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Dept. Of Environmental Protection

APR 10 2013

Southwest District

MEMORANDUM

DATE: January 25, 2013

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

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

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

The Solid Waste Management Group staff has received and reviewed the field Survey Report from Pickett & Associates, Inc. (Pickett) dated January 7, 2013. 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 showed a slight change in elevation this quarter.

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

Attachments

TABLE I. 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 ¹	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 ¹	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	110.95	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 ¹	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
January 3, 2012	109.44	109.86	109.57	109.44
April 2, 2012	109.35	109.76	109.48	109.34
July 2, 2012	109.29	109.71	109.42	109.29
October 2, 2012	109.40	109.82	109.53	109.40
January 2, 2013	109.39	109.81	109.52	109.39

Indices: Final Clay Top (the original USM1) by 10

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

