

Morris, John R.

From: Adams, David <AdamsDS@HillsboroughCounty.ORG>
Sent: Thursday, April 21, 2016 2:41 PM
To: Morris, John R.
Cc: Byer, Kimberly; Greenwell, Jeffry; Ruiz, Larry; Townsel, Michael; Fuller, Josh; Pelley, Cindy
Subject: Required written notice to FDEP regarding TH-67
Attachments: TH-67 WQ summary.xlsx; IMG_2227.JPG; IMG_2228.JPG; IMG_2229.JPG

Dear Mr. Morris,

As we discussed on April 15, 2016 and yesterday April 20, 2016, the monitoring well TH-67 at the Southeast County Landfill is exhibiting water quality changes that are concerning. As shown on the attached spreadsheet, these changes include elevated values for conductivity, TDS, chloride and sodium, and the changes began to be seen in August 2015, but remained within applicable standards. The water quality observed in TH-67 within the results from the February semi-annual sampling event exhibited a sharp increase in concentrations and exceedances of standards for these parameters. Based on the February results, the County re-sampled TH-67 on April 5, 2016, to confirm the February results. The analytical results from the resampling exhibited higher values for conductivity, TDS, chloride, and sodium. On April 15, 2016, we returned to the site, set up on TH-67 to sample for conductivity only, and the value, which was recorded at 4463 uhmos/cm, appears to be increasing over time. While the well was being pumped and sampled, I walked up to the top and all around the landfill in the area of TH-67, and thoroughly searched a wide area for evidence of subsidence, stressed vegetation, or signs of leachate potentially seeping out of the side slope of the landfill. As shown on the attached photos, the entire area looked very well maintained and no indication of sub surface settlement, stressed vegetation, or seepage was observed. We also set up on an inactive monitoring well, TH-20B, which is approximately 400 feet southwest of TH-67. The conductivity recorded in TH-20B was 370 uhmos/cm. Since the wells closest to TH-67 are not showing any indication of impacts (TH-66 in February and TH-20B in April), the County believes that the impacts to TH-67 are limited in extent.

At this time, we do not definitively know the source of these water quality changes, but we continue to conduct an investigation to determine the source and develop our plan to address it. We are scheduling in a supplemental sampling event in May 2016, and we will sample TH-67, TH-66, TH-38B*, and TH-20B*, and the samples collected will be analyzed for the permit required parameters, as described in Appendix 3, Water Quality Monitoring Plan, Section II-3. We will keep you informed along the way, and, based on the results of the May 2016 sampling event, further discussions will likely be warranted.

Should you have any questions or require any additional information, please feel free to call me at (813) 663-3221.

Respectfully,

David S. Adams, P.G.
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TH-67

Date	Conductivity	TDS	Cl	Na	Static Water Level Elev (ft BTOC)	Drawdown (ft BTOC)
February-12	597	280	39	29	7.45	10.00
August-12	312	200	24	12	5.38	6.69
February-13	684	350	41	27	7.10	9.95
August-13	285	190	25	19	5.85	7.66
February-14	634	310	34	27	6.54	8.40
August-14	390	170	9.1	5.7	5.61	5.86
February-15	428	250	31	8.7	4.04	4.43
August-15	429	220	29	8.7	4.50	5.41
February-16	1780	1600	620	120	3.82	4.40
4/5/16	3932	2400	1100	440	5.05	5.21
4/15/16	4463	ND	ND	ND	5.63	ND





