

CHITTENDEN SOLID WASTE DISTRICT
 REGIONAL LANDFILL
 SITE 21, WILLISTON
 LANDFILL SUMMARY
 January, 2005

LANDFILL INFORMATION	
Landfill Model	2
Initial Waste Acceptance Rate (tons per year)	66,350
Landfill Waste Capacity Volume (yards)	9,521,706
Landfill Capacity (tons)	7,141,280
Landfill Footprint Area (acres)	52.86
Initial Development Area (acres)	10
Landfill Life (Years)	45

LANDFILL TIMELINE INFORMATION	
Year Construction Begins	2008
Year Waste Placement Begins	2009
Year Baseline is Complete	2031
Year Begin Contribution to Closure Fund	2027
Year Begin Contribution to Post Closure Fund	2027
Year of Final Closure	2054
Last Year of Post Closure Care	2083

CALCULATED LANDFILL FINANCIAL VALUES	
Initial Bond Amount	\$17,991,070
Total Landfill Cost (real dollars)	\$535,396,823
Bond Term (years)	30
Bond Final Value	\$20,249,108
Post Closure Fund Final Value	\$56,723,938
Maximum Tip Fee (\$ per ton)	\$90.24
Minimum Tip Fee (\$ per ton)	\$68.81
Averaged Tip Fee (\$ per ton)	\$75.07

LANDFILL CALCULATED FINANCIAL VALUES (2004 DOLLARS)	
Total Development Cost	\$44,391,011
Base Liner Total Cost	\$32,559,855
Base Liner Cost per Acre	\$615,991
Final Closure Total Cost	\$11,777,189
Post Closure Fund	\$15,000,000
General Operations	\$800,613
Net Present Value	\$144,226,871
Leachate Treatment Cost (Only Model B)	\$240,000

LANDFILL VS. TRANSFER STATION COMPARISON	
Total Cost Difference (real dollars)	\$726,768,879
Net Present Value Difference	\$133,223,377
Average Tip Fee Difference (\$ per ton)	\$101.91

TRANSFER STATION CALCULATED FINANCIAL VALUES	
Total Cost (real dollars)	\$1,262,165,703
Net Present Value	\$277,450,248
Maximum Tip Fee (\$ per ton)	\$241.45
Minimum Tip Fee (\$ per ton)	\$101.02
Averaged Tip Fee (\$ per ton)	\$176.98

CHITTENDEN SOLID WASTE DISTRICT
REGIONAL LANDFILL
SITE 21, WILLISTON
LANDFILL ANNUAL COSTS DETAIL
January, 2005

Landfill Model 2

Year	Totals	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Waste														
Acceptance Rate (tons)		76,918	79,225	81,602	84,050	86,572	89,169	91,844	94,599	97,437	100,360	103,371	106,472	109,666
Cumulative Waste Accepted (tons)		76,918	156,143	237,745	321,796	408,367	497,536	589,380	683,979	781,416	881,777	985,148	1,091,620	1,201,287
Capacity Remaining (tons)		7,064,362	6,985,136	6,903,534	6,819,484	6,732,912	6,643,743	6,551,900	6,457,300	6,359,863	6,259,503	6,156,132	6,049,659	5,939,993
LANDFILL														
Developmental Costs														
Closure Reserve Fund	\$15,013,456	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Development Costs	\$26,962,666	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290
Bond Payment Fund Contribution	\$42,958,222	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941
Operational Costs														
General Operations	\$123,866,544	\$953,505	\$990,827	\$1,029,801	\$1,070,507	\$1,113,032	\$1,157,466	\$1,203,906	\$1,252,453	\$1,303,213	\$1,356,299	\$1,411,829	\$1,469,930	\$1,530,732
Stockpile Maintenance	\$1,934,779	\$20,867	\$21,493	\$22,138	\$22,802	\$23,486	\$24,190	\$24,916	\$25,664	\$26,434	\$27,227	\$28,043	\$28,885	\$29,751
Leachate Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
State Franchise Tax (\$6/ton)	\$42,790,866	\$461,507	\$475,352	\$489,613	\$504,301	\$519,430	\$535,013	\$551,064	\$567,595	\$584,623	\$602,162	\$620,227	\$638,834	\$657,999
Host Town Compensation														
Impact Fee (\$3.50/ton)	\$24,961,338	\$269,212	\$277,289	\$285,607	\$294,176	\$303,001	\$312,091	\$321,454	\$331,097	\$341,030	\$351,261	\$361,799	\$372,653	\$383,833
PILT(\$16,720 X Tax Rate)	\$3,037,259	\$32,757	\$33,740	\$34,752	\$35,795	\$36,869	\$37,975	\$39,114	\$40,287	\$41,496	\$42,741	\$44,023	\$45,344	\$46,704
Environmental Monitoring	\$10,748,773	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797	\$160,471	\$165,285
Educat. Fund (\$0.25/ton)	\$1,782,953	\$19,229	\$19,806	\$20,401	\$21,013	\$21,643	\$22,292	\$22,961	\$23,650	\$24,359	\$25,090	\$25,843	\$26,618	\$27,417
District Administration	\$10,748,773	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797	\$160,471	\$165,285
Enforcement Program	\$2,687,193	\$28,982	\$29,851	\$30,747	\$31,669	\$32,619	\$33,598	\$34,606	\$35,644	\$36,713	\$37,815	\$38,949	\$40,118	\$41,321
Insurance Trust (\$1/ton)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Post Closure Fund Contribution	\$29,791,247	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Reserve Fund	\$2,687,193	\$28,982	\$29,851	\$30,747	\$31,669	\$32,619	\$33,598	\$34,606	\$35,644	\$36,713	\$37,815	\$38,949	\$40,118	\$41,321
Contingency	\$69,834,368	\$900,847	\$917,462	\$934,654	\$952,446	\$970,862	\$989,925	\$1,009,661	\$1,030,096	\$1,051,258	\$1,073,175	\$1,095,878	\$1,119,397	\$1,143,766
Total Annual Costs	\$535,396,823	\$6,906,497	\$7,033,872	\$7,165,678	\$7,302,086	\$7,443,274	\$7,589,426	\$7,740,736	\$7,897,406	\$8,059,647	\$8,227,679	\$8,401,731	\$8,582,044	\$8,768,869
Equivalent Tip Fee (\$/ton)		\$89.79	\$88.78	\$87.81	\$86.88	\$85.98	\$85.11	\$84.28	\$83.48	\$82.72	\$81.98	\$81.28	\$80.60	\$79.96
Net Present Value	\$144,226,871	\$5,411,421	\$5,248,783	\$5,092,514	\$4,942,339	\$4,798,001	\$4,659,249	\$4,525,848	\$4,397,571	\$4,274,203	\$4,155,537	\$4,041,376	\$3,931,533	\$3,825,829
TRANSFER STATION														
Annual Costs	\$1,262,165,703	\$7,770,501	\$8,163,688	\$8,576,771	\$9,010,755	\$9,466,699	\$9,945,714	\$10,448,968	\$10,977,685	\$11,533,156	\$12,116,734	\$12,729,841	\$13,373,971	\$14,050,694
Equivalent Tip Fee (\$/ton)		\$101.02	\$103.04	\$105.10	\$107.21	\$109.35	\$111.54	\$113.77	\$116.04	\$118.37	\$120.73	\$123.15	\$125.61	\$128.12
Net Present Value	\$277,450,248	\$6,088,391	\$6,091,870	\$6,095,351	\$6,098,834	\$6,102,319	\$6,105,806	\$6,109,295	\$6,112,786	\$6,116,279	\$6,119,774	\$6,123,271	\$6,126,770	\$6,130,271
DIFFERENCE LF VS TS														
Annual Costs Difference	\$726,768,879	\$864,003	\$1,129,816	\$1,411,093	\$1,708,669	\$2,023,426	\$2,356,288	\$2,708,231	\$3,080,279	\$3,473,509	\$3,889,055	\$4,328,110	\$4,791,927	\$5,281,824
Tip Fee Difference		\$11.23	\$14.26	\$17.29	\$20.33	\$23.37	\$26.43	\$29.49	\$32.56	\$35.65	\$38.75	\$41.87	\$45.01	\$48.16
Net Present Value	\$133,223,377	\$676,969	\$843,086	\$1,002,837	\$1,156,494	\$1,304,318	\$1,446,557	\$1,583,447	\$1,715,215	\$1,842,076	\$1,964,237	\$2,081,895	\$2,195,237	\$2,304,442

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
112,956	116,345	119,835	123,431	127,133	130,947	134,876	138,922	143,090	147,383	151,804	156,358	161,049	165,880	170,857	175,982	181,262	186,700
1,314,243	1,430,588	1,550,424	1,673,854	1,800,988	1,931,935	2,066,811	2,205,733	2,348,823	2,496,206	2,648,010	2,804,368	2,965,417	3,131,297	3,302,154	3,478,136	3,659,398	3,846,098
5,827,036	5,710,691	5,590,856	5,467,425	5,340,292	5,209,344	5,074,469	4,935,546	4,792,457	4,645,074	4,493,270	4,336,912	4,175,863	4,009,983	3,839,126	3,663,143	3,481,882	3,295,182
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759
\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$1,172,290	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$1,431,941	\$0
\$1,594,375	\$1,661,007	\$1,730,783	\$1,803,867	\$1,880,432	\$1,960,662	\$2,044,748	\$2,132,896	\$2,225,321	\$2,322,250	\$2,423,925	\$2,530,599	\$2,642,541	\$2,760,035	\$2,883,382	\$3,012,898	\$3,148,920	\$3,291,801
\$30,644	\$31,563	\$32,510	\$33,485	\$34,490	\$35,525	\$36,590	\$37,688	\$38,819	\$39,983	\$41,183	\$42,418	\$43,691	\$45,001	\$46,351	\$47,742	\$49,174	\$50,650
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$677,739	\$698,071	\$719,013	\$740,583	\$762,801	\$785,685	\$809,255	\$833,533	\$858,539	\$884,295	\$910,824	\$938,149	\$966,293	\$995,282	\$1,025,140	\$1,055,895	\$1,087,571	\$1,120,199
\$395,348	\$407,208	\$419,424	\$432,007	\$444,967	\$458,316	\$472,066	\$486,228	\$500,814	\$515,839	\$531,314	\$547,253	\$563,671	\$580,581	\$597,999	\$615,939	\$634,417	\$653,449
\$48,105	\$49,548	\$51,035	\$52,566	\$54,143	\$55,767	\$57,440	\$59,163	\$60,938	\$62,767	\$64,650	\$66,589	\$68,587	\$70,644	\$72,764	\$74,947	\$77,195	\$79,511
\$170,243	\$175,351	\$180,611	\$186,029	\$191,610	\$197,359	\$203,279	\$209,378	\$215,659	\$222,129	\$228,793	\$235,657	\$242,726	\$250,008	\$257,508	\$265,234	\$273,191	\$281,386
\$28,239	\$29,086	\$29,959	\$30,858	\$31,783	\$32,737	\$33,719	\$34,731	\$35,772	\$36,846	\$37,951	\$39,090	\$40,262	\$41,470	\$42,714	\$43,996	\$45,315	\$46,675
\$170,243	\$175,351	\$180,611	\$186,029	\$191,610	\$197,359	\$203,279	\$209,378	\$215,659	\$222,129	\$228,793	\$235,657	\$242,726	\$250,008	\$257,508	\$265,234	\$273,191	\$281,386
\$42,561	\$43,838	\$45,153	\$46,507	\$47,903	\$49,340	\$50,820	\$52,344	\$53,915	\$55,532	\$57,198	\$58,914	\$60,682	\$62,502	\$64,377	\$66,308	\$68,298	\$70,347
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272
\$42,561	\$43,838	\$45,153	\$46,507	\$47,903	\$49,340	\$50,820	\$52,344	\$53,915	\$55,532	\$57,198	\$58,914	\$60,682	\$62,502	\$64,377	\$66,308	\$68,298	\$70,347
\$1,169,018	\$1,195,189	\$1,222,318	\$1,250,442	\$1,279,604	\$1,309,846	\$1,341,212	\$1,373,750	\$1,407,509	\$1,734,745	\$1,595,260	\$1,633,002	\$1,672,185	\$1,712,874	\$1,755,132	\$1,799,028	\$1,844,634	\$1,677,234
\$8,962,469	\$9,163,118	\$9,371,103	\$9,586,725	\$9,810,297	\$10,042,149	\$10,282,624	\$10,532,083	\$10,790,903	\$13,299,715	\$12,230,328	\$12,519,679	\$12,820,088	\$13,132,032	\$13,456,012	\$13,792,550	\$14,142,197	\$12,858,798
\$79.34	\$78.76	\$78.20	\$77.67	\$77.17	\$76.69	\$76.24	\$75.81	\$75.41	\$90.24	\$80.57	\$80.07	\$79.60	\$79.17	\$78.76	\$78.37	\$78.02	\$68.87
\$3,724,091	\$3,626,157	\$3,531,870	\$3,441,082	\$3,353,649	\$3,269,436	\$3,188,312	\$3,110,153	\$3,034,842	\$3,562,306	\$3,119,879	\$3,041,610	\$2,966,279	\$2,893,768	\$2,823,962	\$2,756,752	\$2,692,035	\$2,331,175
\$14,761,659	\$15,508,599	\$16,293,334	\$17,117,776	\$17,983,936	\$18,893,923	\$19,849,955	\$20,854,363	\$21,909,594	\$23,018,219	\$24,182,941	\$25,406,598	\$26,692,172	\$28,042,796	\$29,461,761	\$30,952,527	\$32,518,724	\$34,164,172
\$130.68	\$133.30	\$135.96	\$138.68	\$141.46	\$144.29	\$147.17	\$150.12	\$153.12	\$156.18	\$159.30	\$162.49	\$165.74	\$169.05	\$172.44	\$175.88	\$179.40	\$182.99
\$6,133,774	\$6,137,279	\$6,140,786	\$6,144,295	\$6,147,806	\$6,151,319	\$6,154,834	\$6,158,351	\$6,161,870	\$6,165,391	\$6,168,914	\$6,172,440	\$6,175,967	\$6,179,496	\$6,183,027	\$6,186,560	\$6,190,095	\$6,193,632
\$5,799,190	\$6,345,481	\$6,922,230	\$7,531,051	\$8,173,639	\$8,851,774	\$9,567,331	\$10,322,280	\$11,118,691	\$9,718,505	\$11,952,613	\$12,886,920	\$13,872,084	\$14,910,764	\$16,005,750	\$17,159,977	\$18,376,527	\$21,305,374
\$51.34	\$54.54	\$57.76	\$61.01	\$64.29	\$67.60	\$70.93	\$74.30	\$77.70	\$65.94	\$78.74	\$82.42	\$86.14	\$89.89	\$93.68	\$97.51	\$101.38	\$114.12
\$2,409,683	\$2,511,122	\$2,608,916	\$2,703,213	\$2,794,157	\$2,881,884	\$2,966,522	\$3,048,198	\$3,127,029	\$2,603,085	\$3,049,036	\$3,130,830	\$3,209,687	\$3,285,728	\$3,359,065	\$3,429,808	\$3,498,060	\$3,862,457

2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
192,301	198,070	204,012	210,132	216,436	222,929	229,617	236,506	243,601	250,909	258,436	266,189	274,175	282,400
4,038,399	4,236,468	4,440,480	4,650,612	4,867,049	5,089,978	5,319,595	5,556,101	5,799,702	6,050,611	6,309,047	6,575,236	6,849,411	7,131,811
3,102,881	2,904,811	2,700,799	2,490,667	2,274,231	2,051,302	1,821,684	1,585,179	1,341,578	1,090,669	832,233	566,044	291,869	9,469
\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759	\$652,759
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$3,441,917	\$3,599,664	\$3,765,463	\$3,939,755	\$4,123,012	\$4,315,728	\$4,518,430	\$4,731,673	\$4,956,044	\$5,192,165	\$5,440,696	\$5,702,331	\$5,977,810	\$6,267,911
\$52,169	\$53,734	\$55,346	\$57,006	\$58,717	\$60,478	\$62,293	\$64,161	\$66,086	\$68,069	\$70,111	\$72,214	\$74,381	\$76,612
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,153,805	\$1,188,419	\$1,224,071	\$1,260,793	\$1,298,617	\$1,337,576	\$1,377,703	\$1,419,034	\$1,461,605	\$1,505,453	\$1,550,617	\$1,597,135	\$1,645,049	\$1,694,401
\$673,053	\$693,244	\$714,042	\$735,463	\$757,527	\$780,253	\$803,660	\$827,770	\$852,603	\$878,181	\$904,527	\$931,662	\$959,612	\$988,401
\$81,896	\$84,353	\$86,884	\$89,490	\$92,175	\$94,940	\$97,788	\$100,722	\$103,743	\$106,856	\$110,061	\$113,363	\$116,764	\$120,267
\$289,828	\$298,523	\$307,478	\$316,703	\$326,204	\$335,990	\$346,070	\$356,452	\$367,145	\$378,160	\$389,504	\$401,190	\$413,225	\$425,622
\$48,075	\$49,517	\$51,003	\$52,533	\$54,109	\$55,732	\$57,404	\$59,126	\$60,900	\$62,727	\$64,609	\$66,547	\$68,544	\$70,600
\$289,828	\$298,523	\$307,478	\$316,703	\$326,204	\$335,990	\$346,070	\$356,452	\$367,145	\$378,160	\$389,504	\$401,190	\$413,225	\$425,622
\$72,457	\$74,631	\$76,870	\$79,176	\$81,551	\$83,997	\$86,517	\$89,113	\$91,786	\$94,540	\$97,376	\$100,297	\$103,306	\$106,405
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272	\$1,295,272
\$72,457	\$74,631	\$76,870	\$79,176	\$81,551	\$83,997	\$86,517	\$89,113	\$91,786	\$94,540	\$97,376	\$100,297	\$103,306	\$106,405
\$1,726,490	\$1,777,692	\$1,830,928	\$1,886,289	\$1,943,871	\$2,003,775	\$2,066,106	\$2,130,977	\$2,198,503	\$2,268,808	\$2,342,021	\$2,418,278	\$2,497,721	\$2,580,502
\$13,236,421	\$13,628,970	\$14,037,111	\$14,461,546	\$14,903,009	\$15,362,272	\$15,840,147	\$16,337,488	\$16,855,189	\$17,394,194	\$17,955,493	\$18,540,128	\$19,149,195	\$19,783,845
\$68.83	\$68.81	\$68.81	\$68.82	\$68.86	\$68.91	\$68.99	\$69.08	\$69.19	\$69.32	\$69.48	\$69.65	\$69.84	\$70.06
\$2,285,366	\$2,241,088	\$2,198,287	\$2,156,910	\$2,116,908	\$2,078,233	\$2,040,839	\$2,004,682	\$1,969,720	\$1,935,913	\$1,903,223	\$1,871,611	\$1,841,044	\$1,811,486
\$35,892,879	\$37,709,059	\$39,617,137	\$41,621,764	\$43,727,825	\$45,940,453	\$48,265,040	\$50,707,251	\$53,273,038	\$55,968,654	\$58,800,668	\$61,775,982	\$64,901,846	\$68,185,880
\$186.65	\$190.38	\$194.19	\$198.07	\$202.04	\$206.08	\$210.20	\$214.40	\$218.69	\$223.06	\$227.52	\$232.08	\$236.72	\$241.45
\$6,197,172	\$6,200,713	\$6,204,256	\$6,207,801	\$6,211,349	\$6,214,898	\$6,218,450	\$6,222,003	\$6,225,558	\$6,229,116	\$6,232,675	\$6,236,237	\$6,239,800	\$6,243,366
\$22,656,458	\$24,080,089	\$25,580,025	\$27,160,218	\$28,824,817	\$30,578,181	\$32,424,893	\$34,369,763	\$36,417,849	\$38,574,460	\$40,845,174	\$43,235,853	\$45,752,652	\$48,402,035
\$117.82	\$121.57	\$125.38	\$129.25	\$133.18	\$137.17	\$141.21	\$145.32	\$149.50	\$153.74	\$158.05	\$162.43	\$166.87	\$171.40
\$3,911,805	\$3,959,625	\$4,005,969	\$4,050,891	\$4,094,441	\$4,136,665	\$4,177,611	\$4,217,321	\$4,255,838	\$4,293,203	\$4,329,453	\$4,364,625	\$4,398,756	\$4,431,880

CHITTENDEN SOLID WASTE DISTRICT
 REGIONAL LANDFILL
 SITE 21, WILLISTON
 LANDFILL SUMMARY
 January, 2005

LANDFILL INFORMATION	
Landfill Model	2
Initial Waste Acceptance Rate (tons per year)	132,700
Landfill Waste Capacity Volume (yards)	9,521,706
Landfill Capacity (tons)	7,141,280
Landfill Footprint Area (acres)	52.86
Initial Development Area (acres)	10
Landfill Life (Years)	29

LANDFILL TIMELINE INFORMATION	
Year Construction Begins	2008
Year Waste Placement Begins	2009
Year Baseline is Complete	2023
Year Begin Contribution to Closure Fund	2019
Year Begin Contribution to Post Closure Fund	2019
Year of Final Closure	2038
Last Year of Post Closure Care	2067

CALCULATED LANDFILL FINANCIAL VALUES	
Initial Bond Amount	\$17,991,070
Total Landfill Cost (real dollars)	\$450,825,950
Bond Term (years)	29
Bond Final Value	\$20,249,108
Post Closure Fund Final Value	\$35,348,483
Maximum Tip Fee (\$ per ton)	\$76.17
Minimum Tip Fee (\$ per ton)	\$62.13
Averaged Tip Fee (\$ per ton)	\$64.81

LANDFILL CALCULATED FINANCIAL VALUES (2004 DOLLARS)	
Total Development Cost	\$44,391,011
Base Liner Total Cost	\$32,559,855
Base Liner Cost per Acre	\$615,991
Final Closure Total Cost	\$11,777,189
Post Closure Fund	\$15,000,000
General Operations	\$800,613
Net Present Value	\$176,245,210
Leachate Treatment Cost (Only Model B)	\$240,000

LANDFILL VS. TRANSFER STATION COMPARISON	
Total Cost Difference (real dollars)	\$527,364,710
Net Present Value Difference	\$179,721,042
Average Tip Fee Difference (\$ per ton)	\$75.81

TRANSFER STATION CALCULATED FINANCIAL VALUES	
Total Cost (real dollars)	\$978,190,660
Net Present Value	\$355,966,252
Maximum Tip Fee (\$ per ton)	\$175.88
Minimum Tip Fee (\$ per ton)	\$101.02
Averaged Tip Fee (\$ per ton)	\$140.62

CHITTENDEN SOLID WASTE DISTRICT
 REGIONAL LANDFILL
 SITE 21, WILLISTON
 LANDFILL ANNUAL COSTS DETAIL
 January, 2005

Landfill Model 2

Year	Totals	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Waste														
Acceptance Rate (tons)		153,836	158,451	163,204	168,100	173,143	178,338	183,688	189,198	194,874	200,721	206,742	212,945	219,333
Cumulative Waste Accepted (tons)		153,836	312,286	475,491	643,591	816,734	995,072	1,178,760	1,367,958	1,562,833	1,763,554	1,970,296	2,183,240	2,402,573
Capacity Remaining (tons)		6,987,444	6,828,993	6,665,789	6,497,688	6,324,545	6,146,207	5,962,520	5,773,321	5,578,447	5,377,726	5,170,984	4,958,039	4,738,706
LANDFILL														
Developmental Costs														
Closure Reserve Fund	\$19,159,359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Development Costs	\$27,977,090	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139	\$1,865,139
Bond Payment Fund Contribution	\$42,082,453	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119
Operational Costs														
General Operations	\$72,547,677	\$1,235,635	\$1,290,139	\$1,347,341	\$1,407,385	\$1,470,426	\$1,536,626	\$1,606,157	\$1,679,200	\$1,755,949	\$1,836,607	\$1,921,388	\$2,010,520	\$2,104,245
Stockpile Maintenance	\$943,579	\$20,867	\$21,493	\$22,138	\$22,802	\$23,486	\$24,190	\$24,916	\$25,664	\$26,434	\$27,227	\$28,043	\$28,885	\$29,751
Leachate Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
State Franchise Tax (\$6/ton)	\$41,737,633	\$923,014	\$950,704	\$979,226	\$1,008,602	\$1,038,860	\$1,070,026	\$1,102,127	\$1,135,191	\$1,169,247	\$1,204,324	\$1,240,454	\$1,277,667	\$1,315,997
Host Town Compensation														
Impact Fee (\$3.50/ton)	\$24,346,952	\$538,425	\$554,578	\$571,215	\$588,351	\$606,002	\$624,182	\$642,907	\$662,195	\$682,060	\$702,522	\$723,598	\$745,306	\$767,665
PILT(\$16,720 X Tax Rate)	\$1,481,251	\$32,757	\$33,740	\$34,752	\$35,795	\$36,869	\$37,975	\$39,114	\$40,287	\$41,496	\$42,741	\$44,023	\$45,344	\$46,704
Environmental Monitoring	\$5,242,104	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797	\$160,471	\$165,285
Educat. Fund (\$0.25/ton)	\$1,739,068	\$38,459	\$39,613	\$40,801	\$42,025	\$43,286	\$44,584	\$45,922	\$47,300	\$48,719	\$50,180	\$51,686	\$53,236	\$54,833
District Administration														
Enforcement Program	\$1,310,526	\$28,982	\$29,851	\$30,747	\$31,669	\$32,619	\$33,598	\$34,606	\$35,644	\$36,713	\$37,815	\$38,949	\$40,118	\$41,321
Insurance Trust (\$1/ton)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Post Closure Fund Contribution	\$24,402,291	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Reserve Fund	\$1,310,526	\$28,982	\$29,851	\$30,747	\$31,669	\$32,619	\$33,598	\$34,606	\$35,644	\$36,713	\$37,815	\$38,949	\$40,118	\$41,321
Contingency	\$58,803,385	\$1,365,642	\$1,394,303	\$1,423,984	\$1,454,724	\$1,486,565	\$1,519,552	\$1,553,730	\$1,589,148	\$1,625,855	\$1,663,905	\$1,703,351	\$1,744,252	\$1,786,668
Total Annual Costs	\$450,825,950	\$10,469,922	\$10,689,660	\$10,917,211	\$11,152,884	\$11,397,001	\$11,649,900	\$11,911,933	\$12,183,468	\$12,464,890	\$12,756,602	\$13,059,025	\$13,372,599	\$13,697,786
Equivalent Tip Fee (\$/ton)		\$68.06	\$67.46	\$66.89	\$66.35	\$65.82	\$65.32	\$64.85	\$64.40	\$63.96	\$63.55	\$63.17	\$62.80	\$62.45
Net Present Value	\$176,245,210	\$8,203,458	\$7,976,789	\$7,758,658	\$7,548,711	\$7,346,609	\$7,152,028	\$6,964,661	\$6,784,211	\$6,610,397	\$6,442,951	\$6,281,614	\$6,126,142	\$5,976,299
TRANSFER STATION														
Annual Costs	\$978,190,660	\$15,541,001	\$16,327,376	\$17,153,541	\$18,021,510	\$18,933,399	\$19,891,429	\$20,897,935	\$21,955,371	\$23,066,312	\$24,233,468	\$25,459,681	\$26,747,941	\$28,101,387
Equivalent Tip Fee (\$/ton)		\$101.02	\$103.04	\$105.10	\$107.21	\$109.35	\$111.54	\$113.77	\$116.04	\$118.37	\$120.73	\$123.15	\$125.61	\$128.12
Net Present Value	\$355,966,252	\$12,176,781	\$12,183,739	\$12,190,702	\$12,197,668	\$12,204,638	\$12,211,612	\$12,218,590	\$12,225,572	\$12,232,558	\$12,239,548	\$12,246,542	\$12,253,540	\$12,260,542
DIFFERENCE LF VS TS														
Annual Costs Difference	\$527,364,710	\$5,071,079	\$5,637,716	\$6,236,331	\$6,868,627	\$7,536,398	\$8,241,529	\$8,986,002	\$9,771,902	\$10,601,422	\$11,476,866	\$12,400,657	\$13,375,342	\$14,403,601
Tip Fee Difference		\$32.96	\$35.58	\$38.21	\$40.86	\$43.53	\$46.21	\$48.92	\$51.65	\$54.40	\$57.18	\$59.98	\$62.81	\$65.67
Net Present Value	\$179,721,042	\$3,973,323	\$4,206,951	\$4,432,044	\$4,648,957	\$4,858,029	\$5,059,584	\$5,253,929	\$5,441,361	\$5,622,161	\$5,796,597	\$5,964,928	\$6,127,398	\$6,284,244

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
225,913	232,690	239,671	246,861	254,267	261,895	269,752	277,844	286,180	294,765	303,608	312,716	322,098	331,761	341,713	351,965
2,628,486	2,861,176	3,100,847	3,347,708	3,601,975	3,863,870	4,133,622	4,411,466	4,697,646	4,992,411	5,296,019	5,608,735	5,930,833	6,262,594	6,604,307	6,956,272
4,512,793	4,280,103	4,040,432	3,793,571	3,539,304	3,277,409	3,007,657	2,729,813	2,443,633	2,148,868	1,845,260	1,532,544	1,210,446	878,686	536,972	185,007
\$0	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291	\$1,277,291
\$1,865,139	\$1,865,139	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119	\$1,451,119
\$2,202,815	\$2,306,501	\$2,415,588	\$2,530,376	\$2,651,186	\$2,778,354	\$2,912,238	\$3,053,216	\$3,201,688	\$3,358,078	\$3,522,834	\$3,696,432	\$3,879,374	\$4,072,191	\$4,275,448	\$4,489,741
\$30,644	\$31,563	\$32,510	\$33,485	\$34,490	\$35,525	\$36,590	\$37,688	\$38,819	\$39,983	\$41,183	\$42,418	\$43,691	\$45,001	\$46,351	\$47,742
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,355,477	\$1,396,142	\$1,438,026	\$1,481,167	\$1,525,602	\$1,571,370	\$1,618,511	\$1,667,066	\$1,717,078	\$1,768,590	\$1,821,648	\$1,876,297	\$1,932,586	\$1,990,564	\$2,050,281	\$2,111,789
\$790,695	\$814,416	\$838,848	\$864,014	\$889,934	\$916,632	\$944,131	\$972,455	\$1,001,629	\$1,031,678	\$1,062,628	\$1,094,507	\$1,127,342	\$1,161,162	\$1,195,997	\$1,231,877
\$48,105	\$49,548	\$51,035	\$52,566	\$54,143	\$55,767	\$57,440	\$59,163	\$60,938	\$62,767	\$64,650	\$66,589	\$68,587	\$70,644	\$72,764	\$74,947
\$170,243	\$175,351	\$180,611	\$186,029	\$191,610	\$197,359	\$203,279	\$209,378	\$215,659	\$222,129	\$228,793	\$235,657	\$242,726	\$250,008	\$257,508	\$265,234
\$56,478	\$58,173	\$59,918	\$61,715	\$63,567	\$65,474	\$67,438	\$69,461	\$71,545	\$73,691	\$75,902	\$78,179	\$80,524	\$82,940	\$85,428	\$87,991
\$170,243	\$175,351	\$180,611	\$186,029	\$191,610	\$197,359	\$203,279	\$209,378	\$215,659	\$222,129	\$228,793	\$235,657	\$242,726	\$250,008	\$257,508	\$265,234
\$42,561	\$43,838	\$45,153	\$46,507	\$47,903	\$49,340	\$50,820	\$52,344	\$53,915	\$55,532	\$57,198	\$58,914	\$60,682	\$62,502	\$64,377	\$66,308
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819	\$1,626,819
\$42,561	\$43,838	\$45,153	\$46,507	\$47,903	\$49,340	\$50,820	\$52,344	\$53,915	\$55,532	\$57,198	\$58,914	\$60,682	\$62,502	\$64,377	\$66,308
\$1,830,661	\$2,311,914	\$2,079,493	\$2,128,627	\$2,179,622	\$2,232,557	\$2,287,516	\$2,344,584	\$2,403,855	\$2,465,423	\$2,529,389	\$2,595,859	\$2,664,943	\$2,736,759	\$2,811,427	\$2,889,075
\$14,035,068	\$17,724,677	\$15,942,780	\$16,319,477	\$16,710,439	\$17,116,274	\$17,537,620	\$17,975,146	\$18,429,552	\$18,901,573	\$19,391,982	\$19,901,585	\$20,431,233	\$20,981,816	\$21,554,270	\$22,149,577
\$62.13	\$76.17	\$66.52	\$66.11	\$65.72	\$65.36	\$65.01	\$64.70	\$64.40	\$64.12	\$63.87	\$63.64	\$63.43	\$63.24	\$63.08	\$62.93
\$5,831,861	\$7,014,257	\$6,008,666	\$5,857,752	\$5,712,461	\$5,572,568	\$5,437,853	\$5,308,110	\$5,183,141	\$5,062,755	\$4,946,771	\$4,835,017	\$4,727,327	\$4,623,542	\$4,523,512	\$4,427,092
\$29,523,317	\$31,017,197	\$32,586,667	\$34,235,553	\$35,967,872	\$37,787,846	\$39,699,911	\$41,708,726	\$43,819,188	\$46,036,439	\$48,365,883	\$50,813,196	\$53,384,344	\$56,085,592	\$58,923,523	\$61,905,053
\$130.68	\$133.30	\$135.96	\$138.68	\$141.46	\$144.29	\$147.17	\$150.12	\$153.12	\$156.18	\$159.30	\$162.49	\$165.74	\$169.05	\$172.44	\$175.88
\$12,267,548	\$12,274,558	\$12,281,572	\$12,288,590	\$12,295,612	\$12,302,638	\$12,309,668	\$12,316,703	\$12,323,741	\$12,330,783	\$12,337,829	\$12,344,879	\$12,351,933	\$12,358,992	\$12,366,054	\$12,373,120
\$15,488,249	\$13,292,520	\$16,643,887	\$17,916,076	\$19,257,433	\$20,671,572	\$22,162,291	\$23,733,581	\$25,389,636	\$27,134,865	\$28,973,901	\$30,911,611	\$32,953,111	\$35,103,776	\$37,369,253	\$39,755,476
\$68.56	\$57.13	\$69.44	\$72.58	\$75.74	\$78.93	\$82.16	\$85.42	\$88.72	\$92.06	\$95.43	\$98.85	\$102.31	\$105.81	\$109.36	\$112.95
\$6,435,688	\$5,260,301	\$6,272,906	\$6,430,839	\$6,583,151	\$6,730,071	\$6,871,815	\$7,008,592	\$7,140,600	\$7,268,028	\$7,391,058	\$7,509,862	\$7,624,607	\$7,735,450	\$7,842,542	\$7,946,028