

# Countywide Recycling and Disposal Facility

## Weekly Progress Report

06/19/09

This Weekly Progress Report is prepared by Countywide and submitted to the OEPA weekly by the close of business on each Friday. This meets the requirement of Order No. 5 of the December 31, 2007 Findings and Orders to provide updates on progress of field activities.

In addition, this report provides updated presentations of data being collected. All information presented in this report originates from the publicly-available data being gathered as part of the normal operational requirements of the facility or as part of the Director's Findings and Orders. **This report covers the period June 13, 2009 to June 19, 2009.**

### **PROGRESS ON FIELD ACTIVITIES TOWARD DECEMBER 31, 2007 ORDERS**

See the attached **Table 1**.

### **DATA PRESENTATION**

**Bold font in comments column means updated version included with this report.**

<u>Attachment</u>	<u>Attachment No.</u>	<u>Comments</u>
Wellhead Temperature Graph	1	<b>Updated June 19, 2009</b>
Downhole Temp. Graph	2	<b>Updated June 19, 2009</b>
FBMP Max. In-Situ Temp. Graph	3	<b>Updated June 19, 2009</b>
Leachate Sump Temperature. Graph	5	Updated June 12, 2009
LCS Temperature Graph	6	Updated June 12, 2009
Weekly Cumulative Sett. Graph	7	<b>Updated June 19, 2009</b>
Quarterly Cumulative Sett. Graph	8	Updated March 27, 2009
CO Graph	9	Updated June 5, 2009
Leachate Volume Graph	10	<b>Updated June 12, 2009</b>
Leachate COD Graph	11	Updated March 20, 2009
Leachate TDS Graph	12	Updated March 20, 2009
Odor (Nasal Ranger) Readings	13	Updated May 22, 2009

<u>Appendices (transmitted separately)</u>	<u>Appendix No.</u>	<u>Comments</u>
Wellhead Temperature Zone Map	A	<b>Updated June 19, 2009</b>
4-Week Cumulative Sett. Front Map	B	<b>Updated June 19, 2009</b>
Carbon Monoxide Zone Map	C	Updated May 29, 2009

### **AMBIENT AIR SAMPLING ACTIVITIES LOG**

See attached **Table 2**.

### **COMMENTARY ON DATA**

The wellhead (Attachment 1) and downhole (Attachment 2) temperatures continue to show some seasonal influence. Appendix A shows the distribution of wellhead temperatures which continue to increase slowly to the east and north; a fact that is supported by the FBMP graph (Attachment 3) since the FBMP monitors are also located in the north and west and seem to be generally increasing.

Throughout 2008, the weekly volume of settlement decreased. However, in 2009, the decrease has diminished and the weekly settlement volume has stabilized. This may be attributable to the reaction achieving a steady size and intensity. But, it is more likely (based on examination of other data) that the reaction continues to diminish and that much of the 2009 settlement is caused by the large amount of soil fill that was brought up to the "bowl" area causing further compression of the waste in that area.

TABLE 1

WEEKLY PROGRESS REPORT FOR DECEMBER 31, 2007 F&Os  
 COUNTYWIDE LANDFILL  
 WEEK ENDING 06-19-09

Work Item	Units of Measure	Estimated Required or Goal*	Previously Completed	Completed This Period	Total Completed to Date	Est. to be Completed Next Week	Comments
Install Vertical Relief Wells	ea.	4	4	0	4	0	RW-4 was abandoned due to a casing failure on April 8, 2009. RW-2 was abandoned due to casing failure on March 25, 2009. RW-3 was abandoned due to casing failure on June 10, 2009.
Install Perm. Dewatering Pumps and Infrastructure	ea.	44	44	0	44	0	
Install 4-inch HDPE Liquid Discharge Line	l.f.	3000	3000	0	3000	0	
Install 2-inch HDPE Air Supply Line	l.f.	10500	10500	0	10500	0	
Install and Test Compressors	ea.	3	3	0	3	0	
Relocate Flares from Top of Landfill	ea.	1	1	0	1	0	
Install New Gas Wells	ea.	37 (original goal was 10)	37	0	37	0	
Replace Compromised Wells	ea.	23 (original goal was 12)	23	0	23	0	
Install Perm. Dewatering Pumps in New and Replacement Gas Wells	ea.	20	18	0	18	0	
Install 4-inch HDPE Liquid Discharge Line for new gas wells	l.f.	2000	2500	0	2500	0	
Install 2-inch HDPE Air Supply Line for new gas wells	l.f.	2000	2500	0	2500	0	
Measure Achievable Drawdown	ea.	73	73	0	73	0	
Establish Baseline Flow	ea.	1	0	0	0	0	

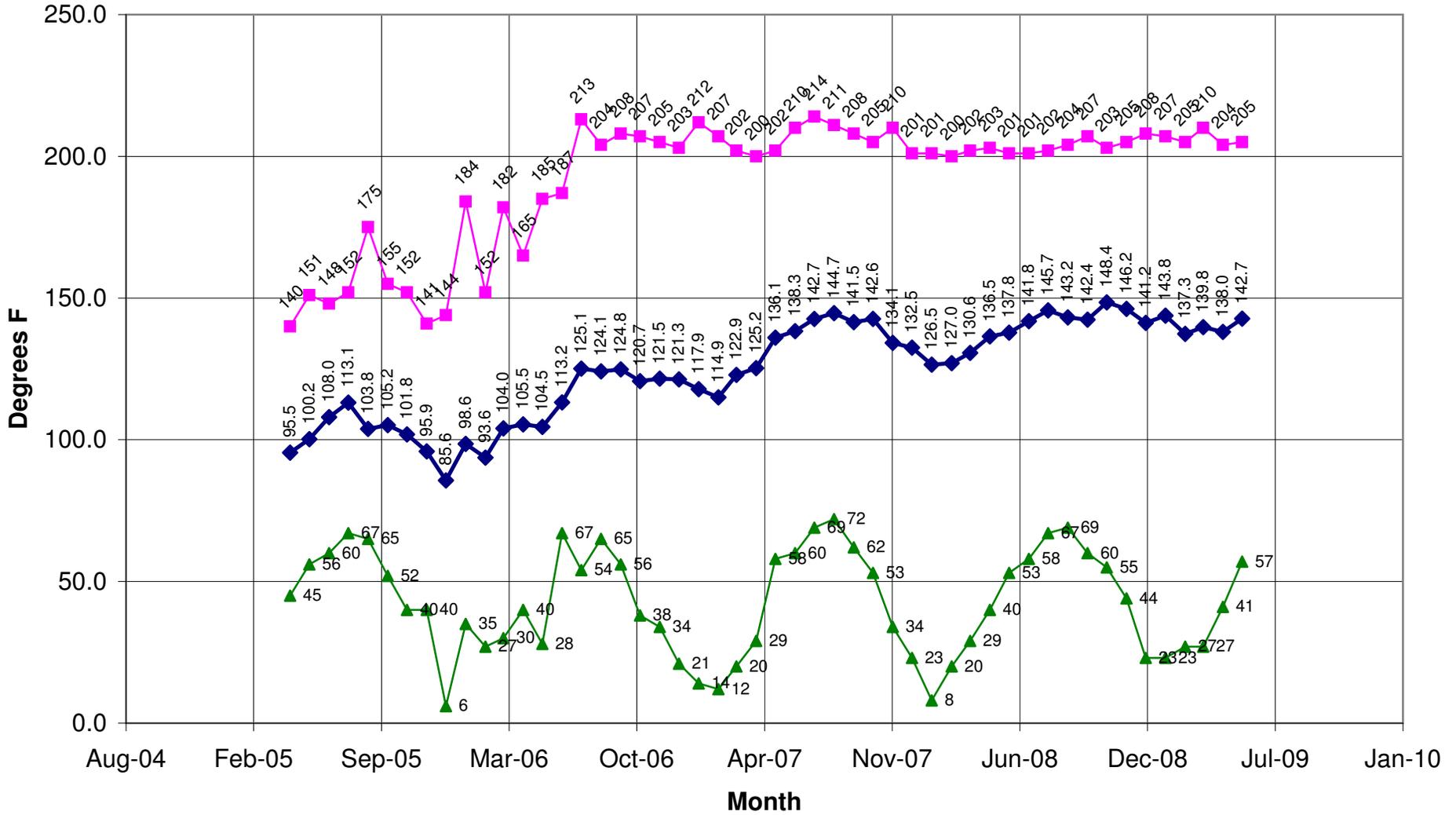
\* The estimate of "required" or "goal" items may change as project progresses.

Note: This table presents one-time field activities and does not address recurring activities such as liquid level measurements, downhole temperature profiles, liquid sampling, etc.

**Table 2**  
**Log of Field Activities and Conditions**  
**Per Order No. 2.B of Feb. 7, 2008 Orders**

Date	Approx. Time	Contractor	Location	Field Activity or Potentially Odor-Causing Incident.
6/7/09	NA	NA	NA	No activity monitored
6/8/09	7:00-17:00	AEG	88 Acres	Horizontal collector 4 open for repair, Pump maintenance, Construction
6/9/09	7:00-17:00	AEG	88 Acres	Pump maintenance, Tedlar bag samples, C/O West Side hard piped
6/10/09	7:00-17:00	AEG	88 Acres	Tedlar bag samples, Replacing Qed's W. Slope, Sump near CD
6/11/09	7:00-17:00	AEG	88 Acres	Tedlar bag samples, Replacing Qed's Pump maintenance
6/12/09	7:00-17:00	AEG	88 Acres	Pump Maintenance, Flame Arrestors, Downholes, Work on tie in at 5CD
6/13/09		AEG	88 Acres	No activity monitored

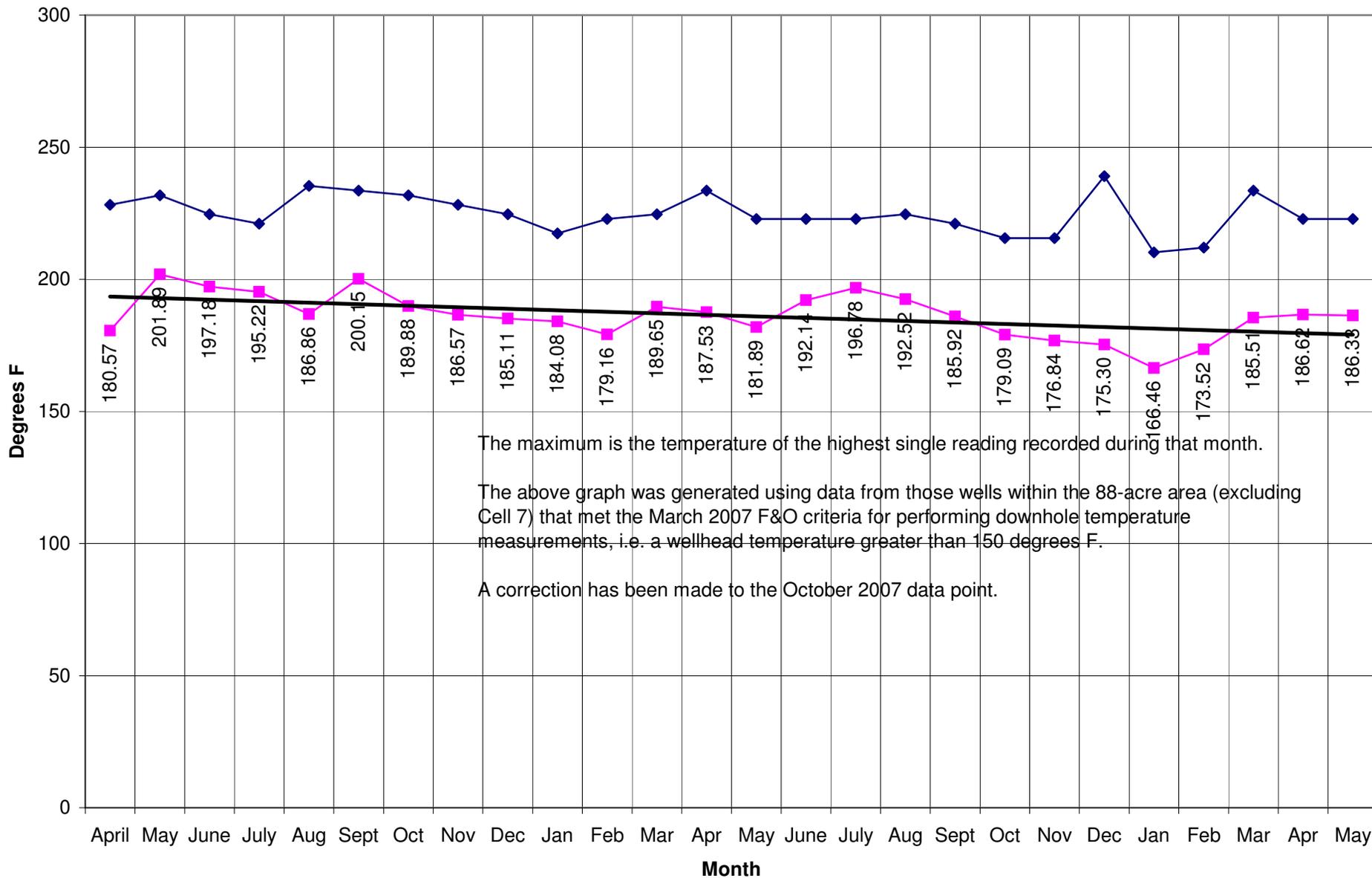
# Initial Wellhead Temperatures in the 88-acre Area



All Cell 7 wells excluded except PW-315.  
Anomalous readings from PW-147 excluded for June 2008.

◆ Monthly Average    ■ Monthly Maximum    ▲ Monthly Minimum

## Downhole Temperatures Monthly Maximums and Averages



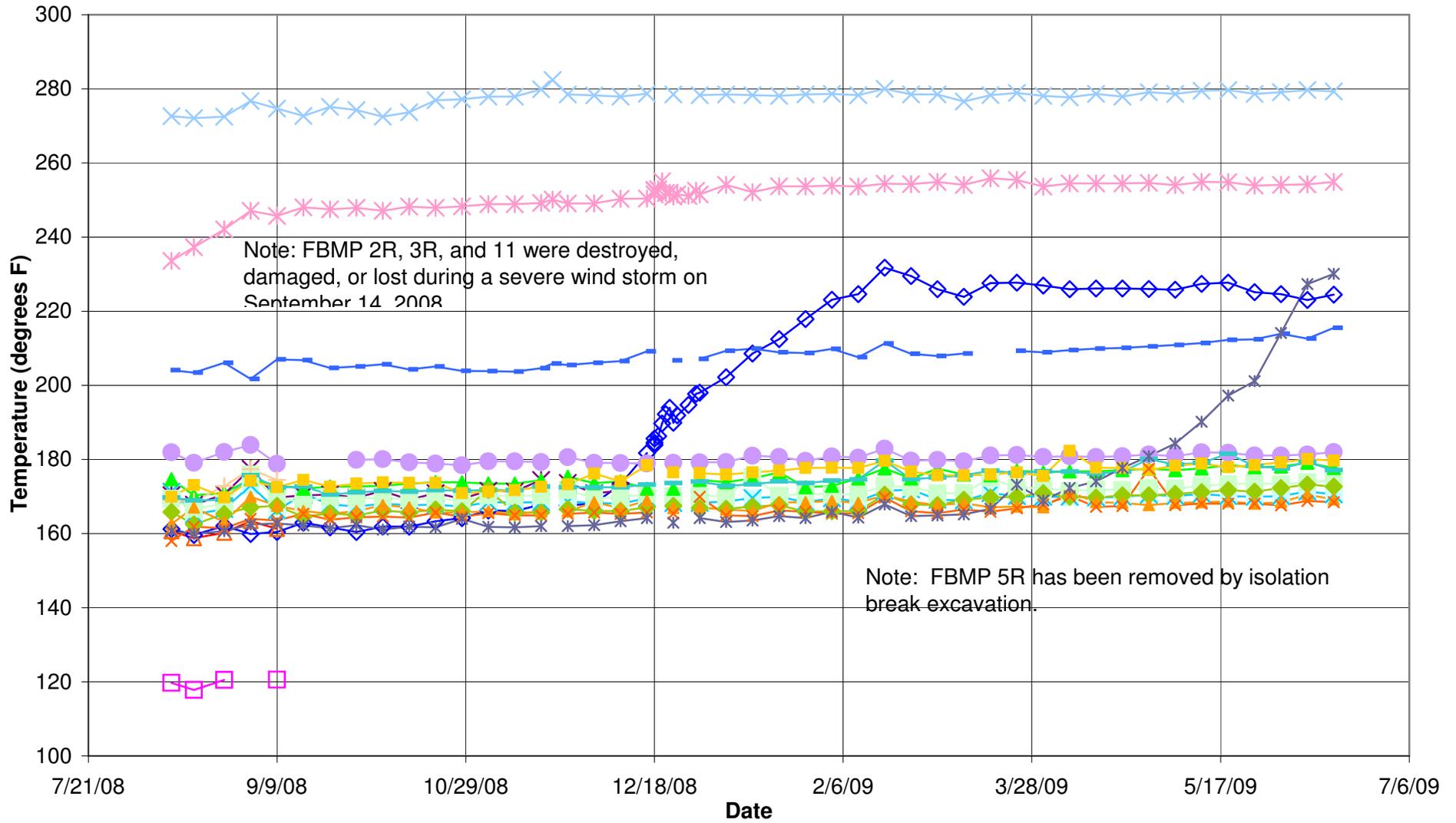
The maximum is the temperature of the highest single reading recorded during that month.

The above graph was generated using data from those wells within the 88-acre area (excluding Cell 7) that met the March 2007 F&O criteria for performing downhole temperature measurements, i.e. a wellhead temperature greater than 150 degrees F.

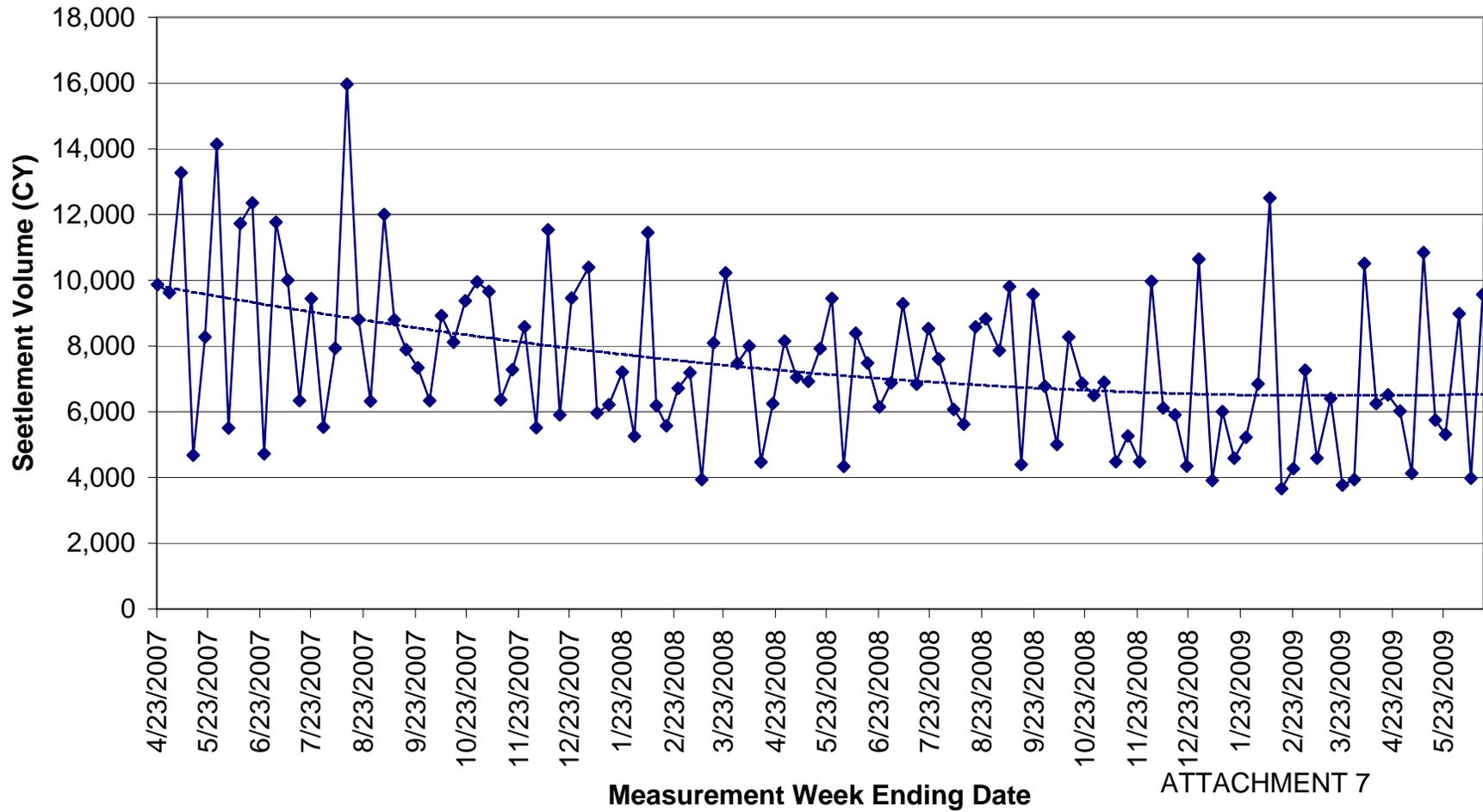
A correction has been made to the October 2007 data point.

# In-situ Temperatures Maximum Readings per Date per FBMP Boring

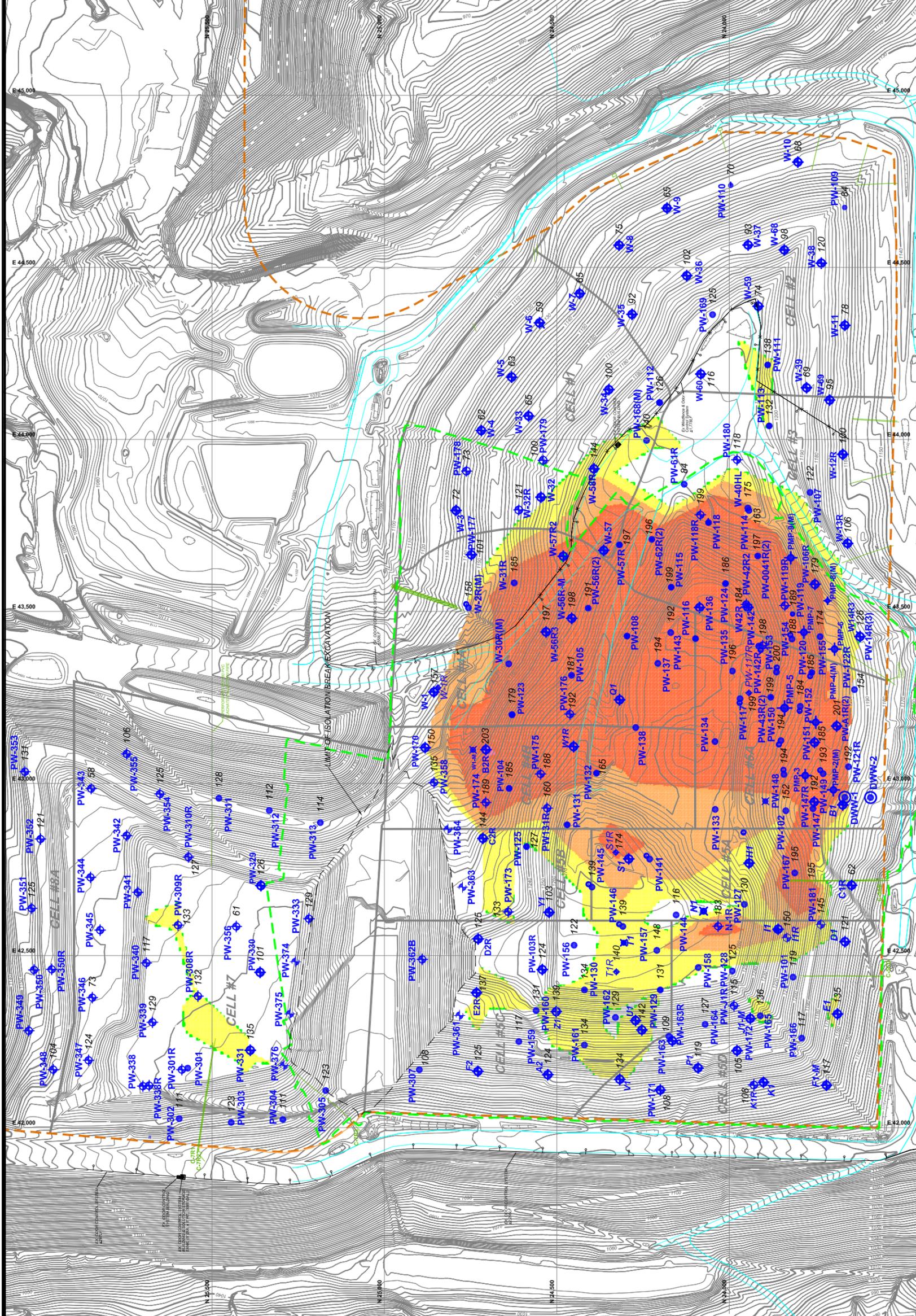
## ATTACHMENT 3



# Weekly Settlement Survey in "Reaction Area" Countywide Landfill



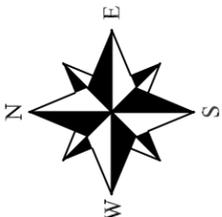
ATTACHMENT 7



**WELL TEMPERATURE COLOR LEGEND**

Temp Zone(°F)

- Greater Than 131 (9.32 Acres)
- Greater Than 150 (7.75 Acres)
- Greater Than 170 (18.70 Acres)
- Greater Than 200 (0.02 Acres)



**COUNTYWIDE RDF**

PROJECT: GAS CONTROL COLLECTION SYSTEM

SHEET TITLE: INITIAL WELL TEMPERATURES MAY 2009

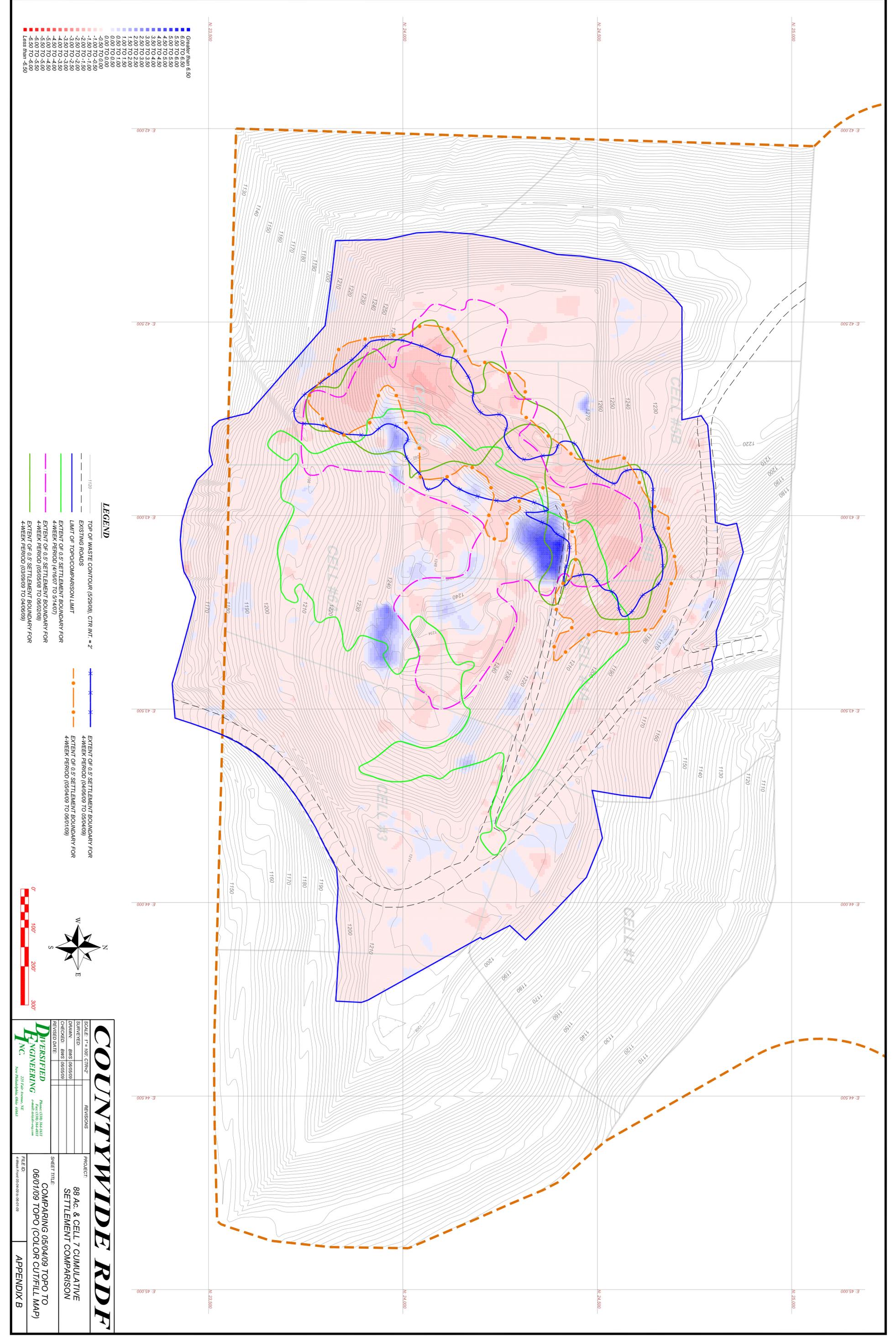
REVISIONS:

NO.	DATE	DESCRIPTION
1	6/17/09	ISSUED FOR PERMITTING
2	6/17/09	ISSUED FOR CONSTRUCTION

FILE ID: WWT Temperature Map May 2009.dwg

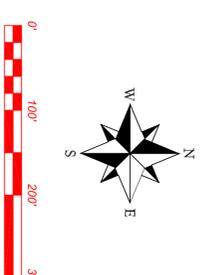
**DIVERSIFIED ENGINEERING INC.**  
 225 Fair Avenue, NE  
 Norcross, Georgia, USA 30071  
 Phone: (770) 544-1651  
 Fax: (770) 544-4811  
 e-mail: info@diversifiedeng.com





- Greater than 6.50
- 6.00 TO 6.50
- 5.50 TO 6.00
- 5.00 TO 5.50
- 4.50 TO 5.00
- 4.00 TO 4.50
- 3.50 TO 4.00
- 3.00 TO 3.50
- 2.50 TO 3.00
- 2.00 TO 2.50
- 1.50 TO 2.00
- 1.00 TO 1.50
- 0.50 TO 1.00
- 0.00 TO 0.50
- 0.50 TO 0.00
- 1.00 TO -0.50
- 1.50 TO -1.00
- 2.00 TO -1.50
- 2.50 TO -2.00
- 3.00 TO -2.50
- 3.50 TO -3.00
- 4.00 TO -3.50
- 4.50 TO -4.00
- 5.00 TO -4.50
- 5.50 TO -5.00
- 6.00 TO -5.50
- 6.50 TO -6.00
- Less than -6.50

- LEGEND**
- 1150 TOP OF WASTE CONTOUR (02/29/09), CTR INT. = 2'
  - EXISTING ROADS
  - LIMIT OF TOPO/COMPARISON LIMIT
  - EXTENT OF 0.5 SETTLEMENT BOUNDARY FOR 4 WEEK PERIOD (4/16/07 TO 5/14/07)
  - EXTENT OF 0.5 SETTLEMENT BOUNDARY FOR 4 WEEK PERIOD (05/05/08 TO 06/02/08)
  - EXTENT OF 0.5 SETTLEMENT BOUNDARY FOR 4 WEEK PERIOD (03/09/09 TO 04/05/09)
  - EXTENT OF 0.5 SETTLEMENT BOUNDARY FOR 4 WEEK PERIOD (04/05/09 TO 05/04/09)
  - EXTENT OF 0.5 SETTLEMENT BOUNDARY FOR 4 WEEK PERIOD (05/04/09 TO 06/01/09)



<h1 style="text-align: center;">COUNTYWIDE RDF</h1>		SCALE: 1" = 100' CTR#2
		DATE: 06/01/09
		DRAWN: BMS (06/05/09)
		CHECKED: BMS (06/05/09)
<p><b>DIVERSIFIED ENGINEERING INC.</b>          233 Fair Avenue, NE          New Philadelphia, Ohio 44663          Phone: (330) 344-4431          Email: info@diversifiedeng.com</p>		<p>PROJECT:  <b>88 AC. &amp; CELL 7 CUMULATIVE SETTLEMENT COMPARISON</b></p>
<p>SHEET TITLE:  <b>COMPARING 05/04/09 TOPO TO 06/01/09 TOPO (COLOR CUT/FILL MAP)</b></p>		<p>APPENDIX B</p>