TABLE J-2
HAZARDOUS AIR POLLUTANTS CALCULATIONS - FUGITIVE EMISSIONS
EXISTING LANDFILL FACILITY FUGITIVE LFG EMISSIONS

Calculation Inputs

Collection Efficiency =	80.0%	
CH4 concentration =	50.0%	
Total CH4 generation rate =	1,788,354,000	scf/yr (scfm * 525,600 min/yr)
Total CH4 generation rate =	50,640,541	m^3/yr

CAS No.	Pollutant	Molecular Weight (g/gmol)	Concentration (ppmv)	Data Source	Volumetric Generation (m^3/yr)	Mass Generation (ton/yr)	Fugitive Emissions (ton/yr)	Fugitive Emissions (lb/yr)
000056235	CARBON TETRACHLORIDE	153.84	0.004	AP-42	0.4	0.0	0.0	1.1
000067663	CHLOROFORM	119.39	0.03	AP-42	3.0	0.0	0.0	6.5
000071432	BENZENE	78.11	1.91	AP-42	193.4	0.7	0.1	272.5
000071556	ETHANE, 1,1,1-TRICHLORO	133.41	0.48	AP-42	48.6	0.3	0.1	117.0
000074873	METHYL CHLORIDE	50.49	1.21	AP-42	122.6	0.3	0.1	111.6
000075003	ETHANE, CHLORO	64.52	1.25	AP-42	126.6	0.4	0.1	147.3
000075014	VINYL CHLORIDE	62.50	1.077	WIAC	109.1	0.3	0.1	122.9
000075092	DICHLOROMETHANE	84.94	14.3	AP-42	1,448.3	5.5	1.1	2218.4
000075150	CARBON DISULFIDE	76.13	0.58	AP-42	58.7	0.2	0.0	80.6
000075343	ETHANE, 1,1-DICHLORO	98.97	2.35	AP-42	238.0	1.1	0.2	424.8
000075354	ETHENE, 1,1-DICHLORO	96.94	0.20	AP-42	20.3	0.1	0.0	35.4
000078875	PROPANE, 1,2-DICHLORO	112.99	0.18	AP-42	18.2	0.1	0.0	37.1
000078933	METHYL ETHYL KETONE	72.11	7.09	AP-42	718.1	2.3	0.5	933.8
000079016	TRICHLOROETHYLENE	131.4	2.82	AP-42	285.6	1.7	0.3	676.8
000079345	1,1,2,2-TETRACHLOROETHANE	167.85	1.11	AP-42	112.4	0.9	0.2	340.3
000100414	ETHYLBENZENE	106.16	4.61	AP-42	466.9	2.2	0.4	893.8
000106467	BENZENE, 1,4-DICHLORO	147	0.21	AP-42	21.3	0.1	0.0	56.4
000106934	ETHANE, 1,2-DIBROMO	187.88	0.001	AP-42	0.1	0.0	0.0	0.3
000107062	1,2-DICHLOROETHANE	98.96	0.41	AP-42	41.5	0.2	0.0	74.1
000107131	PROPENENITRILE	53.06	0.036	WIAC	3.6	0.0	0.0	3.5
000108101	2-PENTANONE, 4-METHYL	100.16	1.87	AP-42	189.4	0.9	0.2	342.1
000108883	TOLUENE	92.13	39.3	AP-42	3,980.3	16.5	3.3	6612.9
000108907	CHLOROBENZENE	112.56	0.25	AP-42	25.3	0.1	0.0	51.4
000110543	HEXANE	86.18	6.57	AP-42	665.4	2.6	0.5	1034.1
000127184	PERCHLOROETHYLENE	165.83	3.73	AP-42	377.8	2.8	0.6	1129.7
000463581	CARBONYL SULFIDE	60.07	0.49	AP-42	49.6	0.1	0.0	53.8
001330207	XYLENE, M, O & P MIXT.	106.16	12.1	AP-42	1,225.5	5.9	1.2	2346.1
007439976	MERCURY	200.61	0.000292	AP-42	0.0	0.0	0.0	0.1
007783064	HYDROGEN SULFIDE	34.08	133	SITE SPECIFIC	13,470.4	20.7	4.1	8278.4
007647010	HYDROGEN CHLORIDE	36.46	42	AP-42	-		0.0	0.0
						TOTAL HAPs =	*13.2*	*26402.9*
						High Individual HAP =	*4.1*	*8278.4*

Sample Calculations:
Volumetric Generation Calculation - per AP-42, Section 2.4
Mass Generation Calculation - Per AP-42, Section 2.4
Fugitive Emission (ton/yr) = Uncontrolled Mass Emissions * (1 - Collection Efficiency)

Notes:
1. Molecular weight and concentration of HAPs from AP-42, Section 2.4 (11/98), and/or WIAC Guidance.
2. Chlorine is converted to HCl during combustion; there are no fugitive emissions of HCl
3. Hydrogen sulfide (H2S) concentration per site specific sample