

TABLE G-2.1: COMPARATIVE LANDFILL DEVELOPMENT AND EXPANSION CAPITAL COST- 500 TPD- PREFERRED EXPANSION

Item	Unit	Quantity	Unit Cost	Cost	Capacity Served	Years Served	Tons Served	
								\$/Ton
A	<i>Land Acquisition (from current funds)</i>	ACRES	160.00	\$ 1,500	\$ 240,000	Total Expansion	7,700,000	N/A
B	<i>Design and Permitting</i>							
1	Site Investigation and monitoring	LS	1	\$ -	\$ -	N/A - This is in operating costs		
2	Preliminary Design	LS	1	\$ 60,000	\$ 60,000	Full Expansion	7,700,000	\$ 0.01
3	Environmental Impact Report	LS	1	\$ 150,000	\$ 150,000	Total Expansion	7,700,000	\$ 0.02
4	Permitting	LS	1	\$ 50,000	\$ 50,000	Assume 3 Years	452,500	\$ 0.11
5	PS&E, CQA PLAN (80% from permit)	LS	1	\$ 40,000	\$ 40,000	First Expansion Module [7 acres]	2.36 355,740	\$ 0.11
C	<i>Construction</i>							
6	Site Grading/Drainage (0 Qty.- Co. Ops)	acres	-	\$ 3,000	\$ -	N/A - This is in operating costs		
7	On-site Roads (\$0 means Ops Budget)	LF	-	\$ 40	\$ -	N/A - This is in operating costs		
8	Off-site Road	LF	-	\$ 60	\$ -	Assume none required		
9	Scale facility	LS	1	\$ 240,000	\$ 240,000	Facility Life of 20-years assumed	20 3,016,667	\$ 0.08
10	Admin/Maintenance Building	SF	4,200	\$ 90	\$ 378,000	Facility Life of 20-years assumed	20 3,016,667	\$ 0.13
11	LFG Control (Expansion Phase B)	LS	1	\$ 100,000	\$ 100,000	First Expansion Module [7 acres]	2.36 355,740	\$ 0.28
12	LFG Flare (future exp. Phase B)	LS	1	\$ 200,000	\$ 200,000	Assume 20-year service life	20.00 3,016,667	\$ 0.07
13	Cell Construction	acres	7.00	\$ 135,664	\$ 949,648	First Expansion Module [7 acres]	2.36 355,740	\$ 2.67
14	Cell QA/QC	percent	\$ 949,648	7.5%	\$ 71,224	First Expansion Module [7 acres]	2.36 355,740	\$ 0.20
D	TOTAL			\$ 2,500,000			TOTAL>	\$ 3.67

NOTES TO TABLE G-2.1

1 Assumes expansion is only within current permitted parcel and therefore existing monitoring system is adequate to permit the expansion.

4 Assumed cost for JTD for CIWMB, RWQCB; and LAPCD permitting.

5 PS&E assumed for first expansion module (does not include partial closure or other closure)

6 Assume included in ongoing operations costs.

7 Assume included in ongoing operations costs.

9 Assumes the following for TS and ultimately for Landfill

In bound scales LS	1	\$	70,000	\$	70,000
Outbound scales LS	1	\$	70,000	\$	70,000
Scale house LS	1	\$	100,000	\$	100,000
				\$	240,000

10 Assume maintenance building and office is future addition. This is for assumed building dimensions:

Length (scraper bay work)	60
Width (three bays plus office area)	70
Assumed SF	4200
Typical Admin/Maintenance Bldg (near landfill)	\$ 90.00 /SF

11 LFG Control System (GCCS) \$ 10,000 Design for 1/4 of System (assumes system design serves 20 yrs)
 \$ 12,000 Cost per Acre for control system (P Stout)
 7.00 Acre unit
 84,000 Cost for GCCS
 \$ 6,300 CQA 7.5%
 100,000 Rounded Total Project (without O&M)

12 It is assumed that a flare would ultimately be required for the GCCS for the expansion, with the assumed service life shown.
 It is assumed this would be a number of years after initial modules, which would allow use of tip fees to in a fund for this cost rather than requiring financing.

13 Assumed excavation, subgrade compaction, GCL, HDPE and LCRS system for

	Units	Quantity	Unit Cost		
Excavation (part of operations)	CY	-	\$ 1.50	\$	-
1-Foot Prepared Subgrade Layer	CY	11,293	\$ 6.00	\$	67,760
Fine Grading and Compaction	SF	304,920.00	\$ 0.10	\$	30,492
GCL	SF	304,920	\$ 0.65	\$	198,198
60 mil HDPE	SF	304,920	\$ 0.65	\$	198,198
LCRS and Drain layer	Acre	7.00	\$ 50,000	\$	350,000
Operation layer (Using on-site free soils)	Acre	7.00	\$ 15,000.00	\$	105,000
			TOTAL	\$	949,648
Construction cost per acre					135,664

7.00 acre unit Base Yr unit (X years)