



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

P.O. Box 340, Lecanto, Florida 34460

Telephone: (352) 527-7670 FAX: (352) 527-7672

TDD Telephone 527-5303

email: landfillinfo@bocc.citrus.fl.us

Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

January 10, 2013

Mr. Steve Morgan
Dept of Environmental Protection
13051 N Telecom Parkway
Temple Terrace, FL 33637-0926

**Re: Citrus County Central Class I Landfill (FDEP Permit No. 21375-008-S0/01)
Annual Site Life Calculation Transmittal for Phases 1/1A, 2 and 3**

Dear Mr. Morgan:

Pursuant to Specific Condition # C.13.e. of the subject operation permit (which requires landfill site life calculations to be submitted annually no later than January 15th of each year), please find enclosed 2012 Site Life Calculations reports and supporting documentation prepared by Citrus County Division of Engineering.

If you should need additional information, please let me know.

Sincerely,

T. Casey Stephens
Director, Citrus County
Division of Solid Waste Mgt

CC: Ken Frink, Dept. Of Public Works w/Memorandum report & Site Life Calculations
Sarah Koser, Finance w/Memorandum report & Site Life Calculations

Dept. Of Environmental Protection

JAN 14 2013

Southwest District



DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

3600 W. Sovereign Path, Suite 241
Lecanto, Florida 34461

Telephone: (352) 527-5446 Fax: (352) 527-5476
Citrus Springs/Dunnellon/Inglis/Yankeetown area - Toll Free (352) 489-2120
TTY Telephone: (352) 527-0825 or (352) 527-5312

CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2012 SITE LIFE CALCULATION ANNUAL REPORT

FDEP PERMIT NO. 21375-008-S0/01

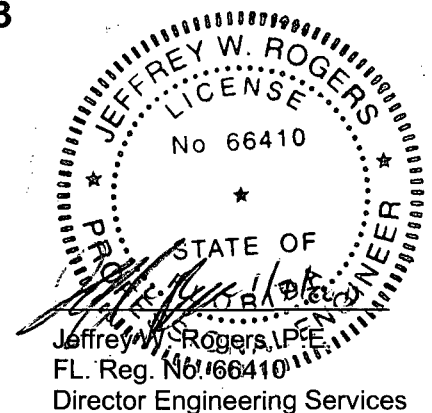
PHASES 1/1A, 2 and 3

Located in S1/T19S/R18E, Citrus County, Florida

Prepared for:

**Citrus County Department of Public Works
Solid Waste Management Division
Attn: Casey T. Stephens, Director
230 W. Gulf-to-Lake Highway
Lecanto, FL 34461
(352) 527-7670**

Prepared on January 7, 2013



Citrus County's Department of Public Works - Division of Engineering has calculated the remaining site life for Phases 1/1A, 2 and 3 of the Citrus County Central Landfill based on the past twelve months of data. The remaining airspace was estimated using population projections, projections of future waste receipts and topographic survey efforts performed by the Citrus County Survey Section in October 2012. The topographic survey information was compiled using real time kinematic satellite navigation (GPS) and is based on NAVD88 datum.

Phases 1/1A, 2, and 3:

The airspace consumed from October 2, 2011 (the date of the last topographic survey as prepared by Citrus County and as referenced in the November 2011 Site Life Calculation Report) to October 1, 2012 (the date of the current survey) was calculated by comparing the surface contours from the two surveys. The airspace consumed during this time period was 111,756 CY, as shown on sheet 1 of 3 in attachment A. The effective density of the waste deposited in the landfill was estimated by comparing the waste tonnage records supplied by Citrus County Solid Waste Management Division for the same period (81,477 tons) to the airspace consumed. The estimated effective density was determined to be 1,458.12 pounds per cubic yard. This translates to an effective airspace consumption rate of 1.37 CY per ton of waste disposed. The volume of the Cap was entered on the calculation as zero. The volume of the cap was reduced from the Airspace Available Volume Calculation of 2,040,190 CY. The Volume of the 4 foot cap was estimated at 214,614.40 CY. These calculations are shown in Attachment #2.

The remaining life through build out of Phases 1/1A, 2 and 3 was estimated by multiplying the future projected quantities of waste by the effective airspace consumption rate. Waste tonnage was assumed to increase each year at the same rate as the population as estimated by the "High" projections in the University of Florida Bureau of Economic Research (BEBR) population projections for Citrus County. The projected waste tonnage for each year was multiplied by the effective airspace consumption rate to obtain the airspace volume consumed each year. This is then subtracted from the remaining airspace for each year until the available airspace is depleted. The calculations indicate that Phases 1/1A, 2, and 3 have approximately 2,040,190 CY of available airspace as of the October 1, 2012 survey (Attachment #1, Sheet 2) and that this airspace could be completely utilized by January 2026. This assumes that all waste will continue to be disposed of in the landfill. For quick reference, the previous Site Life Calculation Report prepared in November 2011 estimated this date to be March 2027 Using High projection.

The Division of Engineering calculated the total amount of trash buried in Phases 1/1A, 2, and 3 of the landfill by subtracting the bottom surface of Phases 1 through 3 from the October 20, 2011 topographic survey surface. The results indicate that 2,890,102 CY of trash is buried in Phases 1/1A and 2. This is shown in Attachment #1, Sheet 1.

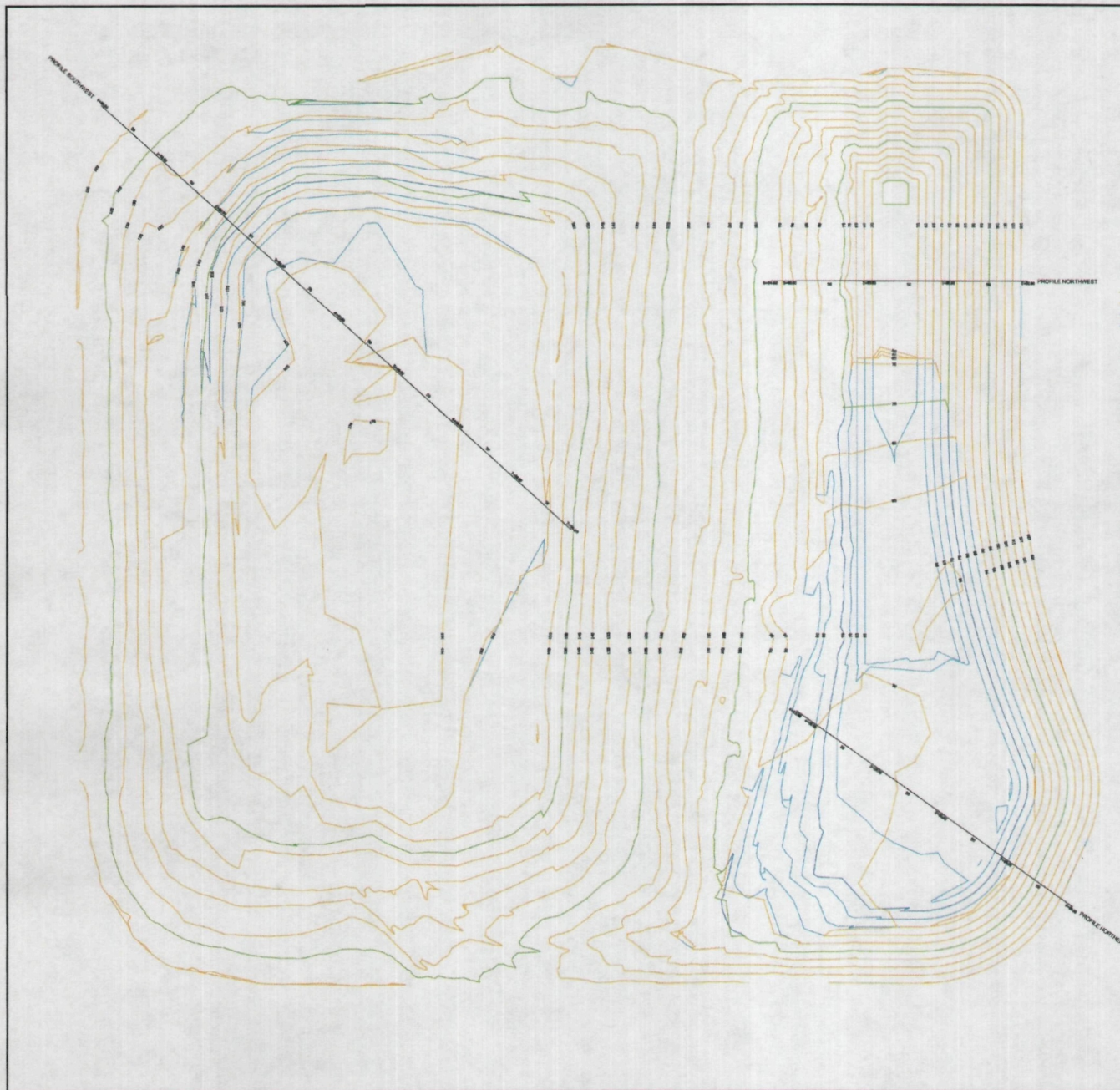
Phases 1/1A, 2, and 3

Landfill Side Slopes

Specific Condition C.13.f of the site's FDEP permit (Permit No. 21375-008-S0/01) requires that the disposal capacity and site life calculations submitted each year be accompanied by a survey indicating that the actual above grade side slopes are no greater than the design slopes and that the top elevation does not exceed the design elevation. As shown in the cross-sections provided on Sheet 3 of Attachment #1, the side slopes appear to be less than or equal to the design slopes, and the design top elevation of the landfill has not been attained.

ATTACHMENT 1

VOLUME CALCULATION DRAWINGS



PROFILE VIEWS ARE ON SHEET 3

LEGEND AND ABBREVIATIONS

—	EXISTING ELEVATION CONTOUR (25' INTERVAL) 10/01/2012 SURVEY
—	EXISTING ELEVATION CONTOUR (5' INTERVAL) 10/01/2012 SURVEY
—	PREVIOUS ELEVATION CONTOUR (25' INTERVAL) 10/01/2011 SURVEY
—	PREVIOUS ELEVATION CONTOUR (5' INTERVAL) 10/01/2011 SURVEY

SITE VOLUME TABLE

SITE	CITRUS COUNTY CENTRAL LANDFILL
SURFACE 1	OCTOBER 2011 (FIELD SURVEY)
SURFACE 2	OCTOBER 2012 (FIELD SURVEY)
CUT	3126 CU. YD.
FILL	114882 CU. YD.
NET	111756 CU. YD.
METHOD	COMPOSITE

SURVEY SOURCE NOTE

FIELD SURVEY PERFORMED BY CITRUS COUNTY SURVEY SECTION USING REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING. THE ESTIMATED POSITIONAL ACCURACY FOR A SURVEY PERFORMED IN THIS MANNER IS $\pm 0.07'$. THE ELEVATIONS ESTABLISHED BY THIS METHOD HAVE AN ACCURACY OF $\pm 0.07'$ AND REFLECT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

THE BASE TOPOGRAPHY FOR THIS SURVEY IS A MAP PREPARED BY KING ENGINEERING PREPARED FROM PHOTOGRAMMETRY PERFORMED BY PICKETT AND ASSOCIATES DATED 09/15/2011.

CONTOUR ELEVATIONS SHOWN HEREON REFLECT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) CONVERTED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 BY A FACTOR OF $+0.85'$. CONTOUR INTERVAL IS 5.0 FEET.

SITE BENCHMARKS USED FOR QUALITY CONTROL CHECKING ARE NATIONAL GEODETIC SURVEY (NGS) CONTROL STATIONS "CITRUS 13" AND "CITRUS 14".

MAP INFORMATION FILED
DATE 11/07/2012
BY 11/07/2012
11/07/2012

CITRUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

CITRUS COUNTY
CENTRAL LANDFILL
OCTOBER 2012 SITE
LIFE CALCULATION
REPORT



CITRUS COUNTY
CENTRAL LANDFILL
FINAL CLOSURE
DESIGN
vs.
10/01/2012 SURVEY
VOLUME ESTIMATE
PLAN

Signature
JEREMY W. ROBERTS, P.E.
COUNTY ENGINEER
FL. REG. NO. 88410

PROJECT NO.	12-483	SHEET NO.	1
DATE	11/07/2012		
SCALE	1" = 80'		
		OF	3

3400 FOURTH AVENUE
LELAND, FL 33428-3440
(888) 327-5448

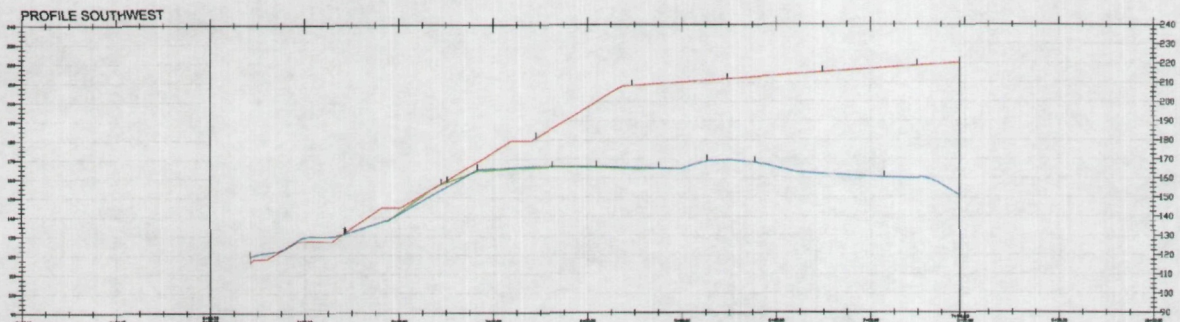
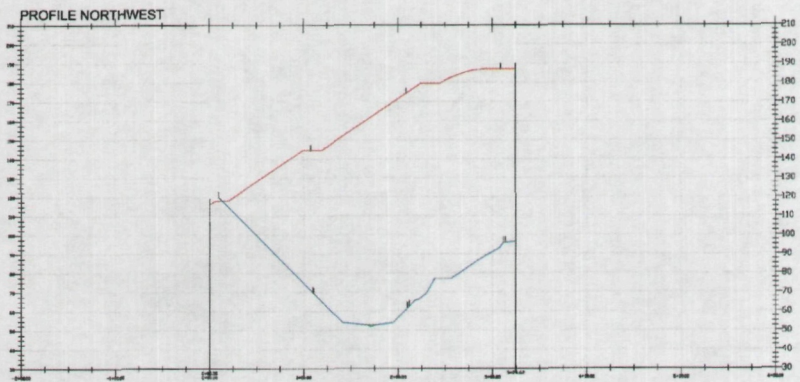
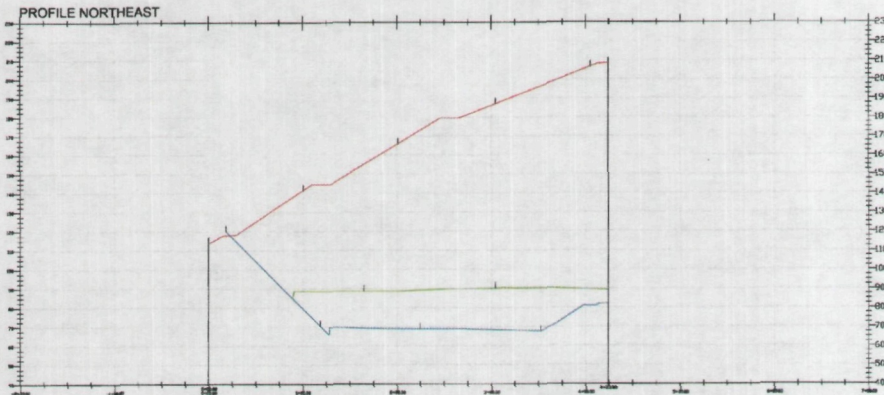
**CITRUS COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

**CITRUS COUNTY
CENTRAL LANDFILL
OCTOBER 2012 SITE
LIFE CALCULATION
REPORT**



**CITRUS COUNTY
CENTRAL LANDFILL
FINAL CLOSURE
10/01/2012 SURVEY
10/01/2011 SURVEY
PROFILES**

[Signature] 1/4/2013
APPROVED BY: KING ENGINEERING, P.C.
COUNTY ENGINEER
FL. REG. NO. 18818
PROJECT NO. 12-483 SHEET NO. **3**
DATE: 11/07/2012 OF
SCALE: 1" = 80' **3**



PROFILE PLAN VIEWS ARE ON SHEETS 1 AND 2

LEGEND AND ABBREVIATIONS

- SURFACE 1
- SURFACE 2
- SURFACE 3

SITE VOLUME TABLE

SITE	CITRUS COUNTY CENTRAL LANDFILL
SURFACE 1	FINAL CLOSURE (DESIGN)
SURFACE 2	OCTOBER 2011 (FIELD SURVEY)
SURFACE 3	OCTOBER 2012 (FIELD SURVEY)

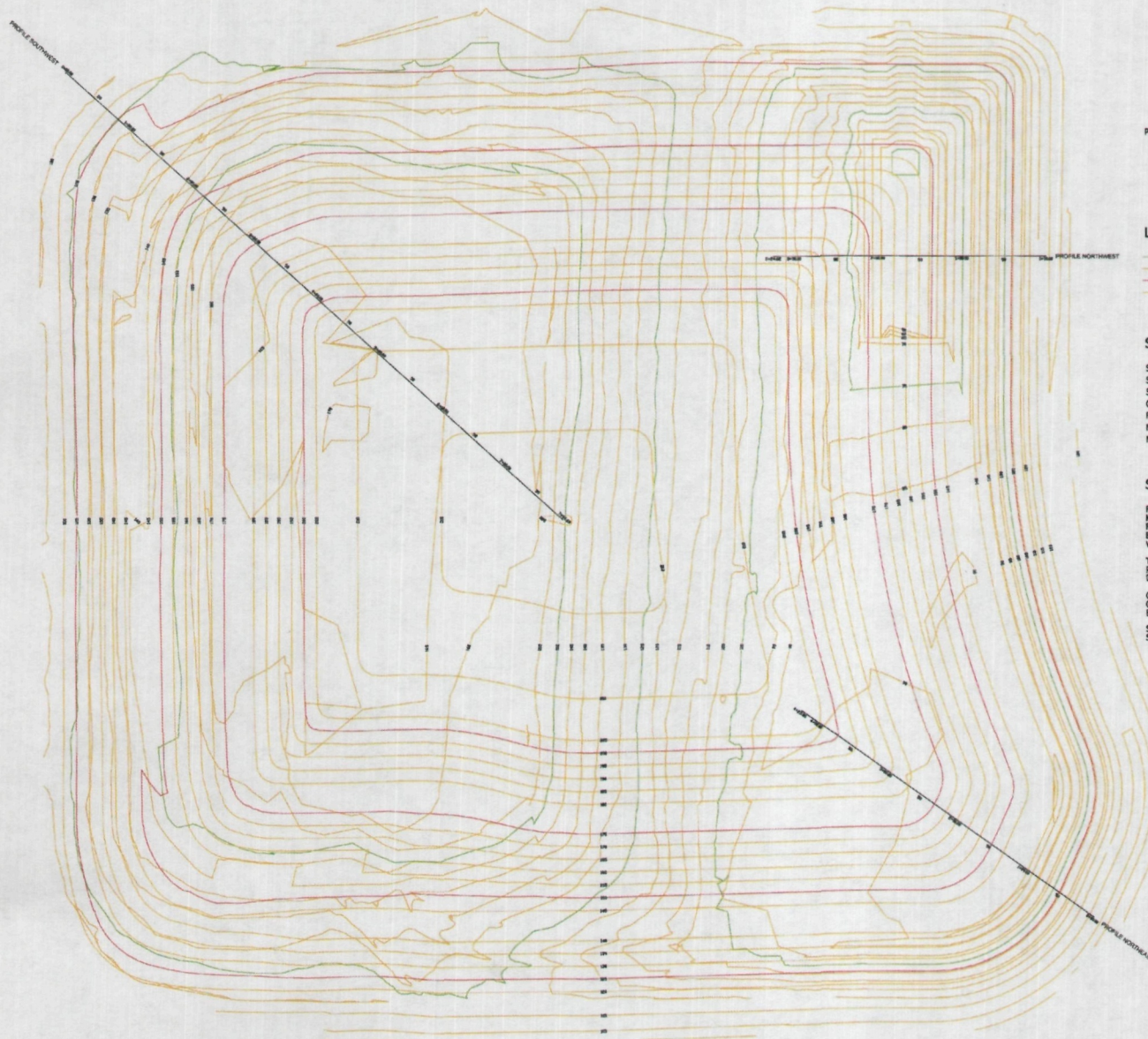
SURVEY SOURCE NOTE

FIELD SURVEY PERFORMED BY CITRUS COUNTY SURVEY SECTION USING REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING. THE ESTIMATED POSITIONAL ACCURACY FOR A SURVEY PERFORMED IN THIS MANNER IS $\pm 0.07'$. THE ELEVATIONS ESTABLISHED BY THIS METHOD HAVE AN ACCURACY OF $\pm 0.07'$ AND REFLECT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

THE BASE TOPOGRAPHY FOR THIS SURVEY IS A MAP PREPARED BY KING ENGINEERING PREPARED FROM PHOTOGRAMMETRY PERFORMED BY PICKETT AND ASSOCIATES DATED 09/15/2011.

CONTOUR ELEVATIONS SHOWN HEREON REFLECT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) CONVERTED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 BY A FACTOR OF +0.89'. CONTOUR INTERVAL IS 5.0 FEET.

SITE BENCHMARKS USED FOR QUALITY CONTROL CHECKING ARE NATIONAL GEODETIC SURVEY (NGS) CONTROL STATIONS "CITRUS 13" AND "CITRUS 14".



PROFILE VIEWS ARE ON SHEET 3

LEGEND AND ABBREVIATIONS

EXISTING ELEVATION CONTOUR (25' INTERVAL) 10/01/2012 SURVEY
 EXISTING ELEVATION CONTOUR (5' INTERVAL) 10/01/2012 SURVEY
 DESIGN ELEVATION CONTOUR (25' INTERVAL) FINAL CLOSURE
 DESIGN ELEVATION CONTOUR (5' INTERVAL) FINAL CLOSURE

SITE VOLUME TABLE

SITE	CITRUS COUNTY CENTRAL LANDFILL
SURFACE 1	FINAL CLOSURE (DESIGN)
SURFACE 2	OCTOBER 2012 (FIELD SURVEY)
CUT	12758 CU. YD.
FILL	2052948 CU. YD.
NET	2040190 CU. YD.
METHOD	COMPOSITE

SURVEY SOURCE NOTE

FIELD SURVEY PERFORMED BY CITRUS COUNTY SURVEY SECTION USING REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING. THE ESTIMATED POSITIONAL ACCURACY FOR A SURVEY PERFORMED IN THIS MANNER IS $\pm 0.07'$. THE ELEVATIONS ESTABLISHED BY THIS METHOD HAVE AN ACCURACY OF $\pm 0.07'$ AND REFLECT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).

THE BASE TOPOGRAPHY FOR THIS SURVEY IS A MAP PREPARED BY KING ENGINEERING PREPARED FROM PHOTOGRAMMETRY PERFORMED BY PICKETT AND ASSOCIATES DATED 09/15/2011.

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SITE BENCHMARKS USED FOR QUALITY CONTROL CHECKING ARE NATIONAL GEODETIC SURVEY (NGS) CONTROL STATIONS "CITRUS 13" AND "CITRUS 14".

2000 SURVEYOR PART 1
 LEONARD J. LARSEN
 10000 10/01/2012

CITRUS COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

CITRUS COUNTY CENTRAL LANDFILL OCTOBER 2012 SITE LIFE CALCULATION REPORT



CITRUS COUNTY
 CENTRAL LANDFILL
 FINAL CLOSURE
 DESIGN
 vs.
 10/01/2012 SURVEY
 VOLUME ESTIMATE
 PLAN

[Signature]
 APPROVED BY: ROBERTA J. S.
 COUNTY ENGINEER
 10, 10/01/2012

PROJECT NO.	12-483	SHEET NO.	2
DATE	11/07/2012	OF	3
SCALE	1" = 80'		

ATTACHMENT 2

SITE LIFE CALCULATIONS

**CITRUS COUNTY'S DIVISION OF ENGINEERING
CENTRAL LANDFILL SITE LIFE CALCULATION
DECEMBER 2012 REPORT**

SHEET:1 OF 1

Objective: Calculate the October 2012 remaining site life for Phases 1 thru 3 using waste tonnage records from Citrus County and calculated waste generation projections.

Approach:

1. Calculate the available airspace as of the most recent survey.
2. Calculate the "Effective Density" using volume consumed between October 2011 through September 2012.
3. Use the effective density to calculate the remaining life of the available airspace.

Available Airspace Calculation:

Airspace available from Oct 2012 to Final Grade = 2,040,190 CY

Air volume consumed Oct 2011 through September 2012= 111,756 CY

Effective Density Calculation:

Waste Disposed of between 10/2011 through 09/2012 = 81,477 tons (per records)

Effective Density=	<u>81,477</u>	<u>ton</u>	<u>2,000</u>	<u>lbs</u>	<u>1458.12</u>	lbs/CY
	111,756	CY		ton		

Effective Airspace Consumption Rate=	<u>111,756</u>	<u>CY</u>	<u>1.37</u>	CY/ton
	81,477	ton		

Assuming the waste will be filled up to the final capacity and allowed to settle before placing the cover soil.

Cap Volume = 0 CY

Subtract Cap Volume from air volume (airspace available) to determine useable waste volume for site life calculation.

Remaining Volume= 2,040,190 CY - 0 CY = 2,040,190 CY

Site Life Calculation

The site life calculation is based on Citrus County waste tonnage records and population projections from the University of Florida Bureau of Business and Economic research (BEER). The population mirrors the BEER high estimates. Therefore, that population projection was used. The tonnage used for the waste projection was the average daily period from Jan 2011 to Dec 2011.

FISCAL YEAR	TONNAGE	VOLUME CONSUMED (CY)	NET REMAINING AIRSPACE (CY)
			2,040,190
2011-2012	85,226	116,898	1,923,292
2012-2013	87,655	120,230	1,803,061
2013-2014	90,085	123,563	1,679,499
2014-2015	92,514	126,895	1,552,604
2015-2016	94,944	130,227	1,422,376
2016-2017	97,111	133,201	1,289,176
2017-2018	99,279	136,174	1,153,002
2018-2019	101,447	139,147	1,013,855
2019-2020	103,615	142,121	871,734
2020-2021	105,782	145,094	726,640
2021-2022	108,031	148,178	578,463
2022-2023	110,279	151,262	427,201
2023-2024	112,528	154,346	272,855
2024-2025	114,776	157,430	115,425
2025-2026	117,024	160,514	-45,089

CONCLUSION: Estimated Phases 1 thru 3 Fill Completion Date = January 2026

**CITRUS COUNTY CENTRAL LANDFILL
WASTE TONNAGE PROJECTION (High)**

Year	*Population (BEER Estimate)	% Change in Population	Average Day Tonnage to Landfill	Tons/Year
2010	141,236			
2011	140,956	-0.20%	234	85,226
2012	145,092	2.85%	240	87,655
2013	149,228	2.77%	247	90,085
2014	153,364	2.70%	253	92,514
2015	157,500	2.63%	260	94,944
2016	161,180	2.28%	266	97,111
2017	164,860	2.23%	272	99,279
2018	168,540	2.18%	278	101,447
2019	172,220	2.14%	284	103,615
2020	175,900	2.09%	290	105,782
2021	179,720	2.13%	296	108,031
2022	183,540	2.08%	302	110,279
2023	187,360	2.04%	308	112,528
2024	191,180	2.00%	314	114,776
2025	195,000	1.96%	321	117,024
2026	207,393	5.98%	340	124,018
2027	209,233	0.88%	343	125,108
2028	211,030	0.85%	346	126,173
2029	212,785	0.82%	349	127,214
2030	214,500	0.80%	351	128,231
2031	229,165	6.40%	374	136,437
2032	230,437	0.55%	376	137,190
2033	231,682	0.54%	378	137,927
2034	232,903	0.52%	380	138,650
2035	234,100	0.51%	382	139,359
2036	248,352	5.74%	404	147,357
2037	249,776	0.57%	406	148,197
2038	251,175	0.56%	408	149,022
2039	252,550	0.54%	411	149,833
2040	253,900	0.53%	350	127,891

*Population projection data for Citrus County originated from Florida Population Studies created by the University of Florida Bureau of Economic Research (BEER). A linear interpolation for yearly population increase was performed between the years in bold.

The 2012 tons per year is based on scale house data from Waste Management Department.



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

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Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

January 9, 2013

Steve Morgan
Department of Environmental Protection
Solid Waste Section
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

Re: **Citrus County Central Landfill - Permit No. 21375-018-SO/01**
Leachate Generation and Daily Precipitation Report

Dear Mr. Morgan:

In compliance with Specific Condition C.8.e.2. of the above referenced permit, enclosed please find the quarterly Leachate Generation and Daily Precipitation Report for the months of October, November and December 2012, together with the Year-to-Date Leachate Tracking Summary.

If you should need additional information, please let me know.

Sincerely,

T. Casey Stephens
Director, Citrus County
Division of Solid Waste Management

Enclosures

CC: Ken Frink, Director, Department of Public Works (w/Y-T-D Summary)
Ed Hilton, SCS Engineers – Tampa Office (Electronic submittal)

**CITRUS COUNTY CENTRAL LANDFILL
LEACHATE GALLONS**

MONTH	RAIN DATA	7-ACRE TOTAL OF LEACHATE	80-ACRE TOTAL OF PRIMARY LEACHATE PHASE 1,1A, 2 & 3	80-ACRE TOTAL OF SECONDARY LEACHATE PHASE 1,1A, 2 & 3	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE	LEACHATE (RAW) DISPOSAL OFF-SITE	EFFLUENT DISPOSAL ON-SITE	EFFLUENT DISPOSAL OFF-SITE	TOTAL DISPOSAL	BALANCE
JANUARY	1.20	18999	178873	1601	9101	208574	0	224903	0	224903	-16329
FEBRUARY	4.90	17109	291068	3784	0	311961	38096	245427	0	283523	28438
MARCH	1.30	18495	214104	4042	39655	276296	146206	214319	0	360525	-84229
APRIL	0.00	15442	221726	4419	27051	268638	0	201450	0	201450	67188
MAY	7.70	20314	510144	11217	0	541675	358812	180979	0	539791	1884
JUNE	16.60	16798	3201421	92267	0	3310486	3034965	620537	0	3655502	-345016
JULY	10.30	13997	1958022	70736	66000	2108755	1405501	662145	0	2067646	41109
AUGUST	11.05	16032	1467075	12726	274800	1770633	1365539	652947	0	2018486	-247853
SEPTEMBER	3.77	17352	1593941	7003	684000	2302296	1039872	619702	0	1659574	642722
OCTOBER	2.59	12850	1065825	5874	0	1084549	966752	682317	0	1649069	-564520
NOVEMBER	0.13	10320	232000	6512	0	248832	0	383876	0	383876	-135044
DECEMBER	1.28	16383	244771	4381	9000	274535	0	275872	0	275872	-1337
											0
YTD TOTAL	60.82	194091	11178970	224562	1109607	12707230	8355743	4964474	0	13320217	-612987

CITRUS COUNTY CENTRAL LANDFILL

DAILY GALLONS LEACHATE GENERATED, DISPOSED AND PRECIPITATION DATA

DATE	DAY	RAIN DATA	80-ACRE TOTAL SECONDARY PHASE 1, 1A, 2 & 3	80-ACRE TOTAL PRIMARY PHASE 1, 1A, 2 & 3	7 ACRE LEACHATE FLOW	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE GENERATED	LEACHATE (RAW) DISPOSAL OFF-SITE TO BW WWTP	LEACHATE EFFLUENT DISPOSAL ON-SITE	LEACHATE EFFLUENT DISPOSAL OFF-SITE	TOTAL LEACHATE DISPOSAL	BALANCE
12/1/12	Sat	0.00	45	6659	1686	0	8390	0	9365		9365	
12/2/12	Sun	0.01	236	4854	450	0	5540	0	7988		7988	
12/3/12	Mon	0.00	79	4054	704	0	4837	0	7866		7866	
12/4/12	Tue	0.01	86	9733	741	0	10560	0	7650		7650	
12/5/12	Wed	0.00	29	2390	220	4500	7139	0	8856		8856	
12/6/12	Thu	0.00	27	7708	738	4500	12973	0	8450		8450	
12/7/12	Fri	0.00	17	6145	678	0	6840	0	7965		7965	
12/8/12	Sat	0.00	19	8316	259	0	8594	0	8270		8270	
12/9/12	Sun	0.01	58	9315	664	0	10037	0	8460		8460	
12/10/12	Mon	0.37	225	8208	211	0	8644	0	8262		8262	
12/11/12	Tue	0.07	58	9078	580	0	9716	0	0		0	
12/12/12	Wed	0.07	165	8029	703	0	8897	0	6450		6450	
12/13/12	Thu	0.01	173	7551	231	0	7955	0	7840		7840	
12/14/12	Fri	0.00	95	9160	544	0	9799	0	7528		7528	
12/15/12	Sat	0.01	76	7595	327	0	7998	0	8456		8456	
12/16/12	Sun	0.01	43	7566	764	0	8373	0	8456		8456	
12/17/12	Mon	0.01	13	6602	363	0	6978	0	8412		8412	
12/18/12	Tue	0.00	377	6429	461	0	7267	0	7988		7988	
12/19/12	Wed	0.00	552	8965	511	0	10028	0	8838		8838	
12/20/12	Thu	0.06	87	11118	398	0	11603	0	8802		8802	
12/21/12	Fri	0.08	227	4934	192	0	5353	0	7561		7561	
12/22/12	Sat	0.03	225	7229	260	0	7714	0	8150		8150	
12/23/12	Sun	0.00	213	13425	131	0	13769	0	7455		7455	
12/24/12	Mon	0.00	0	7991	148	0	8139	0	8166		8166	
12/25/12	Tue	0.00	89	7994	243	0	8326	0	8892		8892	
12/26/12	Wed	0.15	186	5082	303	0	5571	0	8255.0		8255	
12/27/12	Thu	0.00	249	7056	0	0	7305	0	13284		13284	
12/28/12	Fri	0.05	52	14792	2179	0	17023	0	12966		12966	
12/29/12	Sat	0.31	434	16814	0	0	17248	0	13650		13650	
12/30/12	Sun	0.01	246	6052	1318	0	7616	0	15650		15650	
12/31/12	Mon	0.01	0	3927	376	0	4303	0	15941		15941	
TOTALS		1.28	4381	244771	16383	9000	274535	0	275872	0	275872	-1337

PHASE 1 (16.5), 1A (3.3), 2 (6) & 3 (6.8) TOTAL ACRES 32.6 - 7.7 OPEN, 24.9 INTERMEDIATE, 0.0 CLOSED

12/11/12- Power glitch causing plant pumps to trip out. No batches processed that day. Plant back on line 12/12/12.

12/5/12-12/6/12- Cleaned and inspected south side(#1) storage tank, removed diffusers and cleaned and reinstalled.

CITRUS COUNTY CENTRAL LANDFILL

DAILY GALLONS LEACHATE GENERATED, DISPOSED AND PRECIPITATION DATA

DATE	DAY	RAIN DATA	80-ACRE TOTAL SECONDARY PHASE 1, 1A, 2 & 3	80-ACRE TOTAL PRIMARY PHASE 1, 1A, 2 & 3	7 ACRE LEACHATE FLOW	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE GENERATED	LEACHATE (RAW) DISPOSAL OFF-SITE TO BW WWTP	LEACHATE EFFLUENT DISPOSAL ON-SITE	LEACHATE EFFLUENT DISPOSAL OFF-SITE	TOTAL LEACHATE DISPOSAL	BALANCE
11/1/12	Thu	0.00	249	4852	128	0	5229	0	13890		13890	
11/2/12	Fri	0.00	748	9817	503	0	11068	0	13348		13348	
11/3/12	Sat	0.00	894	15510	1375	0	17779	0	13650		13650	
11/4/12	Sun	0.02	37	9557	540	0	10134	0	14062		14062	
11/5/12	Mon	0.00	118	19806	160	0	20084	0	17766		17766	
11/6/12	Tue	0.04	138	11326	613	0	12077	0	22140		22140	
11/7/12	Wed	0.00	229	9827	59	0	10115	0	20490		20490	
11/8/12	Thu	0.00	261	5774	495	0	6530	0	8870		8870	
11/9/12	Fri	0.00	246	5056	17	0	5319	0	8862		8862	
11/10/12	Sat	0.00	153	6007	480	0	6640	0	8564		8564	
11/11/12	Sun	0.00	86	7661	17	0	7764	0	17712		17712	
11/12/12	Mon	0.00	34	6200	24	0	6258	0	14580		14580	
11/13/12	Tue	0.04	15	6659	492	0	7166	0	16450		16450	
11/14/12	Wed	0.00	367	6626	23	0	7016	0	15950		15950	
11/15/12	Thu	0.02	110	7291	20	0	7421	0	17671		17671	
11/16/12	Fri	0.00	124	9251	489	0	9864	0	13284		13284	
11/17/12	Sat	0.00	89	3753	17	0	3859	0	12113		12113	
11/18/12	Sun	0.00	196	8227	25	0	8448	0	13284		13284	
11/19/12	Mon	0.00	73	6446	558	0	7077	0	12480		12480	
11/20/12	Tue	0.00	511	8149	1185	0	9845	0	11650		11650	
11/21/12	Wed	0.00	369	6394	655	0	7418	0	10230		10230	
11/22/12	Thu	0.00	213	6142	39	0	6394	0	11045		11045	
11/23/12	Fri	0.00	194	8096	472	0	8762	0	9845		9845	
11/24/12	Sat	0.00	215	6827	505	0	7547	0	10560		10560	
11/25/12	Sun	0.00	239	5280	83	0	5602	0	8966		8966	
11/26/12	Mon	0.00	96	6716	504	0	7316	0	10860		10860	
11/27/12	Tue	0.00	31	5597	109	0	5737	0	8894		8894	
11/28/12	Wed	0.00	82	6359	479	0	6920	0	8650		8650	
11/29/12	Thu	0.00	323	7046	28	0	7397	0	9560		9560	
11/30/12	Fri	0.01	72	5748	226	0	6046	0	8450		8450	
TOTALS		0.13	6512	232000	10320	0	248832	0	383876	0	383876	-135044

PHASE 1 (16.5), 1A (3.3), 2 (6) & 3 (6.8) TOTAL ACRES 32.6 - 7.7 OPEN, 24.9 INTERMEDIATE, 0.0 CLOSED

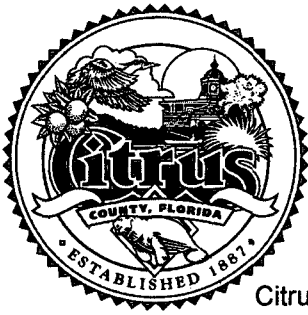
CITRUS COUNTY CENTRAL LANDFILL

DAILY GALLONS LEACHATE GENERATED, DISPOSED AND PRECIPITATION DATA

DATE	DAY	RAIN DATA	80-ACRE TOTAL SECONDARY PHASE 1, 1A, 2 & 3	80-ACRE TOTAL PRIMARY PHASE 1, 1A, 2 & 3	7 ACRE LEACHATE FLOW	SURFACE LEACHATE OR SPECIAL PROJECT	TOTAL LEACHATE GENERATED	LEACHATE (RAW) DISPOSAL OFF-SITE TO BW WWTP	LEACHATE EFFLUENT DISPOSAL ON-SITE	LEACHATE EFFLUENT DISPOSAL OFF-SITE	TOTAL LEACHATE DISPOSAL	BALANCE
10/1/12	Mon	0.58	388	70431	680	0	71499	39343	21500		60843	
10/2/12	Tue	0.08	15	29818	241	0	30074	36889	22348		59237	
10/3/12	Wed	0.33	2	53450	650	0	54102	11818	23260		35078	
10/4/12	Thu	0.30	15	88866	671	0	89552	37856	22564		60420	
10/5/12	Fri	1.20	27	9622	478	0	10127	0	22310		22310	
10/6/12	Sat	0.09	275	12047	268	0	12590	0	21640		21640	
10/7/12	Sun	0.01	7	13212	699	0	13918	23468	22152		45620	
10/8/12	Mon	0.00	16	39840	85	0	39941	41319	23140		64459	
10/9/12	Tue	0.01	384	80635	721	0	81740	32619	22827		55446	
10/10/12	Wed	0.00	360	45328	248	0	45936	44012	21680		65692	
10/11/12	Thu	0.00	337	78761	560	0	79658	83194	22140		105334	
10/12/12	Fri	0.00	238	112607	91	0	112936	64168	20891		85059	
10/13/12	Sat	0.00	126	63666	556	0	64348	0	23060		23060	
10/14/12	Sun	0.00	393	52094	146	0	52633	0	22450		22450	
10/15/12	Mon	0.00	112	47797	320	0	48229	139482	22890		162372	
10/16/12	Tue	0.00	478	40674	522	0	41674	60453	21956		82409	
10/17/12	Wed	0.00	101	30458	280	0	30839	109892	23012		132904	
10/18/12	Thu	0.00	93	23651	245	0	23989	0	20450		20450	
10/19/12	Fri	0.02	105	21329	726	0	22160	65983	22561		88544	
10/20/12	Sat	0.00	266	18127	235	0	18628	0	22651		22651	
10/21/12	Sun	0.00	144	14952	529	0	15625	0	23430		23430	
10/22/12	Mon	0.00	110	19460	507	0	20077	85942	23123		109065	
10/23/12	Tue	0.00	61	19999	530	0	20590	0	23456		23456	
10/24/12	Wed	0.00	36	13520	142	0	13698	0	22140		22140	
10/25/12	Thu	0.00	12	13247	600	0	13859	0	22860		22860	
10/26/12	Fri	0.00	31	12686	374	0	13091	60283	22845		83128	
10/27/12	Sat	0.00	298	6626	246	0	7170	0	21687		21687	
10/28/12	Sun	0.00	269	7646	620	0	8535	0	23160		23160	
10/29/12	Mon	0.00	331	9762	169	0	10262	30031	20125		50156	
10/30/12	Tue	0.00	237	7193	591	0	8021	0	19487		19487	
10/31/99	Sun	0.00	607	8321	120	0	9048	0	14522		14522	
TOTALS		2.62	5874	1065825	12850	0	1084549	966752	682317	0	1649069	-564520

PHASE 1 (16.5), 1A (3.3), 2 (6) & 3 (6.8) TOTAL ACRES 32.6 - 7.7 OPEN, 24.9 INTERMEDIATE, 0.0 CLOSED

Hauled 887,798 gallons of leachate to Meadowcrest WWTP for processing and 78,954 gallons to Brentwood WWTP for processing.



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

P.O. Box 340, Lecanto, Florida 34460

Telephone: (352) 527-7670 FAX: (352) 527-7672

email: landfillinfo@bocc.citrus.fl.us

TDD Telephone 527-5303

Citrus Springs/Dunnellon/Ingles/Yankeetown area Toll Free (352) 489-2120

January 09, 2013

Mr. John Morris,
Florida Department of
Environmental Protection
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

**RE: MONTHLY LEACHATE MONITORING REPORT FOR CITRUS COUNTY CENTRAL
LANDFILL 60 AND 80 ACRE SITES - PERMIT NO. 21375-018-SO/01**

Dear Mr. Morris:

Enclosed please find the quarterly Operator's Reports for the months of October, November, and December, 2012.

The monthly analytical reports are now included with the quarterly report submitted by CDM for the Landfill. The attached summary is included for reference.

Should further information or clarification be necessary, please do not hesitate to contact me.

Sincerely,

T. Casey Stephens
Director, Division of
Solid Waste Management

CC: Ken Frink, Director, Department of Public Works (w/xls sheet)
✓ Steve Morgan, Florida Department of Environmental Protection (w/xls sheet)

CITRUS COUNTY CENTRAL LANDFILL
WEEKLY LEACHATE MONITORING

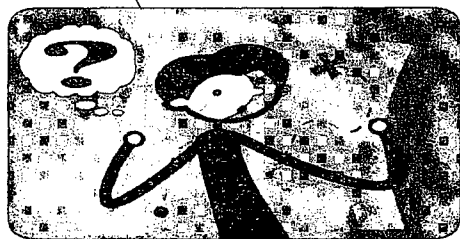
SAC
Laboratories

MAXIMUM CONTAMINANT LEVEL BY PERMIT

Results	20	10	20
DATE	CBOD	NITRATE	SUSPENDED
< 5 day	MG/L	MG/L	SOLIDS
MG/L	MG/L	MG/L	MG/L
10/2/12	1.13	0.45	2.0
11/5/12	16.66	0.12	1.5
12/4/12	1.23	5.3	2.5

cjw

ATTENTION



**Blueprints were
removed from this
location in the file
and inserted
separately.**