

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

LANDFILL INFORMATION	
Landfill Model	1
Initial Waste Acceptance Rate (tons per year)	66,350
Landfill Waste Capacity Volume (yards)	8,472,578
Landfill Capacity (tons)	6,354,433
Landfill Footprint Area (acres)	52.86
Initial Development Area (acres)	10
Landfill Life (Years)	42

LANDFILL TIMELINE INFORMATION	
Year Construction Begins	2008
Year Waste Placement Begins	2009
Year Baseline is Complete	2029
Year Begin Contribution to Closure Fund	2025
Year Begin Contribution to Post Closure Fund	2025
Year of Final Closure	2051
Last Year of Post Closure Care	2080

CALCULATED LANDFILL FINANCIAL VALUES	
Initial Bond Amount	\$17,788,518
Total Landfill Cost (real dollars)	\$481,050,585
Bond Term (years)	30
Bond Final Value	\$20,021,134
Post Closure Fund Final Value	\$51,910,438
Maximum Tip Fee (\$ per ton)	\$90.29
Minimum Tip Fee (\$ per ton)	\$69.49
Averaged Tip Fee (\$ per ton)	\$76.25

LANDFILL CALCULATED FINANCIAL VALUES (2004 DOLLARS)	
Total Development Cost	\$43,320,368
Base Liner Total Cost	\$31,489,212
Base Liner Cost per Acre	\$595,736
Final Closure Total Cost	\$11,760,611
Post Closure Fund	\$15,000,000
General Operations	\$800,613
Net Present Value	\$139,490,066
Leachate Treatment Cost (Only Model B)	\$240,000

LANDFILL VS. TRANSFER STATION COMPARISON	
Total Cost Difference (real dollars)	\$586,251,410
Net Present Value Difference	\$119,240,778
Average Tip Fee Difference (\$ per ton)	\$92.92

TRANSFER STATION CALCULATED FINANCIAL VALUES	
Total Cost (real dollars)	\$1,067,301,995
Net Present Value	\$258,730,845
Maximum Tip Fee (\$ per ton)	\$227.52
Minimum Tip Fee (\$ per ton)	\$101.02
Averaged Tip Fee (\$ per ton)	\$169.17

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

Landfill Model 1

Year	Totals	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Waste</b>														
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)		6,277,515	6,198,290	6,116,688	6,032,638	5,946,066	5,856,897	5,765,053	5,670,454	5,573,017	5,472,656	5,369,285	5,262,813	5,153,147
<b>LANDFILL</b>														
<b>Developmental Costs</b>														
Closure Reserve Fund	\$15,421,853	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Development Costs	\$25,659,838	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897
Bond Payment Fund Contribution	\$42,474,578	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819
<b>Operational Costs</b>														
General Operations	\$105,918,492	\$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	\$1,711,573	\$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)	\$37,854,280	\$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
<b>Host Town Compensation</b>														
Impact Fee (\$3.50/ton)	\$22,081,663	\$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)	\$2,686,865	\$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	\$9,508,737	\$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)	\$1,577,262	\$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	\$9,508,737	\$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	\$2,377,184	\$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	\$28,044,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Reserve Fund	\$2,377,184	\$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	\$62,745,728	\$905,870	\$922,484	\$939,677	\$957,469	\$975,885	\$994,948	\$1,014,684	\$1,035,119	\$1,056,281	\$1,078,198	\$1,100,901	\$1,124,420	\$1,148,788
<b>Total Annual Costs</b>	<b>\$481,050,585</b>	\$6,945,006	\$7,072,380	\$7,204,187	\$7,340,595	\$7,481,782	\$7,627,935	\$7,779,245	\$7,935,915	\$8,098,156	\$8,266,187	\$8,440,239	\$8,620,552	\$8,807,378
<b>Equivalent Tip Fee (\$/ton)</b>		\$90.29	\$89.27	\$88.28	\$87.34	\$86.42	\$85.54	\$84.70	\$83.89	\$83.11	\$82.37	\$81.65	\$80.97	\$80.31
Net Present Value	\$139,490,066	\$5,441,594	\$5,277,519	\$5,119,881	\$4,968,404	\$4,822,824	\$4,682,890	\$4,548,363	\$4,419,014	\$4,294,625	\$4,174,986	\$4,059,899	\$3,949,174	\$3,842,630
<b>TRANSFER STATION</b>														
Annual Costs	\$1,067,301,995	\$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	\$258,730,845	\$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
<b>DIFFERENCE LF VS TS</b>														
Annual Costs Difference	\$586,251,410	\$825,495	\$1,091,308	\$1,372,584	\$1,670,160	\$1,984,917	\$2,317,780	\$2,669,723	\$3,041,770	\$3,435,000	\$3,850,547	\$4,289,601	\$4,753,418	\$5,243,316
Tip Fee Difference		\$10.73	\$13.77	\$16.82	\$19.87	\$22.93	\$25.99	\$29.07	\$32.15	\$35.25	\$38.37	\$41.50	\$44.64	\$47.81
Net Present Value	\$119,240,778	\$646,797	\$814,351	\$975,470	\$1,130,430	\$1,279,495	\$1,422,916	\$1,560,932	\$1,693,772	\$1,821,654	\$1,944,788	\$2,063,372	\$2,177,596	\$2,287,641

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
5,040,190	4,923,845	4,804,009	4,680,579	4,553,445	4,422,498	4,287,622	4,148,700	4,005,610	3,858,228	3,706,424	3,550,065	3,389,017	3,223,136	3,052,280	2,876,297	2,695,035	2,508,335
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374
\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$1,221,897	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$1,415,819	\$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	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443
\$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
\$1,174,041	\$1,200,212	\$1,227,341	\$1,255,465	\$1,284,627	\$1,314,868	\$1,346,235	\$1,378,773	\$1,539,720	\$1,574,752	\$1,611,110	\$1,648,851	\$1,688,035	\$1,728,723	\$1,770,982	\$1,814,878	\$1,860,484	\$1,695,502
\$9,000,978	\$9,201,627	\$9,409,612	\$9,625,234	\$9,848,806	\$10,080,657	\$10,321,133	\$10,570,592	\$11,804,519	\$12,073,096	\$12,351,842	\$12,641,193	\$12,941,602	\$13,253,547	\$13,577,526	\$13,914,064	\$14,263,712	\$12,998,852
\$79.69	\$79.09	\$78.52	\$77.98	\$77.47	\$76.98	\$76.52	\$76.09	\$82.50	\$81.92	\$81.37	\$80.85	\$80.36	\$79.90	\$79.47	\$79.07	\$78.69	\$69.62
\$3,740,092	\$3,641,396	\$3,546,384	\$3,454,904	\$3,366,813	\$3,281,973	\$3,200,252	\$3,121,525	\$3,319,912	\$3,233,758	\$3,150,876	\$3,071,131	\$2,994,395	\$2,920,545	\$2,849,463	\$2,781,039	\$2,715,166	\$2,356,566
\$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
\$5,760,681	\$6,306,972	\$6,883,722	\$7,492,543	\$8,135,130	\$8,813,265	\$9,528,823	\$10,283,772	\$10,105,075	\$10,945,124	\$11,831,099	\$12,765,405	\$13,750,570	\$14,789,249	\$15,884,235	\$17,038,462	\$18,255,013	\$21,165,320
\$51.00	\$54.21	\$57.44	\$60.70	\$63.99	\$67.30	\$70.65	\$74.03	\$70.62	\$74.26	\$77.94	\$81.64	\$85.38	\$89.16	\$92.97	\$96.82	\$100.71	\$113.37
\$2,393,682	\$2,495,883	\$2,594,402	\$2,689,391	\$2,780,993	\$2,869,346	\$2,954,582	\$3,036,826	\$2,841,959	\$2,931,633	\$3,018,038	\$3,101,308	\$3,181,572	\$3,258,951	\$3,333,564	\$3,405,521	\$3,474,929	\$3,837,067

2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
192,301	198,070	204,012	210,132	216,436	222,929	229,617	236,506	243,601	250,909	258,436
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
2,316,035	2,117,965	1,913,953	1,703,821	1,487,385	1,264,455	1,034,838	798,332	554,732	303,823	45,386
\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374	\$734,374
\$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
\$52,169	\$53,734	\$55,346	\$57,006	\$58,717	\$60,478	\$62,293	\$64,161	\$66,086	\$68,069	\$70,111
\$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
\$673,053	\$693,244	\$714,042	\$735,463	\$757,527	\$780,253	\$803,660	\$827,770	\$852,603	\$878,181	\$904,527
\$81,896	\$84,353	\$86,884	\$89,490	\$92,175	\$94,940	\$97,788	\$100,722	\$103,743	\$106,856	\$110,061
\$289,828	\$298,523	\$307,478	\$316,703	\$326,204	\$335,990	\$346,070	\$356,452	\$367,145	\$378,160	\$389,504
\$48,075	\$49,517	\$51,003	\$52,533	\$54,109	\$55,732	\$57,404	\$59,126	\$60,900	\$62,727	\$64,609
\$289,828	\$298,523	\$307,478	\$316,703	\$326,204	\$335,990	\$346,070	\$356,452	\$367,145	\$378,160	\$389,504
\$72,457	\$74,631	\$76,870	\$79,176	\$81,551	\$83,997	\$86,517	\$89,113	\$91,786	\$94,540	\$97,376
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443	\$1,335,443
\$72,457	\$74,631	\$76,870	\$79,176	\$81,551	\$83,997	\$86,517	\$89,113	\$91,786	\$94,540	\$97,376
\$1,744,758	\$1,795,960	\$1,849,196	\$1,904,557	\$1,962,139	\$2,022,043	\$2,084,374	\$2,149,245	\$2,216,771	\$2,287,076	\$2,360,289
\$13,376,475	\$13,769,024	\$14,177,166	\$14,601,600	\$15,043,063	\$15,502,326	\$15,980,202	\$16,477,542	\$16,995,244	\$17,534,249	\$18,095,548
\$69.56	\$69.52	\$69.49	\$69.49	\$69.50	\$69.54	\$69.59	\$69.67	\$69.77	\$69.88	\$70.02
\$2,309,548	\$2,264,118	\$2,220,220	\$2,177,799	\$2,136,802	\$2,097,180	\$2,058,883	\$2,021,867	\$1,986,087	\$1,951,501	\$1,918,068
\$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
\$186.65	\$190.38	\$194.19	\$198.07	\$202.04	\$206.08	\$210.20	\$214.40	\$218.69	\$223.06	\$227.52
\$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
\$22,516,404	\$23,940,035	\$25,439,971	\$27,020,164	\$28,684,763	\$30,438,127	\$32,284,839	\$34,229,709	\$36,277,795	\$38,434,405	\$40,705,120
\$117.09	\$120.87	\$124.70	\$128.59	\$132.53	\$136.54	\$140.60	\$144.73	\$148.92	\$153.18	\$157.51
\$3,887,624	\$3,936,595	\$3,984,036	\$4,030,003	\$4,074,547	\$4,117,719	\$4,159,566	\$4,200,136	\$4,239,471	\$4,277,615	\$4,314,607

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

LANDFILL INFORMATION	
Landfill Model	1
Initial Waste Acceptance Rate (tons per year)	132,700
Landfill Waste Capacity Volume (yards)	8,472,578
Landfill Capacity (tons)	6,354,433
Landfill Footprint Area (acres)	52.86
Initial Development Area (acres)	10
Landfill Life (Years)	27

LANDFILL TIMELINE INFORMATION	
Year Construction Begins	2008
Year Waste Placement Begins	2009
Year Baseline is Complete	2022
Year Begin Contribution to Closure Fund	2018
Year Begin Contribution to Post Closure Fund	2018
Year of Final Closure	2036
Last Year of Post Closure Care	2065

CALCULATED LANDFILL FINANCIAL VALUES	
Initial Bond Amount	\$17,788,518
Total Landfill Cost (real dollars)	\$412,441,559
Bond Term (years)	27
Bond Final Value	\$20,021,134
Post Closure Fund Final Value	\$33,319,335
Maximum Tip Fee (\$ per ton)	\$78.09
Minimum Tip Fee (\$ per ton)	\$62.99
Averaged Tip Fee (\$ per ton)	\$65.86

LANDFILL CALCULATED FINANCIAL VALUES (2004 DOLLARS)	
Total Development Cost	\$43,320,368
Base Liner Total Cost	\$31,489,212
Base Liner Cost per Acre	\$595,736
Final Closure Total Cost	\$11,760,611
Post Closure Fund	\$15,000,000
General Operations	\$800,613
Net Present Value	\$169,555,232
Leachate Treatment Cost (Only Model B)	\$240,000

LANDFILL VS. TRANSFER STATION COMPARISON	
Total Cost Difference (real dollars)	\$444,920,525
Net Present Value Difference	\$161,671,846
Average Tip Fee Difference (\$ per ton)	\$71.04

TRANSFER STATION CALCULATED FINANCIAL VALUES	
Total Cost (real dollars)	\$857,362,084
Net Present Value	\$331,227,078
Maximum Tip Fee (\$ per ton)	\$169.05
Minimum Tip Fee (\$ per ton)	\$101.02
Averaged Tip Fee (\$ per ton)	\$136.90

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

Landfill Model 1

Year	Totals	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Waste</b>														
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)		6,200,597	6,042,147	5,878,942	5,710,842	5,537,699	5,359,361	5,175,673	4,986,475	4,791,600	4,590,880	4,384,137	4,171,193	3,951,860
<b>LANDFILL</b>														
<b>Developmental Costs</b>														
Closure Reserve Fund	\$18,658,371	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Development Costs	\$27,178,381	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313	\$1,941,313
Bond Payment Fund Contribution	\$39,901,891	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848
<b>Operational Costs</b>														
General Operations	\$63,782,488	\$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	\$849,485	\$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)	\$37,575,562	\$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
<b>Host Town Compensation</b>														
Impact Fee (\$3.50/ton)	\$21,919,078	\$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)	\$1,333,541	\$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	\$4,719,362	\$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)	\$1,565,648	\$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
<b>District Administration</b>														
Enforcement Program	\$1,179,841	\$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	\$23,797,706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Reserve Fund	\$1,179,841	\$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	\$53,796,725	\$1,381,077	\$1,409,739	\$1,439,419	\$1,470,159	\$1,502,001	\$1,534,988	\$1,569,166	\$1,604,583	\$1,641,291	\$1,679,340	\$1,718,786	\$1,759,687	\$1,802,103
<b>Total Annual Costs</b>	<b>\$412,441,559</b>	<b>\$10,588,260</b>	<b>\$10,807,997</b>	<b>\$11,035,548</b>	<b>\$11,271,221</b>	<b>\$11,515,339</b>	<b>\$11,768,238</b>	<b>\$12,030,271</b>	<b>\$12,301,806</b>	<b>\$12,583,228</b>	<b>\$12,874,940</b>	<b>\$13,177,362</b>	<b>\$13,490,937</b>	<b>\$13,816,123</b>
<b>Equivalent Tip Fee (\$/ton)</b>		<b>\$68.83</b>	<b>\$68.21</b>	<b>\$67.62</b>	<b>\$67.05</b>	<b>\$66.51</b>	<b>\$65.99</b>	<b>\$65.49</b>	<b>\$65.02</b>	<b>\$64.57</b>	<b>\$64.14</b>	<b>\$63.74</b>	<b>\$63.35</b>	<b>\$62.99</b>
Net Present Value	\$169,555,232	\$8,296,178	\$8,065,094	\$7,842,758	\$7,628,806	\$7,422,890	\$7,224,677	\$7,033,850	\$6,850,106	\$6,673,154	\$6,502,719	\$6,338,537	\$6,180,353	\$6,027,929
<b>TRANSFER STATION</b>														
Annual Costs	\$857,362,084	\$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	\$331,227,078	\$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
<b>DIFFERENCE LF VS TS</b>														
Annual Costs Difference	\$444,920,525	\$4,952,742	\$5,519,379	\$6,117,993	\$6,750,289	\$7,418,060	\$8,123,191	\$8,867,664	\$9,653,565	\$10,483,084	\$11,358,528	\$12,282,319	\$13,257,005	\$14,285,264
Tip Fee Difference		\$32.20	\$34.83	\$37.49	\$40.16	\$42.84	\$45.55	\$48.28	\$51.02	\$53.79	\$56.59	\$59.41	\$62.26	\$65.13
Net Present Value	\$161,671,846	\$3,880,603	\$4,118,645	\$4,347,943	\$4,568,861	\$4,781,748	\$4,986,935	\$5,184,740	\$5,375,466	\$5,559,404	\$5,736,829	\$5,908,005	\$6,073,187	\$6,232,613

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
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
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
3,725,947	3,493,257	3,253,586	3,006,725	2,752,458	2,490,563	2,220,811	1,942,967	1,656,787	1,362,022	1,058,414	745,698	423,600	91,839
\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741	\$1,332,741
\$1,941,313	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848	\$1,477,848
\$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
\$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
\$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
\$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
\$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
\$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
\$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
\$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
\$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
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836	\$1,699,836
\$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
\$2,300,983	\$2,055,423	\$2,102,772	\$2,151,907	\$2,202,902	\$2,255,837	\$2,310,795	\$2,367,864	\$2,427,134	\$2,488,702	\$2,552,668	\$2,619,138	\$2,688,223	\$2,760,038
\$17,640,869	\$15,758,242	\$16,121,255	\$16,497,952	\$16,888,914	\$17,294,749	\$17,716,095	\$18,153,621	\$18,608,027	\$19,080,049	\$19,570,457	\$20,080,060	\$20,609,708	\$21,160,291
\$78.09	\$67.72	\$67.26	\$66.83	\$66.42	\$66.04	\$65.68	\$65.34	\$65.02	\$64.73	\$64.46	\$64.21	\$63.99	\$63.78
\$7,330,145	\$6,236,071	\$6,075,931	\$5,921,814	\$5,773,473	\$5,630,674	\$5,493,193	\$5,360,815	\$5,233,335	\$5,110,559	\$4,992,299	\$4,878,377	\$4,768,622	\$4,662,871
\$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
\$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
\$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
\$11,882,448	\$15,258,955	\$16,465,412	\$17,737,601	\$19,078,958	\$20,493,097	\$21,983,816	\$23,555,106	\$25,211,161	\$26,956,390	\$28,795,426	\$30,733,136	\$32,774,636	\$34,925,301
\$52.60	\$65.58	\$68.70	\$71.85	\$75.04	\$78.25	\$81.50	\$84.78	\$88.10	\$91.45	\$94.84	\$98.28	\$101.75	\$105.27
\$4,937,403	\$6,038,487	\$6,205,641	\$6,366,776	\$6,522,139	\$6,671,964	\$6,816,476	\$6,955,888	\$7,090,405	\$7,220,224	\$7,345,530	\$7,466,502	\$7,583,312	\$7,696,121