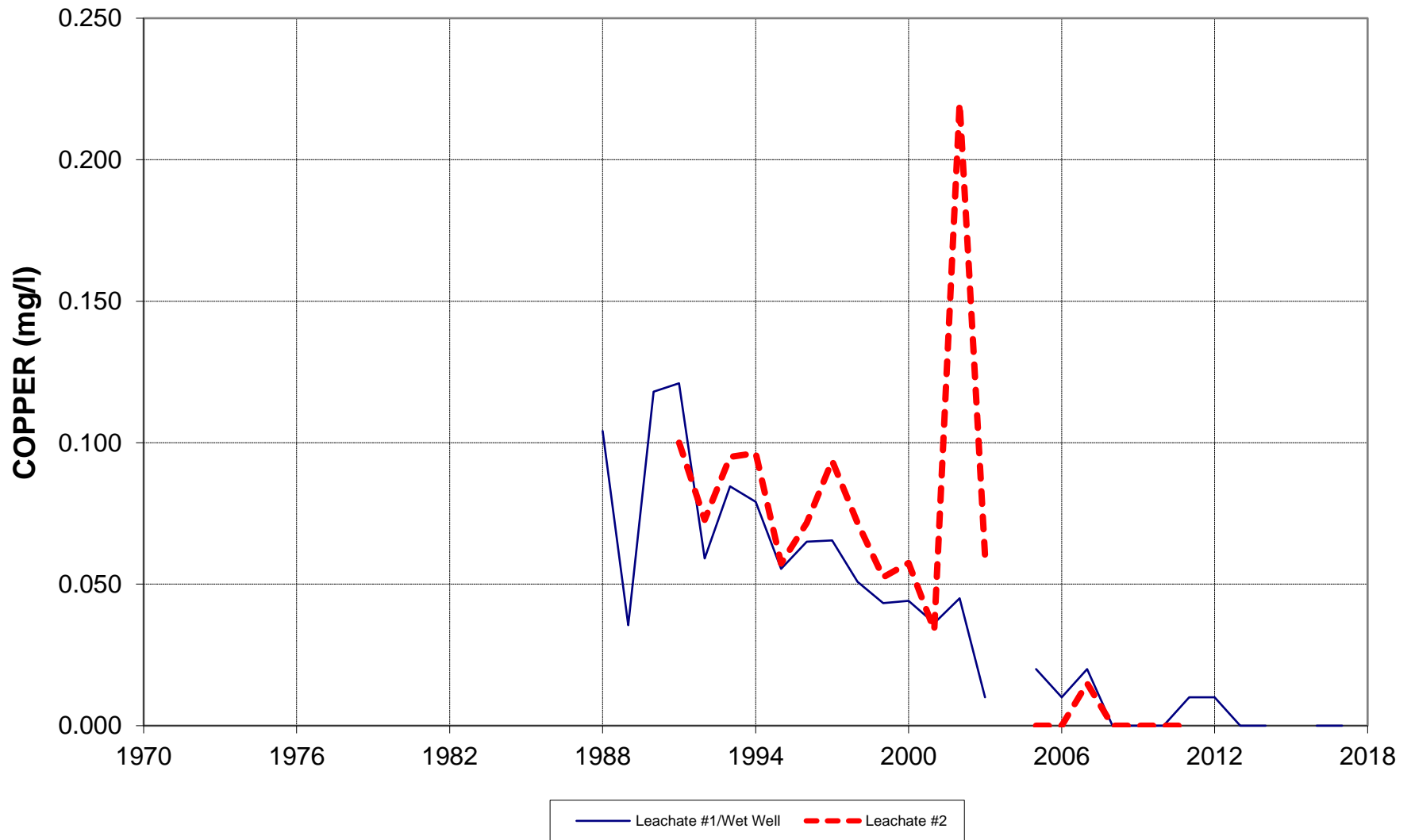
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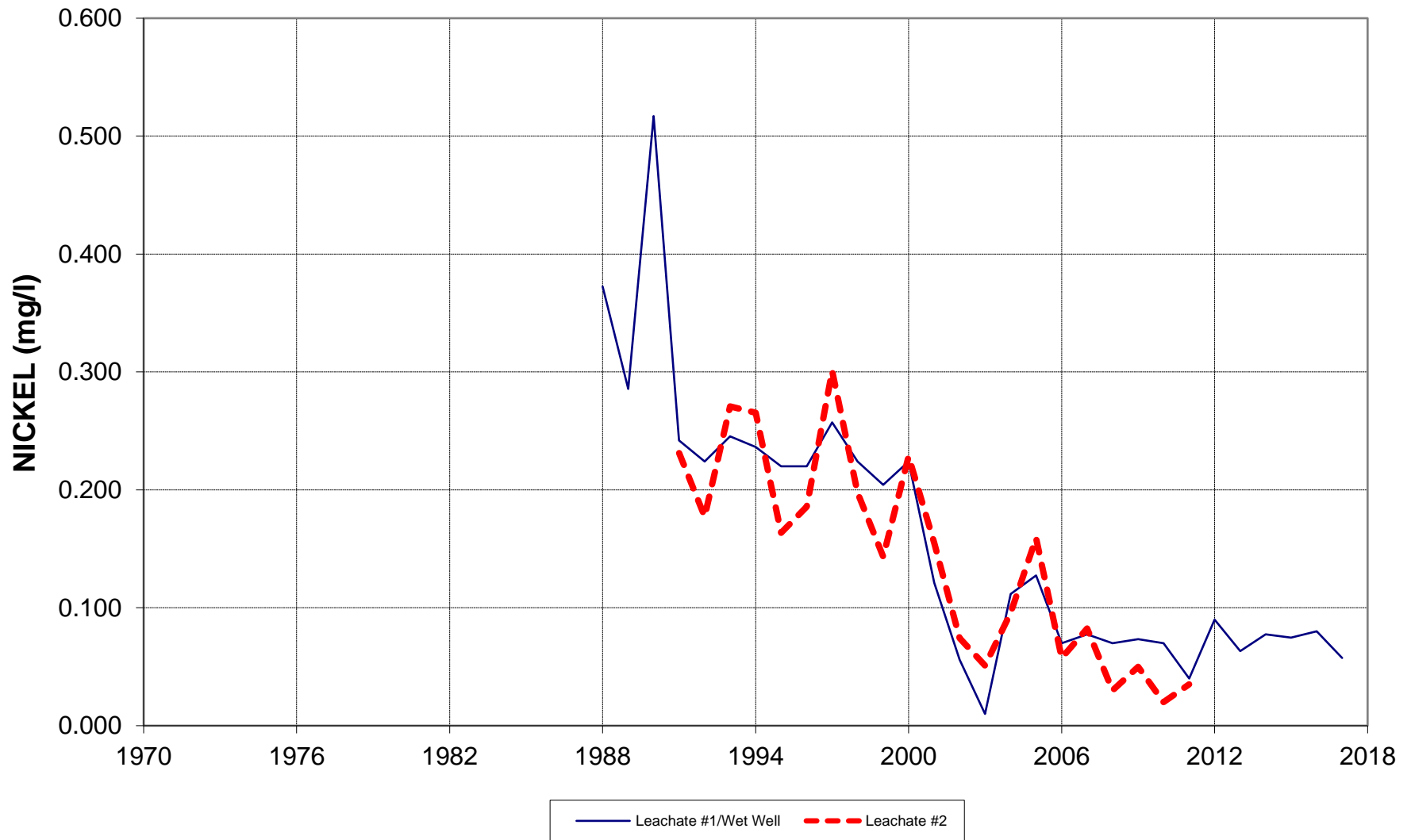
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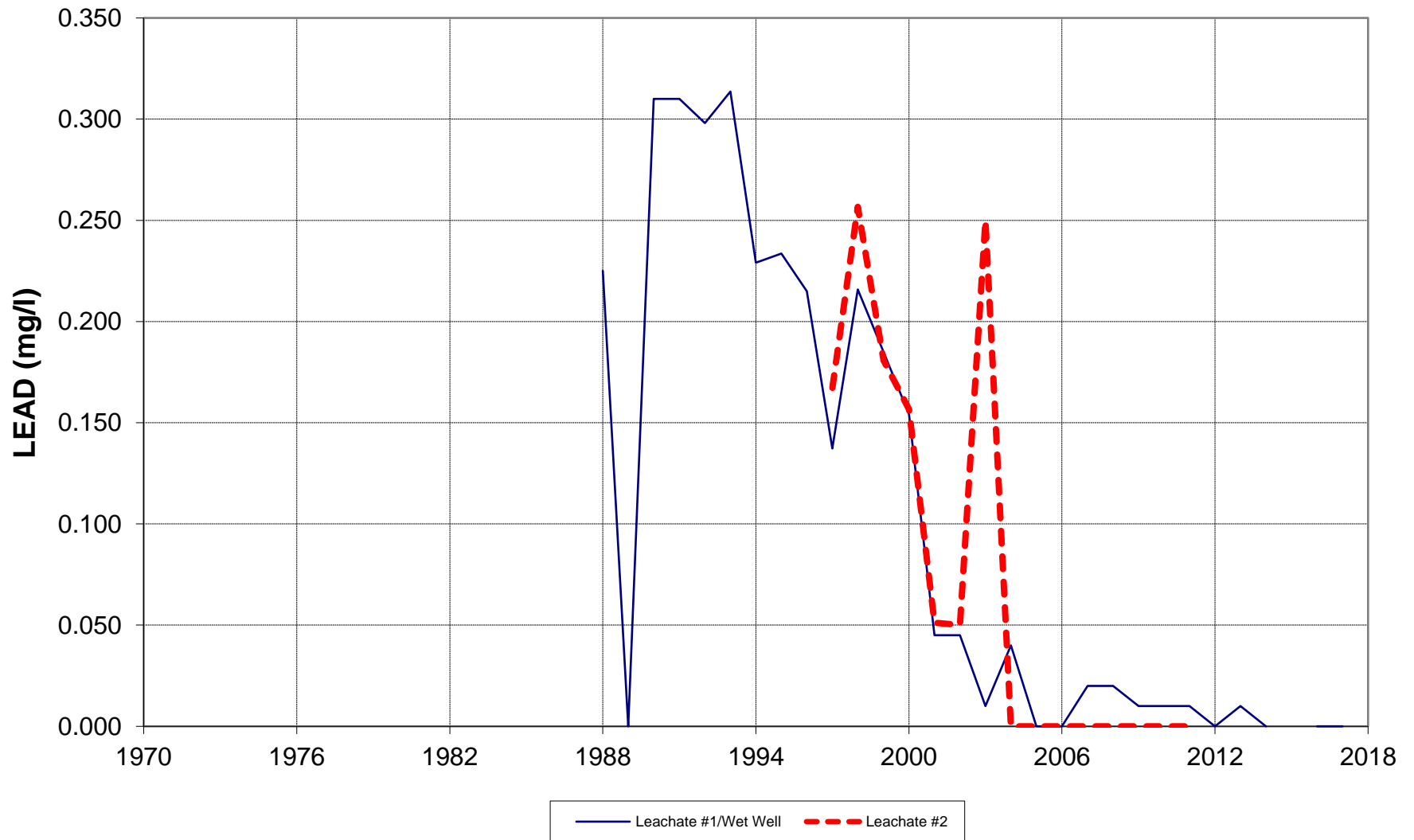
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W12A Leachate



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W12A Leachate

