

Attachment B

Financial Assurance Estimates

Calculation of Landfill Reserve Fund w/ CHL SDP #2 with 2% yield
2012 = 8.26 with 3% yield
Used in Rate Study for 2012 with 1.5%

8.82
8.26
9.11

Year	Status	CH Disposal Tonnage	Real Interest Rate	Closure 7254				CH Post-Closure Maintenance: 7255				Year
				Per Ton Rate: 2012 = \$3.887			Year-end Balance	Per Ton Rate: 2012 = \$0.00			Year-end Balance	
				Revenue / Transfers	Real Interest Earned	Expenditures		Revenue / Transfers	Real Interest Earned	Set-Aside		
							(\$6,421,361)					\$9,824,830
1994	history	814,384	3.0%	4,422,550	(103,676)	513,220	(2,615,707)	1,058,717	449,184			11,332,732
1995	history	822,520	3.0%	4,232,078	60,636	544,191	1,132,816	484,771	668,324			12,485,826
1996	history	809,836	3.0%	3,341,693	238,061	234,264	4,478,306	727,166	741,819			13,954,811
1997	history	864,397	3.0%	3,014,712	82,895	6,163,038	1,412,875	738,474	915,808			15,609,094
1998	history	875,496	3.0%	2,780,226	(149,601)	6,446,861	(2,403,361)	733,524	1,084,800	0		17,427,418
1999	history	925,357	3.0%	5,692,434	(108,825)	4,917,919	(1,737,670)	548,289	1,205,846	0		19,181,553
2000	history	947,174	3.0%	5,696,710	(108,825)	7,620,145	(3,769,930)	719,851	1,766,389	0		21,667,793
2001	history	936,506	3.0%	5,637,760	(91,988)	3,312,977	(1,537,135)	739,839	1,245,568	0		23,653,200
2002	history	939,488	3.0%	5,640,893	51,404	2,486,402	1,668,761	699,420	893,380	0		25,246,000
2003	history	978,836	3.0%	3,181,167	138,833	2,320,514	2,668,246	636,244	676,286	0		26,558,530
2004	history	1,006,163	3.0%	6,130,019	107,554	4,199,095	4,706,723	523,205	664,548	0		27,746,284
2005	history	988,855	3.0%	6,724,207	269,503	1,726,896	9,757,413	207,659	794,030	0		28,747,973
2006	history	998,207	3.0%	4,791,394	423,519	5,656,525	9,315,800	0	1,367,521	0		30,115,493
2007	history	1,010,429	3.0%	4,489,147	549,365	3,168,565	11,185,747	0	1,554,363	0		31,669,856
2008	history	930,617	3.0%	4,234,307	291,016	4,913,371	10,797,700	0	856,085	(762,193)		31,763,748
2009	history	867,481	3.0%	3,270,407	271,372	3,516,106	10,823,372	0	816,886	0		32,580,635
2010	history	830,912	3.0%	2,592,436	146,490	1,831,806	11,730,492	0	412,011	0		32,992,646
2011	budgeted	824,000	3.0%	2,348,400	304,881	5,483,953	8,899,821	0	989,779	0		33,982,425
2012	forecast	826,000	3.0%	3,210,718	301,218	929,174	11,482,582	0	1,019,473	0		35,001,898
2013	forecast	834,500	3.0%	3,243,758	354,172	2,597,487	12,483,025	0	1,050,057	0		36,051,955
2014	forecast	839,000	3.0%	3,261,250	384,377	2,602,194	13,526,457	0	1,081,559	0		37,133,513
2015	forecast	839,000	3.0%	3,261,250	411,227	2,899,025	14,299,909	0	1,114,005	0		38,247,519
2016	forecast	855,500	3.0%	3,325,386	442,372	2,433,767	15,633,900	0	1,147,426	0		39,394,944
2017	forecast	871,500	3.0%	3,387,579	515,331	300,000	19,236,810	0	1,181,848	0		40,576,793
2018	forecast	886,500	3.0%	3,445,885	561,368	4,495,000	18,749,063	0	1,217,304	0		41,794,097
2019	forecast	900,000	3.0%	3,498,361	598,439	1,100,544	21,745,319	0	1,253,823	0		43,047,919
2020	forecast	913,500	3.0%	3,550,836	634,051	4,771,433	21,158,773	0	1,291,438	0		44,339,357
2021	forecast	927,500	3.0%	3,605,255	617,271	4,771,433	20,609,866	0	1,330,181	0		45,669,538
2022	forecast	941,500	3.0%	3,659,674	601,620	4,771,433	20,099,726	0	1,370,086	0		47,039,624
2023	forecast	957,000	3.0%	3,719,924	590,535	4,550,398	19,859,787	0	1,411,189	0		48,450,813
2024	forecast	971,500	3.0%	3,776,286	473,902	11,902,384	12,207,591	0	1,453,524	0		49,904,337
2025	forecast	986,200	3.0%	3,833,426	286,018	9,180,750	7,146,285	0	1,497,130	0		51,401,467
2026	closed	0	3.0%	0	76,677	9,180,750	(1,957,787)	0	1,542,044	0		52,943,511
2027	closed	0	3.0%	0	(214,405)	10,378,112	(12,550,305)	0	1,588,305	0		54,531,816
2028	closed	0	3.0%	20,055,886	(185,472)	7,320,109	0	0	1,102,281	35,578,212		20,055,886

sum tons 11-25: 13,373,200

SUM (2011 - 2028)

71,183,876 6,753,578 89,667,946

22,641,452 35,578,212

annual PCM cost, in 2008 dollars: 1,815,174
 PV of 30 yrs of PCM cost @ 3%: 35,578,212

variations:

7.54 without 200K FI @6% disc

PCM cost:	PV @6%	LRF Rate (\$/ton)
1,915,174	26,362,047	7.34
1,815,174	24,985,564	7.27
1,715,174	23,609,081	7.20
1,615,174	22,232,597	7.13
1,515,174	20,856,114	7.05

Discount Rate	Fund Needed
0.03	35,578,212
0.04	31,388,049
0.05	27,903,673
0.06	24,985,564
0.07	22,524,569

2011 Post Closure Cost Estimate

Task	2010 dollars
Environmental Monitoring	\$ 900,000
Access & On Site Road Maintenance	\$ 11,000
Fence Repair & Vegetation Control	\$ 68,000
Weather Station Maintenance	\$ 6,000
<i>Health Department Permit Fee</i>	\$ 3,000
Litter or Illegal Dumping Pickup	\$ 1,000
Grading -ESS increased acreage to 414 acres to include Area 6	\$ 62,000
Drainage Improvements	\$ 36,000
Liner Repair	\$ 2,000
Well Boot Repair	\$ 8,000
Erosion Control	\$ -
Vegetation Control	\$ 38,000
Routine Maintenance	\$ 36,000
Leachate Well Replacement	\$ 51,000
Annual Pump Repair	\$ 14,000
Major Pump Replacement	\$ 8,000
Periodic Line Cleaning	\$ -
Electrical System Repair	\$ -
Alarm System Repair	\$ -
Annual Aerator Repair	\$ 6,000
Aerator Replacement	\$ 2,000
Air Compressor Overhaul	\$ 1,000
Leachate Hauling	\$ -
Sludge Management	\$ -
O & M New Unit Processes	\$ -
Metro Charges	\$ 191,000
Routine Maintenance- blowers	\$ 20,000
Major Blower and Motor Replacement or Upgrade	\$ 15,000
Flare Rehabilitation	\$ 11,000
Actuator Valve Replacement	\$ 1,000
Well Replacement	\$ 24,000
Stack Emissions Testing	\$ 34,000
Flare Control System Maintenance	\$ 6,000
PSAPCA Permit Fee	\$ -
Stormwater Conveyance System Maintenance	\$ 71,000
Catch Basin and Grate Cleaning	\$ 14,000
Retention Basin Cleaning	\$ 34,000
BGP - NPDES	\$ -
Surface Water Utility Fee	\$ -
PSE (1999)	\$ 141,000
	\$ 1,815,000

