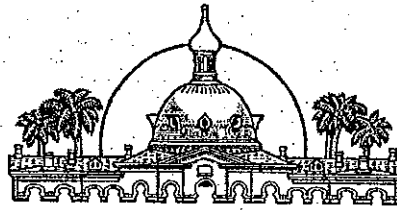


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MEMORANDUM

DATE: November 14, 2011

TO: Patricia Berry, Group Manager, Solid Waste Management Group

FROM:  Larry Ruiz, General Manager III, Solid Waste Management Group

SUBJECT: Top of Phosphatic Clay Liner Elevations, Southeast County Landfill

Dept. Of Environmental Protection
JAN 18 2012
Southwest District

The Solid Waste Management Group staff has received and reviewed the attached Report of Survey from Pickett & Associates, Inc. (Pickett) dated October 1, 2011. The elevations provided by Pickett were used to calculate the approximate elevations of the top of the phosphatic clay liner at the Pump Station B Sump location. As shown on Table 1, the Pump Station B sump did not show a significant change in elevation for this quarter.

Please advise should you have any questions concerning the information provided.

Attachments

TABLE 1. APPROXIMATE TOP OF CLAY ELEVATIONS
PUMP STATION B SUMP
SOUTHEAST COUNTY LANDFILL

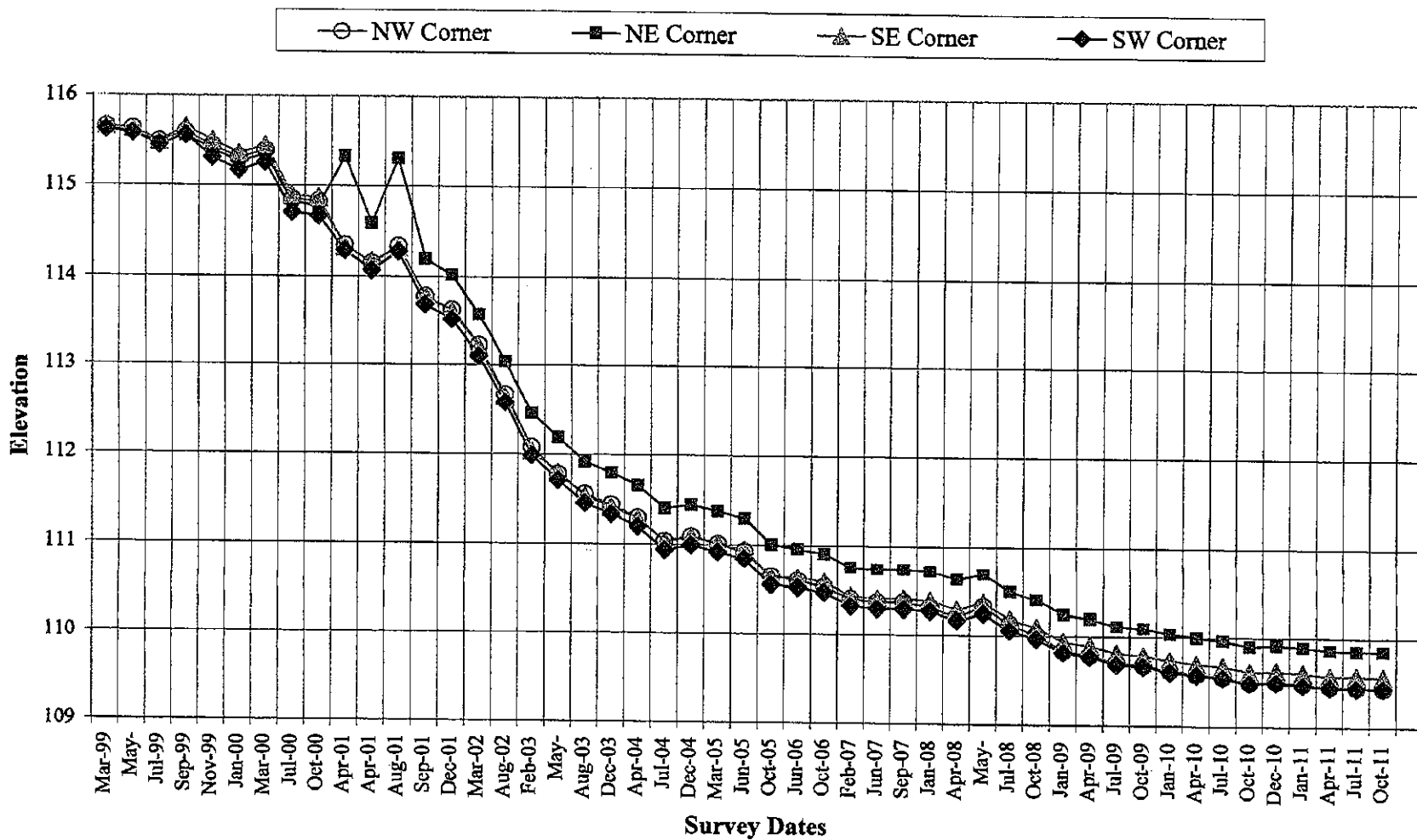
DATE	NW	NE	SE	SW
March 3, 1999	115.65	115.63	115.66	115.62
May 4, 1999	115.63	115.59	115.63	115.58
July 28, 1999	115.49	115.46	115.49	115.45
September 17, 1999 ²	115.59	115.55	115.65	115.56
November 11, 1999	115.44	115.40	115.50	115.31
January 3, 2000	115.31	115.26	115.36	115.17
March 30, 2000	115.39	115.35	115.45	115.26
July 5, 2000 ³	114.85	114.82	114.90	114.71
October 5, 2000	114.83	114.78	114.87	114.67
April 6, 2001	114.35	115.33	114.33	114.29
April 18, 2001 ²	114.15	114.59	114.17	114.07
August 8, 2001	114.34	115.31	114.32	114.28
September 19, 2001 ²	113.78	114.20	113.79	113.69
December 18, 2001	113.63	114.02	113.62	113.52
March 29, 2002	113.22	113.58	113.21	113.10
August 15, 2002 ²	112.67	113.04	112.64	112.58
February 1, 2003	112.08	112.46	112.04	111.99
May 1, 2003	111.78	112.19	111.80	111.71
September 2, 2003	111.56	111.92	111.54	111.46
December 1, 2003	111.44	111.80	111.42	111.34
April 1, 2004	111.30	111.66	111.29	111.20
July 31, 2004	111.04	111.41	111.04	110.94
December 1, 2004	111.09	111.45	111.10	111.00
March 1, 2005	111.01	111.38	111.02	110.92
June 2, 2005	110.93	111.30	110.95	110.85
October 1, 2005	110.65	111.01	110.65	110.55
February 1, 2006	110.67	111.03	110.69	110.58
June 6, 2006	110.60	110.96	110.63	110.52
October 2, 2006	110.53	110.91	110.59	110.47
February 1, 2007	110.40	110.76	110.43	110.32
June 1, 2007	110.37	110.74	110.41	110.29
September 1, 2007 ²	110.37	110.74	110.41	110.29
January 2, 2008	110.31	110.72	110.39	110.27
April 1, 2008	110.21	110.63	110.29	110.17
May 8, 2008 ²	110.33	110.69	110.37	110.25
July 1, 2008	110.13	110.50	110.19	110.06
October 1, 2008	110.01	110.41	110.10	109.97
January 2, 2009	109.84	110.25	109.94	109.82
April 1, 2009	109.79	110.20	109.90	109.77
July 2, 2009	109.71	110.12	109.82	109.69
October 8, 2009	109.68	110.10	109.79	109.67
January 4, 2010	109.63	110.04	109.74	109.61
April 1, 2010	109.59	110.00	109.70	109.58
July 1, 2010	109.56	109.97	109.68	109.55
October 4, 2010	109.50	109.91	109.62	109.49
December 20, 2010	109.51	109.92	109.63	109.50
January 3, 2011	109.49	109.90	109.61	109.47
April 1, 2011	109.46	109.87	109.58	109.45
July 1, 2011	109.45	109.86	109.58	109.44
October 1, 2011	109.44	109.86	109.57	109.44

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Notes:

1. Vertical Datum based on feet NGVD 1929.
2. WMI extended the rods of the settling plates.
3. Benchmarks used in March 30, 2000 survey were found to have settled; elevations shown for July 5, 2000 were tied into new benchmarks.

Settlement of Pump Station B Sump



SURVEYOR'S REPORT

Southeast Landfill Hillsborough County, Florida

Prepared for:



Prepared by:



PICKETT & ASSOCIATES PROJECT NO.: 12131
TITLE/TYPE OF SURVEY: SPECIFIC PURPOSE SURVEY
DATE OF SURVEY: 10/01/11
DATE OF THIS REPORT: 10/06/11

***NOTE: THIS REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL
RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.***

PROJECT DESCRIPTION

The quarterly Specific Purpose Survey was prepared to show the existing conditions of the ground pipes coming from the vault located at the Hillsborough County Southeast Landfill.

PIPE	NORTHING	EASTING	ELEVATION	DESCRIPTION
SW	1251010.3	596333.8	191.82'	Top of 4" pipe
			191.56'	Top of 1" pipe
SE	1251004.7	596339.5	191.86'	Top of 4" pipe
			191.75'	Top of 1" pipe
NE	1251014.2	596344.4	191.85'	Top of 4" pipe
			191.69'	Top of 1" pipe
NW	1251014.5	596336.5	191.34'	Top of 4" pipe
			191.54'	Top of 1" pipe

METHODOLOGY AND ACCURACY STATEMENT: The top of the 4" pipe located at the northwest corner of the vault was used as a benchmark and surveyed with RTK GPS. RTK points were observed at least twice with a new initialization between each observation and the RTK shots were taken at intervals greater than 5 minutes. This point has an estimated horizontal positional accuracy of 0.08' or less and a vertical positional accuracy of 0.10' or less.

DATUM:

HORIZONTAL: North and the Coordinates are based on the West Zone of the Florida State Plane Coordinate System, NAD 83 1990 adjustment and are based upon provided control referenced to Hillsborough County Horizontal Control Monument LW-H (PID AG8963) and BY-E (PID AG8747).

VERTICAL: Elevations are to National Geodetic Vertical Datum of 1929 and are based upon provided control referenced to Hillsborough County Horizontal Control Monument VR-B (PID AG9078), elevation is 103.08' from Hillsborough County's Vertical Control Network.

Sherry A. Grymko

Sherry A. Grymko, P.S.M.
Florida Registration No. 6648
Pickett & Associates, Inc.
Florida Registration No. 364

10/01/11

Survey Date