

Solid Waste Perflourochemicals (PFCs) Evaluation
Treated Leachate Prior to Spray Irrigation Land Application
2007 and 2008 Sampling Events

CLIENT ID	Blue Earth Co. Leachate	Blue Earth / Ponderosa Leachate	Brown Co. Leachate	Brown Co. Leachate
Date	2007	2008	2007	2008
AXYS ID	L10021-12 (A)	L11647-15 (A)	L9961-22	L11647-19
WORKGROUP	WG22525	WG26441	WG22330	WG26441
Sample Size	0.141 L	0.128 L	0.194 L	0.500 L
UNITS	ng/L	ng/L	ng/L	ng/L
PFBA	591	692	191	194
PFPeA	316	340	152	98.9
PFHxA	706	735	415	310
PFHpA	310	331	206	188
PFOA	576	532	179	236
PFNA	< 8.88	< 9.73	11.9	9.64
PFDA	< 8.88	< 9.73	< 6.43	< 2.50
PFUnA	< 8.88	< 9.73	< 6.43	< 2.50
PFDoA	< 8.88	< 9.73	< 6.43	< 2.50
PFBS	63.3	75.5	61.4	26.1
PFHxS	142	140	199	174
PFOS	< 17.8	35.4	29.6	33.1
PFOSA	< 8.88	< 9.73	< 6.43	4.07

NOTES:

1. ng/l: Nanograms per liter (parts per trillion (ppt))

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CLIENT ID	Crow Wing Co. Leachate	Crow Wing Co. Leachate	Markit Leachate	Markit Leachate
Date	2007	2008	2007	2008
AXYS ID	L9993-13	L11701-12 (A)	L9993-12	L11603-21
WORKGROUP	WG22394	WG26521	WG22394	WG26307
Sample Size	0.140 L	0.0390 L	0.196 L	0.518 L
UNITS	ng/L	ng/L	ng/L	ng/L
PFBA	1300	1070	235	5.76
PFPeA	803	477	336	3.64
PFHxA	2490	1640	539	9.03
PFHpA	365	295	63.9	7.33
PFOA	127	95.8	7.49	33.5
PFNA	< 8.95	< 32.1	< 6.37	2.43
PFDA	< 8.95	< 32.1	< 6.37	< 2.41
PFUnA	< 8.95	< 32.1	< 6.37	< 2.41
PFDoA	< 8.95	< 32.1	< 6.37	< 2.41
PFBS	401	455	< 12.7	4.86
PFHxS	63.7	< 64.2	< 12.7	17.5
PFOS	< 17.9	< 64.2	< 12.7	11.2
PFOSA	< 8.95	< 32.1	< 6.37	< 2.41

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CLIENT ID	Morrison Co. Leachate	Morrison Co. Leachate	Rice Co. Leachate	Rice Co. Leachate Dup
Date	2007	2008	2007	2007
AXYS ID	L9993-14	L11701-13	L10021-13 (A)	L10021-14 (A)
WORKGROUP	WG22431	WG26521	WG22525	WG22525
Sample Size	0.194 L	0.260 L	0.0915 L	0.0961 L
UNITS	ng/L	ng/L	ng/L	ng/L
PFBA	410	94.6	422	357
PFPeA	73.6	127	162	150
PFHxA	805	597	934	931
PFHpA	125	108	335	342
PFOA	< 6.45	71.1	146	155
PFNA	< 6.45	< 4.80	< 13.7	< 13.0
PFDA	< 6.45	< 4.80	< 13.7	< 13.0
PFUnA	< 6.45	< 4.80	< 13.7	< 13.0
PFDoA	< 6.45	< 4.80	< 13.7	< 13.0
PFBS	27	81.4	41.2	52.9
PFHxS	< 12.9	84	80.8	88.7
PFOS	< 12.9	< 9.61	< 27.3	< 26.0
PFOSA	< 6.45	< 4.80	< 13.7	< 13.0

NOTES:

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CLIENT ID	Rice Co. Leachate	St. Louis Co - Leachate	St. Louis Regional Leachate	St. Louis Regional Leachate
Date	2008	2006	2007	2008
AXYS ID	L11647-18	L8792-3	L9924-6	L11561-5
WORKGROUP	WG26441	WG18790	WG22125	WG26175
Sample Size	0.309 L	0.242 L	0.300 L	0.505 L
UNITS	ng/L	ng/L	ng/L	ng/L
PFBA	236	8.06	753	D 263
PFPeA	141	38.2	161	168
PFHxA	464	424	483	619
PFHpA	155	265	170	248
PFOA	172	494	365	243
PFNA	14.4	31	15.6	7
PFDA	7.73	4.81	< 4.62	< 2.47
PFUnA	< 4.04	< 1.97	< 5.41	< 2.47
PFDoA	< 4.04	< 2.35	< 4.14	< 7.42
PFBS	68.1	86.8	25.7	16.7
PFHxS	134	587	291	177
PFOS	50.6	121	53.2	8.51
PFOSA	< 4.04	2.15	< 3.77	< 2.47

NOTES:

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