

TABLE 9
Soil TEQ Calculations
Proposed Strecker Forest Development
Wildwood, Missouri
MUNDELL Project No. 08044

Sample Location		2005 World Health Organization TEF	B-01	B-02	B-03	B-04	B-05	B-06	DUP-2 (B-06)	B-07
(Depth)	Chemical Constituent		Units	(0.5-2.0')	(2.0-3.0')	(1.0-2.0')	(0.0-1.0')	(0.5-2.5')	(0.0-2.0')	(0.0-2.0')
Reported result was multiplied by TEF. Non-detects were assigned a value of zero.										
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g	0.01	32	120	52	85	55	11	78	6.2
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g	0.01	0.099	0	0	2.1	0	0	2.5	0
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g	0.01	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HxCDD	pg/g	0.1	0.17	0.83	0.45	0.81	0.56	0	0.94	0
1,2,3,4,7,8-HxCDF	pg/g	0.1	0	0	0	0.19	0	0	0.17	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g	0.1	0.19	0.86	0.64	1.4	0.73	0	1.5	0
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g	0.1	0	0	0	0.35	0	0	0.39	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g	0.1	0.35	1.4	0.74	1.7	1	0	2	0
1,2,3,7,8,9-HxCDF	pg/g	0.1	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g	1	0	0	0	0	0.22	0	0.46	0
1,2,3,7,8-PeCDF (pentafulan)	pg/g	0.03	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g	0.1	0	0	0	0.2	0	0	0.12	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g	0.3	0	0	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g	1	0	0	0	1.6	0	0	3.5	0
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g	0.1	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g	0.0003	4000	14000	3900	6500	4300	540	4600	320
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g	0.0003	0.21	0	0	2.3	0	3.1	1.5	0.23
Resulting Calculations										
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g		0.32	1.2	0.52	0.85	0.55	0.11	0.78	0.062
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g		0.00099	0	0	0.021	0	0	0.025	0
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g		0	0	0	0	0	0	0	0
1,2,3,4,7,8-HxCDD	pg/g		0.017	0.083	0.045	0.081	0.056	0	0.094	0
1,2,3,4,7,8-HxCDF	pg/g		0	0	0	0.019	0	0	0.017	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g		0.019	0.086	0.064	0.14	0.073	0	0.15	0
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g		0	0	0	0.035	0	0	0.039	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g		0.035	0.14	0.074	0.17	0.1	0	0.2	0
1,2,3,7,8,9-HxCDF	pg/g		0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g		0	0	0	0	0.22	0	0.46	0
1,2,3,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g		0	0	0	0.02	0	0	0.012	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g		0	0	0	1.6	0	0	3.5	0
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g		0	0	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g		1.2	4.2	1.17	1.95	1.29	0.162	1.38	0.096
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g		0.000063	0	0	0.00069	0	0.00093	0.00045	0.000069
	Calculated Site Background TEQ									
TEQ	4.95		1.59	5.71	1.87	4.89	2.29	0.27	6.66	0.16

NOTES:

- 1) All Dioxins and Furans results obtained using U.S. EPA SW-846 Method 16
- 2) TEQ = Toxic Equivalence
- 3) TEF = Toxic Equivalent Factor

TABLE 9
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Proposed Strecker Forest Development
Wildwood, Missouri
MUNDELL Project No. 08044

Sample Location		2005 World Health Organization TEF	B-08	B-09	B-10	B-11	DUP-1 (B-11)	B-12	B-13	B-14	B-15
(Depth)	Units		(0.0-1.0')	(0.5-2.0')	(0.5-2.0')	(10.0-14.0')	(10.0-14.0')	(3.0-5.0')	(13.0-15.0')	(6.0-9.0')	(13.0-17.0')
Reported result was multiplied by TEF. Non-detects were assigned a value of zero.											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g	0.01	50	2.6	66	17	74	120	4	120	11
1,2,3,4,6,7,8-HpCDF (heptafulan)	pg/g	0.01	5.3	0	10	0	0	0	0	0	0
1,2,3,4,7,8,9-HpCDF (heptafulan)	pg/g	0.01	0	0	0.48	0	0	0	0	0	0
1,2,3,4,7,8-HxCDD	pg/g	0.1	0.46	0	0.31	0	0.65	0.42	0	0.61	0
1,2,3,4,7,8-HxCDF	pg/g	0.1	0.48	0	0.77	0	0	0	0	0	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g	0.1	1	0	3.8	0	0.92	0.6	0	0.6	0.18
1,2,3,6,7,8-HxCDF (hexafulan)	pg/g	0.1	0.51	0	1.2	0	0	0.14	0	0	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g	0.1	1.1	0	1.1	0.46	1.4	0.36	2.4	1.3	0
1,2,3,7,8,9-HxCDF	pg/g	0.1	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g	1	0.26	0	0.24	0	0	0	0	0.14	0
1,2,3,7,8-PeCDF (pentafulan)	pg/g	0.03	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafulan)	pg/g	0.1	0.23	0	0.25	0	0	0	0	0	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g	0.3	0	0	0.2	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g	1	3.7	0	150	0	0	0	0	0	0.35
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g	0.1	0.18	0	1	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g	0.0003	2000	110	1600	840	3800	25000	660	16000	760
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g	0.0003	9.3	0	16	0.22	0.18	0.76	0.15	0.19	0.23
Resulting Calculations											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g		0.5	0.026	0.66	0.17	0.74	1.2	0.04	1.2	0.11
1,2,3,4,6,7,8-HpCDF (heptafulan)	pg/g		0.053	0	0.1	0	0	0	0	0	0
1,2,3,4,7,8,9-HpCDF (heptafulan)	pg/g		0	0	0.0048	0	0	0	0	0	0
1,2,3,4,7,8-HxCDD	pg/g		0.046	0	0.031	0	0.065	0.042	0	0.061	0
1,2,3,4,7,8-HxCDF	pg/g		0.048	0	0.077	0	0	0	0	0	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g		0.1	0	0.38	0	0.092	0.06	0	0.06	0.018
1,2,3,6,7,8-HxCDF (hexafulan)	pg/g		0.051	0	0.12	0	0	0.014	0	0	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g		0.11	0	0.11	0.046	0.14	0.036	0.24	0.13	0
1,2,3,7,8,9-HxCDF	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g		0.26	0	0.24	0	0	0	0	0.14	0
1,2,3,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafulan)	pg/g		0.023	0	0.025	0	0	0	0	0	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g		0	0	0.06	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g		3.7	0	150	0	0	0	0	0	0.35
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g		0.018	0	0.1	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g		0.6	0.033	0.48	0.252	1.14	7.5	0.198	4.8	0.228
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g		0.00279	0	0.0048	0.000066	0.000054	0.000228	0.000045	0.000057	0.000069
	Calculated Site Background TEQ										
TEQ		4.95	5.51	0.06	152.39	0.47	2.18	8.85	0.48	6.39	0.71

NOTES:
1) All Dioxins and Furans results obtained using U.S. EPA SW-846 Method 16
2) TEQ = Toxic Equivalence
3) TEF = Toxic Equivalent Factor

TABLE 9
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Wildwood, Missouri
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Sample Location		2005 World Health Organization TEF	B-16	B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24
(Depth)	Units		(8.0-10.0')	(4.0-5.0')	(7.5-9.5')	(1.0-2.0')	(6.0-7.0')	(0.0-1.0')	(5.0-7.0')	(0.0-1.0')	(1.0-2.0')
Reported result was multiplied by TEF. Non-detects were assigned a value of zero.											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g	0.01	26	23	110	160	4.1	32	9.9	110	140
1,2,3,4,6,7,8-HpCDF (heptafulan)	pg/g	0.01	0.43	0.31	0	0	0	0.91	0	0.2	0
1,2,3,4,7,8,9-HpCDF (heptafulan)	pg/g	0.01	0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HxCDD	pg/g	0.1	0.3	0	12	0.26	0	0.21	0	0.95	0.27
1,2,3,4,7,8-HxCDF	pg/g	0.1	0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g	0.1	0.39	0	0.88	0.33	0	0.3	0	1.3	0.32
1,2,3,6,7,8-HxCDF (hexafulan)	pg/g	0.1	0	0	0	0	0	0.083	0	0	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g	0.1	0.52	0.2	1.5	0.59	0.21	0.65	0.37	2	1
1,2,3,7,8,9-HxCDF	pg/g	0.1	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g	1	0	0	0.34	0	0	0	0	0.3	0
1,2,3,7,8-PeCDF (pentafulan)	pg/g	0.03	0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafulan)	pg/g	0.1	0.2	0	0	0	0	0	0	0	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g	0.3	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g	1	0	0	0	0	0	0	0	0	0
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g	0.1	0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g	0.0003	2100	1200	5200	72000	450	3100	820	11000	29000
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g	0.0003	0.3	0.38	0	0.63	0	1.8	0	0.36	0.47
Resulting Calculations											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g		0.26	0.23	1.1	1.6	0.041	0.32	0.099	1.1	1.4
1,2,3,4,6,7,8-HpCDF (heptafulan)	pg/g		0.0043	0.0031	0	0	0	0.0091	0	0.002	0
1,2,3,4,7,8,9-HpCDF (heptafulan)	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,4,7,8-HxCDD	pg/g		0.03	0	1.2	0.026	0	0.021	0	0.095	0.027
1,2,3,4,7,8-HxCDF	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g		0.039	0	0.088	0.033	0	0.03	0	0.13	0.032
1,2,3,6,7,8-HxCDF (hexafulan)	pg/g		0	0	0	0	0	0.0083	0	0	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g		0.052	0.02	0.15	0.059	0.021	0.065	0.037	0.2	0.1
1,2,3,7,8,9-HxCDF	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g		0	0	0.34	0	0	0	0	0.3	0
1,2,3,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafulan)	pg/g		0.02	0	0	0	0	0	0	0	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g		0	0	0	0	0	0	0	0	0
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g		0.63	0.36	1.56	21.6	0.135	0.93	0.246	3.3	8.7
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g		0.00009	0.000114	0	0.000189	0	0.00054	0	0.000108	0.000141
	Calculated Site Background TEQ										
TEQ	4.95		1.04	0.61	4.44	23.32	0.20	1.38	0.38	5.13	10.26

NOTES:
1) All Dioxins and Furans results obtained using U.S. EPA SW-846 Method 16
2) TEQ = Toxic Equivalence
3) TEF = Toxic Equivalent Factor

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Wildwood, Missouri
MUNDELL Project No. 08044

Sample Location		2005 World Health Organization TEF	B-25	B-26	B-27	B-28	B-29	B-30	B-31	B-32	B-33
(Depth)	Units		(0.5-1.5')	(8.0-10.0')	(0.5-2.5')	(0.5-1.5')	(0.5-2.0')	(0.0-1.0')	(0.5-2.5')	(11.0-14.0')	(4.0-8.0')
Reported result was multiplied by TEF. Non-detects were assigned a value of zero.											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g	0.01	38	67	65	96	4.8	97	29	42	14
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g	0.01	0.56	0	2.3	0.19	0.1	0.49	0.14	12	0.19
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g	0.01	0	0	0.18	0	0	0	0	0.55	0
1,2,3,4,7,8-HxCDD	pg/g	0.1	0.51	0.43	0.58	1.1	0	0.65	0.19	0.36	0
1,2,3,4,7,8-HxCDF	pg/g	0.1	0.12	0	0.42	0	0	0	0	0.64	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g	0.1	1.1	0.63	1.2	1.4	0	0.85	0.17	1.7	0
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g	0.1	0.65	0	0.35	0	0	0	0	0.19	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g	0.1	1.3	0.95	1.9	1.9	0.16	1.3	0.3	0.73	0.26
1,2,3,7,8,9-HxCDF	pg/g	0.1	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g	1	0.37	0.14	0.35	0.3	0	0	0	0	0.17
1,2,3,7,8-PeCDF (pentafulan)	pg/g	0.03	0	0	0.18	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g	0.1	0.13	0	0.22	0	0	0	0	0	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g	0.3	0	0	0.18	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g	1	0	0	0.65	0	0	0	0	0.85	0
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g	0.1	0	0	0.48	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g	0.0003	2000	9000	6100	7600	210	19000	7100	960	2700
1,2,3,4,6,7,8,9-OCDF (octafuran)	pg/g	0.0003	2.5	1.7	3.1	0.26	0	1	0.4	19	0.22
Resulting Calculations											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g		0.38	0.67	0.65	0.96	0.048	0.97	0.29	0.42	0.14
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g		0.0056	0	0.023	0.0019	0.001	0.0049	0.0014	0.12	0.0019
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g		0	0	0.0018	0	0	0	0	0.0055	0
1,2,3,4,7,8-HxCDD	pg/g		0.051	0.043	0.058	0.11	0	0.065	0.019	0.036	0
1,2,3,4,7,8-HxCDF	pg/g		0.012	0	0.042	0	0	0	0	0.064	0
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g		0.11	0.063	0.12	0.14	0	0.085	0.017	0.17	0
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g		0.065	0	0.035	0	0	0	0	0.019	0
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g		0.13	0.095	0.19	0.19	0.016	0.13	0.03	0.073	0.026
1,2,3,7,8,9-HxCDF	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g		0.37	0.14	0.35	0.3	0	0	0	0	0.17
1,2,3,7,8-PeCDF (pentafulan)	pg/g		0	0	0.0054	0	0	0	0	0	0
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g		0.013	0	0.022	0	0	0	0	0	0
2,3,4,7,8-PeCDF (pentafulan)	pg/g		0	0	0.054	0	0	0	0	0	0
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g		0	0	0.65	0	0	0	0	0.85	0
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g		0	0	0.048	0	0	0	0	0	0
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g		0.6	2.7	1.83	2.28	0.063	5.7	2.13	0.288	0.81
1,2,3,4,6,7,8,9-OCDF (octafuran)	pg/g		0.00075	0.00051	0.00093	0.000078	0	0.0003	0.00012	0.0057	0.000066
	Calculated Site Background TEQ										
TEQ	4.95		1.74	3.71	4.08	3.98	0.13	6.96	2.49	2.05	1.15

NOTES:
1) All Dioxins and Furans results obtained using U.S. EPA SW-846 Method 16
2) TEQ = Toxic Equivalence
3) TEF = Toxic Equivalent Factor

TABLE 9
Soil TEQ Calculations
Proposed Strecker Forest Development
Wildwood, Missouri
MUNDELL Project No. 08044

Sample Location		2005 World Health Organization TEF	DUP-3 (B-33)	B-34	B-35	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06
(Depth)	Units		(4.0-8.0')	(2.0-4.2')	(1.0-5.0')	(1.0-2.0')	(1.0-2.0')	(4.0-5.0')	(21.0-25.0')	(12.0-14.0')	(7.0-10.0')
Reported result was multiplied by TEF. detects were assigned a value of zero.		Non-									
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g	0.01	9.8	19	15	12	110	56	13	3.4	700
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g	0.01	1.1	0	0.84	0	0	0.3	0.23	0.52	120
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g	0.01	0	0	0	0	0	0	0	0	10
1,2,3,4,7,8-HxCDD	pg/g	0.1	0	0.13	0	0	0.25	0.25	0	0	3.8
1,2,3,4,7,8-HxCDF	pg/g	0.1	0.18	0	0	0	0	0	0	0	20
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g	0.1	0	0	0.29	0	0.34	0.39	0	0	32
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g	0.1	0	0	0	0	0	0	0	0	4.7
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g	0.1	0	0.54	0.53	0	0.52	0.58	0.21	0	8.3
1,2,3,7,8,9-HxCDF	pg/g	0.1	0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g	1	0	0	0	0	0	0	0	0	1.9
1,2,3,7,8-PeCDF (pentafulan)	pg/g	0.03	0	0	0	0	0	0	0	0	1.4
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g	0.1	0	0	0	0	0	0	0	0	3.8
2,3,4,7,8-PeCDF (pentafulan)	pg/g	0.3	0	0	0	0	0	0	0	0	5.1
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g	1	0.43	0	0.25	0	0	0	0	0	6500
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g	0.1	0.11	0	0	0	0	0	0	0	48
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g	0.0003	470	3400	1800	3400	24000	18000	1700	690	11000
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g	0.0003	1.7	0.23	1.4	0.65	0.33	1.6	0.6	3	220
Resulting Calculations											
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g		0.098	0.19	0.15	0.12	1.1	0.56	0.13	0.034	7
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g		0.011	0	0.0084	0	0	0.003	0.0023	0.0052	1.2
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g		0	0	0	0	0	0	0	0	0.1
1,2,3,4,7,8-HxCDD	pg/g		0	0.013	0	0	0.025	0.025	0	0	0.38
1,2,3,4,7,8-HxCDF	pg/g		0.018	0	0	0	0	0	0	0	2
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g		0	0	0.029	0	0.034	0.039	0	0	3.2
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g		0	0	0	0	0	0	0	0	0.47
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g		0	0.054	0.053	0	0.052	0.058	0.021	0	0.83
1,2,3,7,8,9-HxCDF	pg/g		0	0	0	0	0	0	0	0	0
1,2,3,7,8-PeCDD (pentadioxin)	pg/g		0	0	0	0	0	0	0	0	1.9
1,2,3,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0	0.042
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g		0	0	0	0	0	0	0	0	0.38
2,3,4,7,8-PeCDF (pentafulan)	pg/g		0	0	0	0	0	0	0	0	1.53
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g		0.43	0	0.25	0	0	0	0	0	6500
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g		0.011	0	0	0	0	0	0	0	4.8
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g		0.141	1.02	0.54	1.02	7.2	5.4	0.51	0.207	3.3
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g		0.00051	0.000069	0.00042	0.000195	0.000099	0.00048	0.00018	0.0009	0.066
		Calculated Site Background TEQ									
TEQ		4.95	0.71	1.28	1.03	1.14	8.41	6.09	0.66	0.25	6,527.20

NOTES:
1) All Dioxins and Furans results obtained using U.S. EPA SW-846 Method 16
2) TEQ = Toxic Equivalence
3) TEF = Toxic Equivalent Factor

TABLE 9
Soil TEQ Calculations
Proposed Strecker Forest Development
Wildwood, Missouri
MUNDELL Project No. 08044

Sample Location		2005 World Health Organization TEF	DUP-4 (MW-06)	MW-07	"Background" TEQ Calculations				
(Depth)			(7.0-10.0')	(2.0-3.0')					
Chemical Constituent	Units				MW-02 (1.0-2.0')	MW-03 (4.0-5.0')	MW-07 (2.0-3.0')	SUM	
Reported result was multiplied by TEF. detects were assigned a value of zero.		Non-							
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g	0.01	720	2.6	110	56	2.6	168.6	
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g	0.01	78	0	0	0.3	0	0.3	
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g	0.01	5.9	0	0	0	0	0	
1,2,3,4,7,8-HxCDD	pg/g	0.1	1.3	0	0.25	0.25	0	0.5	
1,2,3,4,7,8-HxCDF	pg/g	0.1	12	0	0	0	0	0	
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g	0.1	23	0	0.34	0.39	0	0.73	
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g	0.1	6.4	0	0	0	0	0	
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g	0.1	7.5	0	0.52	0.58	0	1.1	
1,2,3,7,8,9-HxCDF	pg/g	0.1	0.24	0	0	0	0	0	
1,2,3,7,8-PeCDD (pentadioxin)	pg/g	1	1.1	0	0	0	0	0	
1,2,3,7,8-PeCDF (pentafulan)	pg/g	0.03	0.73	0	0	0	0	0	
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g	0.1	1.9	0	0	0	0	0	
2,3,4,7,8-PeCDF (pentafulan)	pg/g	0.3	2.4	0	0	0	0	0	
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g	1	2000	0	0	0	0	0	
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g	0.1	11	0	0	0	0	0	
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g	0.0003	9800	1100	24000	18000	1100	43100	
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g	0.0003	110	0	0.33	1.6	0	1.93	
Resulting Calculations									
1,2,3,4,6,7,8-HpCDD (heptadioxin)	pg/g		7.2	0.026	1.1	0.56	0.026	0.562	
1,2,3,4,6,7,8-HpCDF (heptafuran)	pg/g		0.78	0	0	0.003	0	0.001	
1,2,3,4,7,8,9-HpCDF (heptafuran)	pg/g		0.059	0	0	0	0	0	
1,2,3,4,7,8-HxCDD	pg/g		0.13	0	0.025	0.025	0	0.016666667	
1,2,3,4,7,8-HxCDF	pg/g		1.2	0	0	0	0	0	
1,2,3,6,7,8-HxCDD (hexadioxin)	pg/g		2.3	0	0.034	0.039	0	0.024333333	
1,2,3,6,7,8-HxCDF (hexafuran)	pg/g		0.64	0	0	0	0	0	
1,2,3,7,8,9-HxCDD (hexadioxin)	pg/g		0.75	0	0.052	0.058	0	0.036666667	
1,2,3,7,8,9-HxCDF	pg/g		0.024	0	0	0	0	0	
1,2,3,7,8-PeCDD (pentadioxin)	pg/g		1.1	0	0	0	0	0	
1,2,3,7,8-PeCDF (pentafulan)	pg/g		0.0219	0	0	0	0	0	
2,3,4,6,7,8-HxCDF (hexafuran)	pg/g		0.19	0	0	0	0	0	
2,3,4,7,8-PeCDF (pentafulan)	pg/g		0.72	0	0	0	0	0	
2,3,7,8-TCDD (Tetrachlorodibenzo-p-Dioxin)	pg/g		2000	0	0	0	0	0	
2,3,7,8-TCDF (Tetrachlorodibenzofuran)	pg/g		1.1	0	0	0	0	0	
1,2,3,4,6,7,8,9-OCDD (Octadioxin)	pg/g		2.94	0.33	7.2	5.4	0.33	4.31	
1,2,3,4,6,7,8,9-OCDF (octafulan)	pg/g		0.033	0	0.000099	0.00048	0	0.000193	
	Calculated Site Background TEQ								
TEQ		4.95	2,019.19	0.36	8.41	6.09	0.36	4.95	

NOTES:
1) All Dioxins and Furans results obtained using U.S. EPA SW-846 Method 16
2) TEQ = Toxic Equivalence
3) TEF = Toxic Equivalent Factor