

Report of Progress, November 28, 2008

Pursuant to Administrative Settlement Agreement and Order on Consent for Removal Action

Docket No. V-W-08-C-897

Countywide Recycling and Disposal Facility
East Sparta, Stark County, Ohio
Respondent: Republic Services of Ohio II, LLC (Republic)

Paragraph 15.a and b Enhanced Gas Extraction and Temperature Monitoring [NOTE: THIS WORK ITEM IS SUPERSEDED BY AN ISOLATION BREAK EXCAVATION].

On November 19, 2008, the U.S. EPA approved an Isolation Break Excavation Work Plan which was submitted by Countywide on November 14, 2008. The Isolation Break Excavation will supersede the previous requirement for enhanced gas extraction.

As of November 26, 2008, preparation activities for construction of the Isolation break Excavation included: installation of six (6) perimeter gas extraction wells for odor and emission control as shown in Attachment A-1, fabrication of another odor control trailer, and installation of some litter control components. Excavation activities are scheduled to begin in early December 2008 and be completed in late Spring 2009.

Temperature monitoring (on all but four monitoring locations) will be continued throughout the construction of the Isolation Break Excavation. Throughout November, readings were obtained from the FBMP temperature probes. Results are presented in Attachment A-2. No significant increasing or decreasing temperature trends are apparent with the possible exception of FBMP-1R, -5R and -8 which appear to have increased by a three to five degrees F. in November.

Paragraph 15.c and f Capping and Stabilization.

A map depicting the current status of capping is included in Attachment B. During November, construction continued on surface water and leachate management features associated with the temporary cap but the temporary cap is complete.

In early December, the "Operations and Maintenance Plan for Temporary Cap System" will be submitted and soon thereafter a joint Countywide-U.S. EPA-Ohio EPA walkover inspection will be conducted to determine what other areas may need augmentation. Capping augmentation (current plans indicated with yellow shading in Attachment B) will be started in December 2008.

Composite capping is still on hold until USEPA, OEPA, and Countywide resolve details for a composite cap cross section.

Paragraph 15.e Air Monitoring and Sampling.

Stage B – Interim Fixed Continuous Monitoring. This monitoring was performed concurrent with Stage C monitoring until November 10, 2008 and then discontinued because the Stage C monitoring had been performing reliably for several weeks. No results will be presented for the Stage B monitoring in November as full continuous monitoring coverage was provided by the Stage C monitoring (see discussion below).

Stage C – Final Fixed Continuous Monitoring. On November 4, 2008, Countywide and U.S. EPA agreed on “trigger” values to be implemented for automatic collection of SUMMA canisters at the Stage C monitoring stations. By November 7, the automatic collection system was fully-functioning. Since then, 7 SUMMA canisters have been collected by the automated system.

A summary of results from the five stations is included in Attachment C.

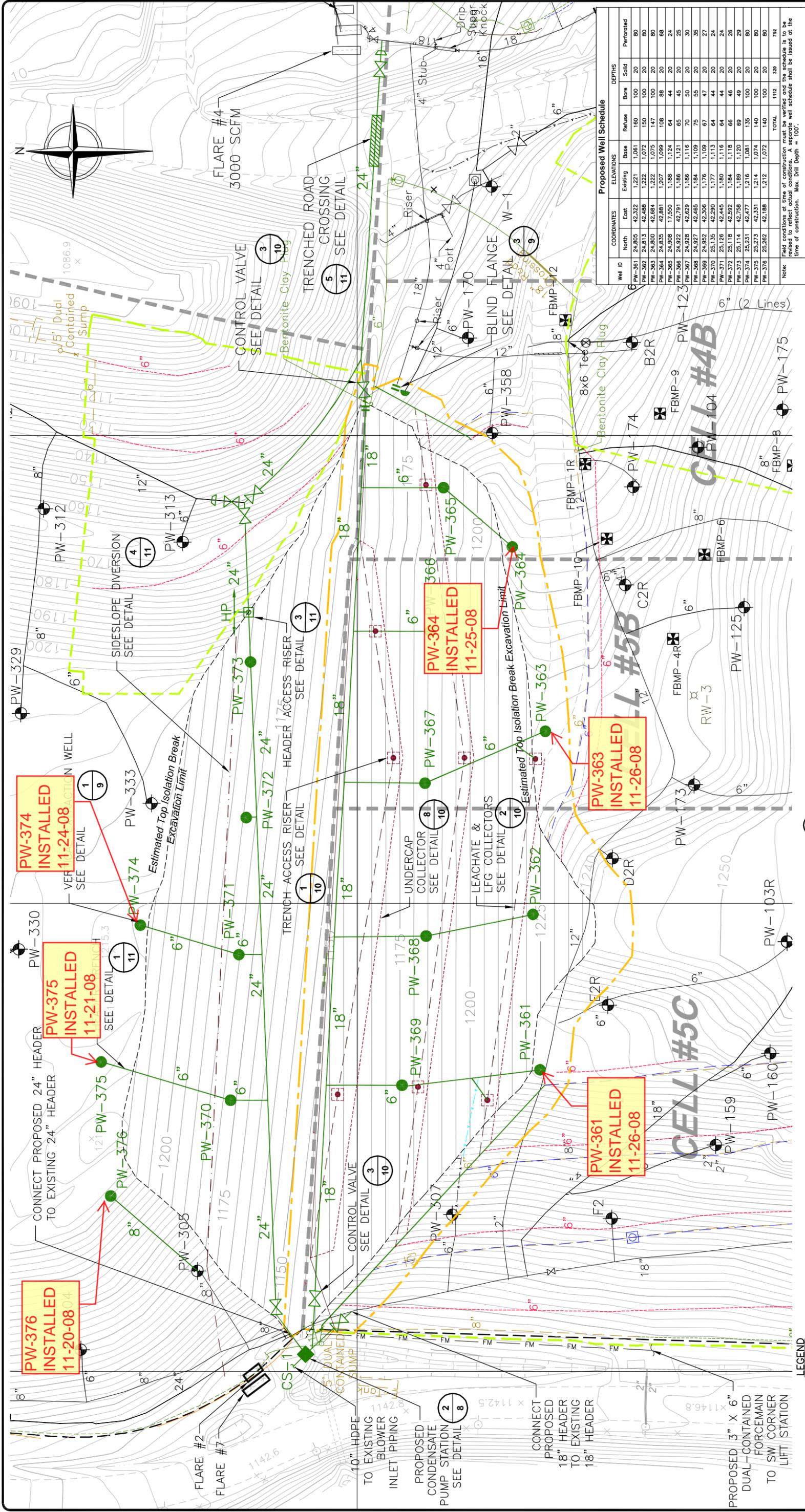
Paragraph 15.g Aerial Infrared Imaging.

October 2008 and November 2008 aerial infrared images are provided in Attachment D along with a diagram to outline the approximate coverage of the images. Both images were taken in the pre-dawn hours. The ambient air temperature during the October image was 43° F and during the November image was 22° F. Comparison of these images generally shows the same subcap warm areas attributed to subcap leachate outbreaks and transmittal of gas through subcap cracking. Most changes appear to reflect correlation to the ambient air temperatures, with no large aerial changes or trends.

A local area (indicated on the November image in Attachment D) did increase notably. This area is known to be a zone of a pressurized subcap leachate outbreak. This is in the general vicinity of FBMP-8 which has increased in temperature recently as well. These data may suggest increased reaction activity in the vicinity. However, the proposed Isolation Break Excavation is about 300 feet north and northwest of the outbreak and FBMP-8, so no impact is anticipated for the excavation project.

ATTACHMENT A-1

ISOLATION BREAK EXCAVATION PROGRESS



ANNOTATIONS IN RED FONT PRESENT ISOLATION BREAK PREPARATION ACTIVITIES COMPLETED AS OF 11-26-08

1. MAINTAIN 5% MIN. SLOPE ON ALL HEADERS.
2. PROPOSED GAS WELL WILL BE INSTALLED BEFORE AND DURING EXCAVATION AND WILL BE USED FOR ODOR CONTROL UTILIZING TEMPORARY LATERALS, HEADERS, AND REMOTE WELLHEADS AS NECESSARY.

| Well ID | COORDINATES | | ELEVATIONS | | DEPTHS | |
|---------|-------------|--------|------------|-------|--------|------------|
| | North | East | Existing | Base | Refuse | Bore Solid |
| PW-361 | 24,805 | 42,322 | 1,221 | 1,061 | 160 | 100 |
| PW-362 | 24,813 | 42,468 | 1,222 | 1,072 | 150 | 100 |
| PW-363 | 24,800 | 42,884 | 1,227 | 1,075 | 147 | 100 |
| PW-364 | 24,835 | 42,881 | 1,207 | 1,099 | 108 | 88 |
| PW-365 | 24,908 | 42,550 | 1,188 | 1,124 | 64 | 44 |
| PW-366 | 24,922 | 42,791 | 1,186 | 1,121 | 65 | 44 |
| PW-367 | 24,928 | 42,629 | 1,186 | 1,116 | 70 | 50 |
| PW-368 | 24,927 | 42,465 | 1,184 | 1,109 | 75 | 55 |
| PW-369 | 24,952 | 42,306 | 1,176 | 1,109 | 67 | 47 |
| PW-370 | 25,135 | 42,290 | 1,177 | 1,113 | 64 | 44 |
| PW-371 | 25,126 | 42,445 | 1,180 | 1,118 | 66 | 46 |
| PW-372 | 25,114 | 42,592 | 1,184 | 1,118 | 66 | 46 |
| PW-373 | 25,114 | 42,758 | 1,189 | 1,120 | 69 | 49 |
| PW-374 | 25,231 | 42,477 | 1,218 | 1,081 | 135 | 100 |
| PW-375 | 25,233 | 42,331 | 1,214 | 1,074 | 140 | 100 |
| PW-376 | 25,262 | 42,188 | 1,212 | 1,072 | 140 | 100 |
| TOTAL | | | | | 1112 | 338 |

- LEGEND**
- EXISTING SOLID WASTE BOUNDARY
 - EXISTING CELL BOUNDARY
 - EXISTING TEMPORARY FML CAP LIMIT
 - PROPOSED NEW TEMPORARY FML CAP LIMIT (APPROXIMATE)
 - 2' CONTOUR - EXISTING GROUND
 - EXISTING HEADERS/LATERALS
 - EXISTING AREA N LEACHATE (ABOVE GROUND)
 - EXISTING AREA N LEACHATE HORIZONTAL COLLECTOR (IN COMMON TRENCH BELOW LFG COLLECTOR)
 - EXISTING AREA N LFG HORIZONTAL COLLECTOR (IN TRENCH ABOVE LEACHATE COLLECTOR)
 - EXISTING AREA N UNDERCAP COLLECTOR (AT GROUND SURFACE)
 - PROPOSED LFG & LEACHATE COLLECTOR TRENCH SEE DETAIL
 - PROPOSED UNDERCAP COLLECTOR SEE DETAIL
 - PROPOSED HEADERS/LATERALS SEE DETAIL
 - EXISTING GAS WELL
 - PROPOSED GAS WELL
 - PROPOSED RISER
 - EXISTING FIREBREAK MONITORING POINT
 - EXISTING RISER
 - EXISTING REDUCER
 - PROPOSED REDUCER
 - EXISTING VALVE
 - PROPOSED VALVE
 - PROPOSED ROAD CROSSING

DRAFT

REPUBLIC SERVICES OF OHIO II, LLC
COUNTY-WIDE RECYCLING AND DISPOSAL FACILITY
EAST SPARTA, STARK COUNTY, OHIO

CORNERSTONE
Environmental Group, LLC

| REV | DATE | DESCRIPTION | DRAWN BY | TSS | CHECKED BY | DATE OF ISSUE |
|-----|------|-------------|----------|-----|------------|---------------|
| | | | | | | 10/30/08 |

FIGURE NO. **7**
PROJECT NO. 070197

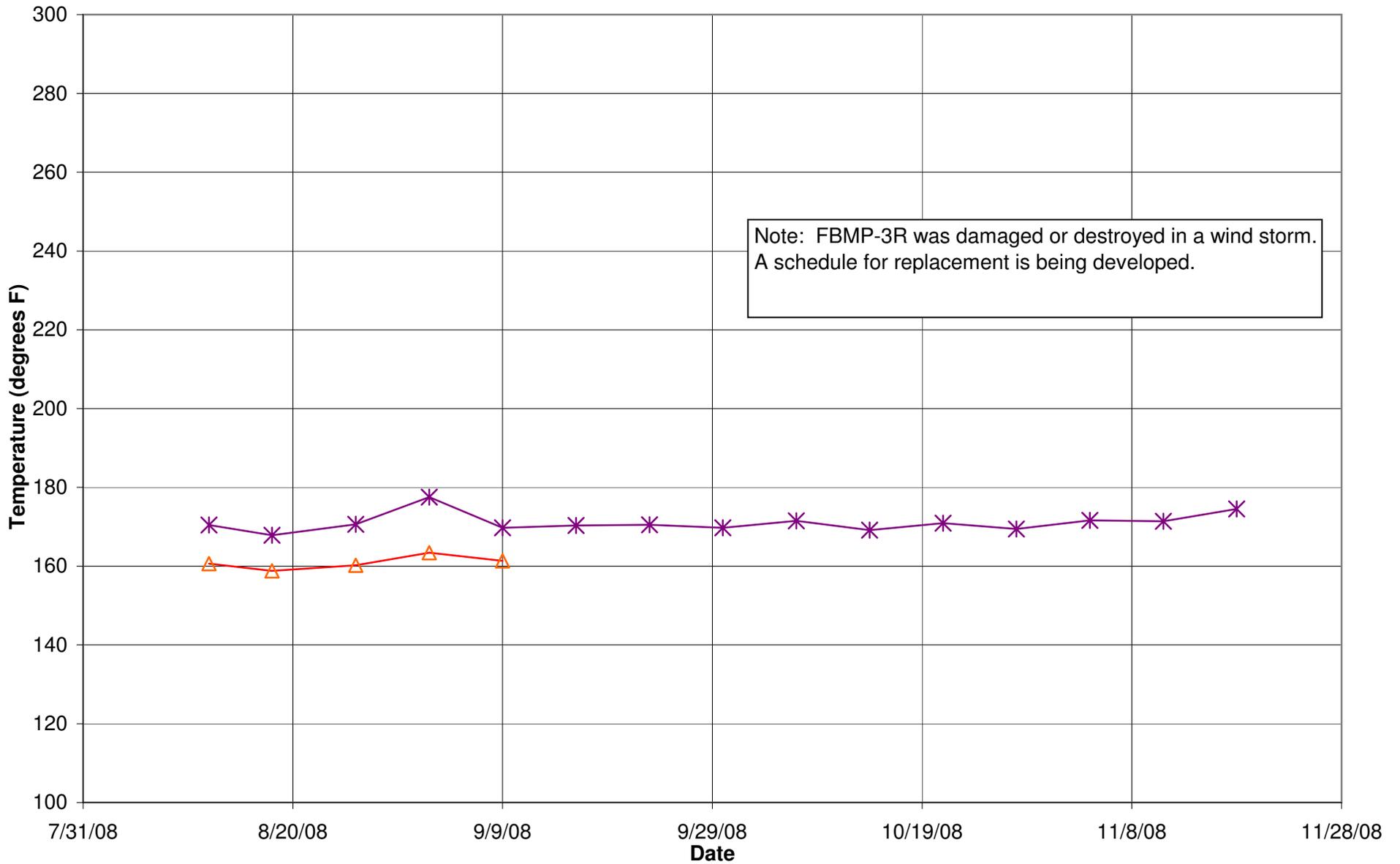
GAS, LEACHATE AND COVER SYSTEM RECONFIGURATION

SCALE IN FEET
0 50 100

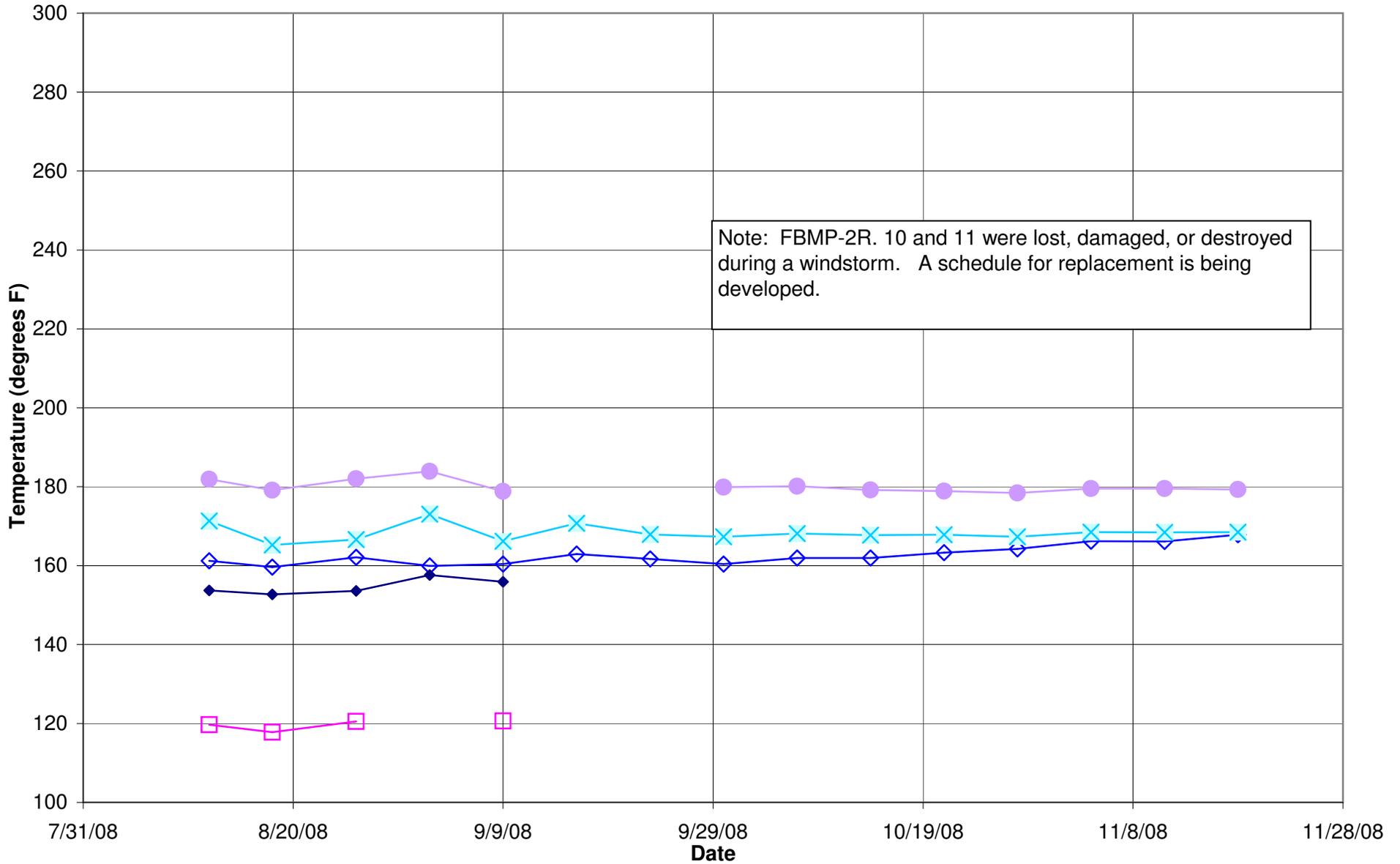
ATTACHMENT A-2

FBMP TEMPERATURE PROBE GRAPHS

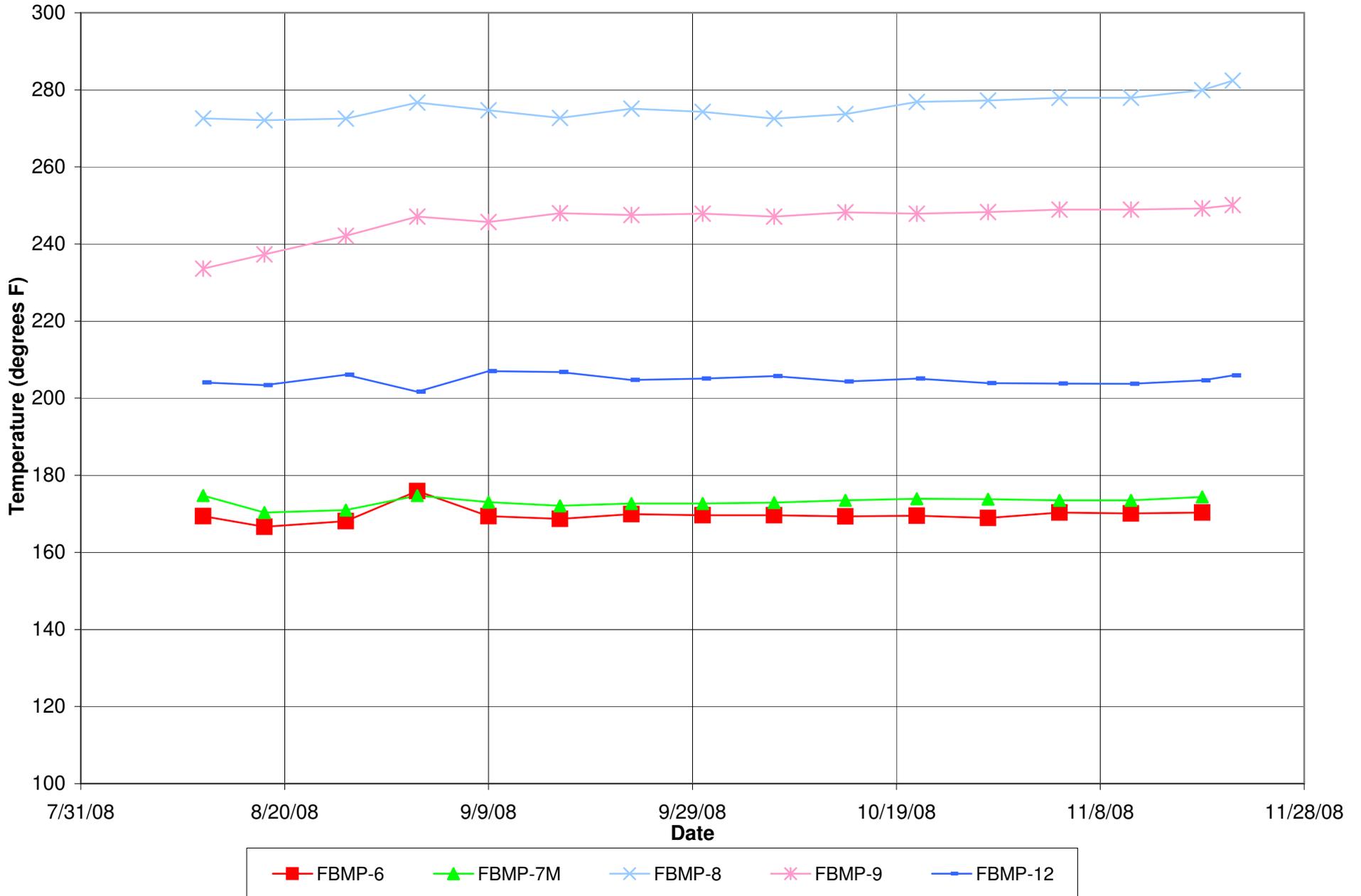
In-situ Temperatures - FBMPs within the Isolation Break Excavation Maximum Readings per Date per FBMP Boring



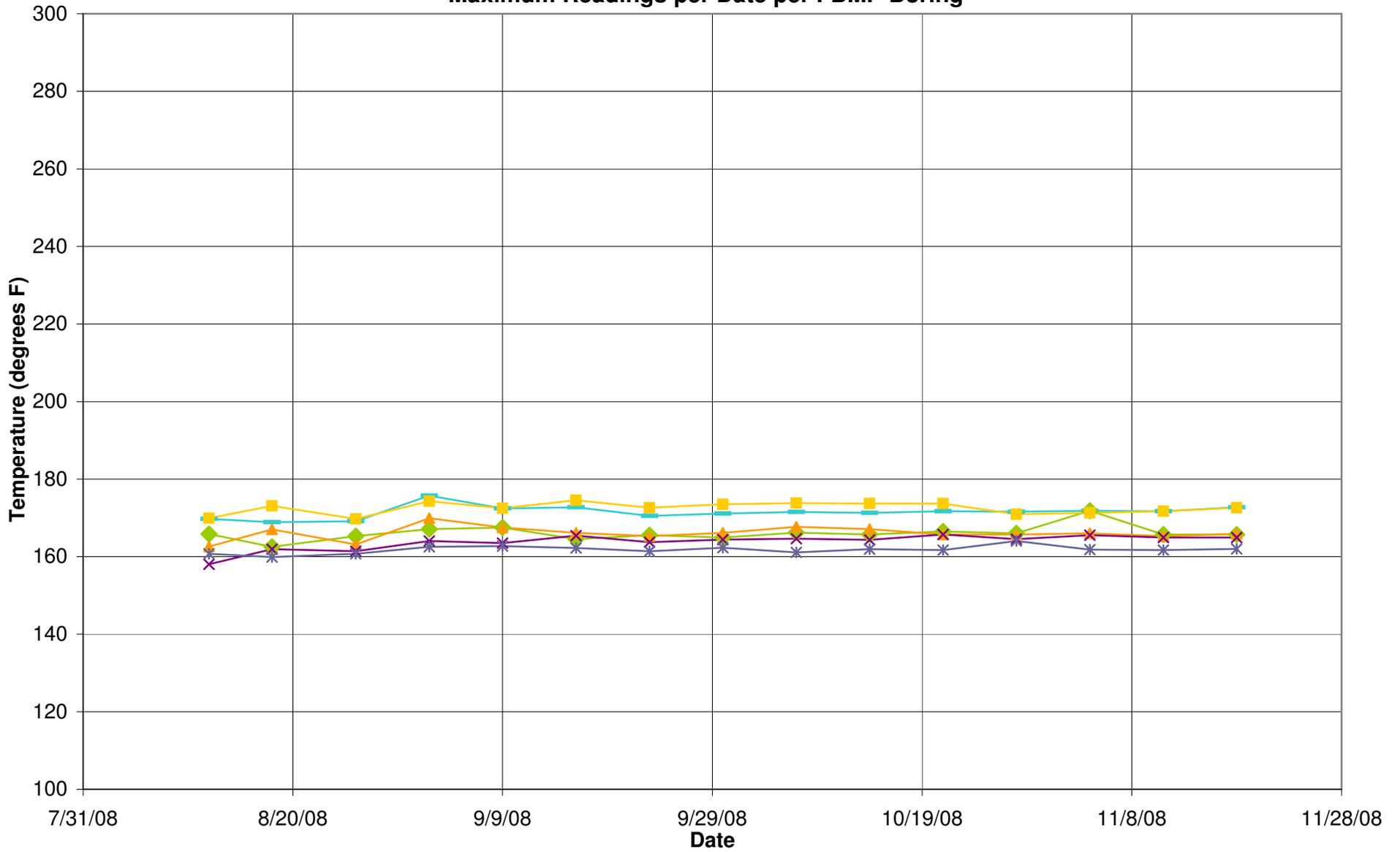
In-situ Temperatures - FBMPs within 150 ft of the Isolation Break Excavation Maximum Readings per Date per FBMP Boring



In-situ Temperatures - FBMPs beyond 150 ft from Isolation Break Excavation Maximum Readings per Date per FBMP Boring



In-situ Temperatures - West Slope FBMPs Maximum Readings per Date per FBMP Boring



ATTACHMENT B

CAPPING AND STABILIZATION PROGRESS



LEGEND

- PROPERTY LINE
- LIMIT OF SOLID WASTE
- CELL BOUNDARY
- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- CAP AREA BOUNDARY
- EXISTING PARKING
- EXISTING GRAVEL ROAD
- PROPOSED AREA TO RECEIVE COMPOSITE COVER
- EXISTING TEMPORARY FML CAP
- PROPOSED TEMPORARY EXPOSED FML CAP
- AREA TO BE PREPARED FOR CONSTRUCTION OF TEMPORARY FML CAP
- EXISTING TEMPORARY FML CAP TO BE AUGMENTED

NOTES:

1. EXISTING CONTOURS WERE COMPILED FROM DIVERSIFIED ENGINEERING, INC. TOPOGRAPHICAL SURVEY DATED 12/05/07 AND 04/28/08.
2. AREAS SHOWN ARE APPROXIMATE.
3. THE EXISTING TEMPORARY CAP WILL BE MAINTAINED.
4. LOCATION OF NORTHWEST CAP LIMIT WAS OBTAINED FROM FIGURE 3 (GAS WELL AND TEMPERATURE MONITORING LOCATION MAP DATED 04/28/08) PROVIDED IN THE GAS EXTRACTION AND MONITORING WORK PLAN DATED MAY 27, 2008.

11 Acres Placed in September 2008

5.5 Acres Placed in September 2008

3.5 Acres Placed in September 2008

3.25 Acres Completed in October 2008

8.5 Acres FML Placed in August 2008

7 Acres FML Placed in August 2008

This 0.25 acre area will be added to the area to be augmented (adjacent yellow-shaded area)

ANNOTATIONS IN RED FONT PRESENT CAPPING CONSTRUCTION ACTIVITIES FOR COMPLETED AS OF NOVEMBER 2008. NEW TEMPORARY FML CAP IS COMPLETE.

1" = 1/2" = 0' 1/2" 0' 1/4" 0' 1/8" 0' 1/16" 0' 1/32" 0' 1/64" 0' 1/128" 0' 1/256" 0' 1/512" 0' 1/1024" 0' 1/2048" 0' 1/4096" 0' 1/8192" 0' 1/16384" 0' 1/32768" 0' 1/65536" 0' 1/131072" 0' 1/262144" 0' 1/524288" 0' 1/1048576" 0' 1/2097152" 0' 1/4194304" 0' 1/8388608" 0' 1/16777216" 0' 1/33554432" 0' 1/67108864" 0' 1/134217728" 0' 1/268435456" 0' 1/536870912" 0' 1/1073741824" 0' 1/2147483648" 0' 1/4294967296" 0' 1/8589934592" 0' 1/17179869184" 0' 1/34359738368" 0' 1/68719476736" 0' 1/137438953472" 0' 1/274877906944" 0' 1/549755813888" 0' 1/1099511627776" 0' 1/2199023255552" 0' 1/4398046511104" 0' 1/8796093022208" 0' 1/17592186044416" 0' 1/35184372088832" 0' 1/70368744177664" 0' 1/140737488355328" 0' 1/281474976710656" 0' 1/562949953421312" 0' 1/1125899906842624" 0' 1/2251799813685248" 0' 1/4503599627370496" 0' 1/9007199254740992" 0' 1/18014398509481984" 0' 1/36028797018963968" 0' 1/72057594037927936" 0' 1/144115188075855872" 0' 1/288230376151711744" 0' 1/576460752303423488" 0' 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ATTACHMENT C

AIR MONITORING OF REMEDIAL CONSTRUCTION ACTIVITIES

The Stage C ambient air monitoring program has continuously collected real-time Volatile Organic Compounds (VOC) and weather data 24 hours per day since October 2, 2008. Over 300,000 VOC readings have been collected at the perimeter of the landfill during this monitoring period.

Trigger Levels

On November 4, 2008, the Center for Toxicology and Environmental Health (CTEH®), United States Environmental Protection Agency (USEPA) and Agency for Toxic Substances and Disease Registry (ATSDR) developed trigger levels for the collection of SUMMA canister laboratory samples. The trigger levels were derived by performing statistical analysis of the stage C data collected from the previous 4 weeks. The 99.5 percentile VOC concentration specific for each station was chosen as the trigger level for that station. Table 1.0 illustrates the trigger levels for each station.

**Table 1.0
November 4, 2008 Selected Trigger Levels**

| Station | Trigger Level (ppm) |
|---------|---------------------|
| 1 | 0.50 |
| 2 | 0.18 |
| 3 | 0.13 |
| 4 | 0.16 |
| 5 | 0.17 |

If a trigger level is exceeded for a five minute consecutive monitoring period, a 15 minute integrated SUMMA canister is automatically collected. Trigger levels will be continue to be re evaluated monthly or as needed based on VOC concentrations collected at each station. November 2008 data are currently being reviewed for possible modification to the trigger levels.

Real-Time Results

During the November monitoring period, approximately 167,615 real-time VOC readings have been collected at the perimeter of the landfill. Of these readings, the sustained VOC concentration exceeded the established trigger levels seven times. The mean VOC concentrations collected at the perimeter of the landfill ranged from 0.03 ppm to 0.07 ppm. Table 2.0 Summarizes the Real-time data collected from November 1, 2008 through November 23, 2008.

Table 2.0 November 1-23 Real Time Data Summary

| Station | Analyte | Total VOC Readings Recorded | Trigger Level | Triggering events | Mean Concentration |
|---------|---------|-----------------------------|---------------|-------------------|--------------------|
| 1 | VOC | 32,695 | 0.50 | 3 | 0.06 ppm |
| 2 | VOC | 34,911 | 0.18 | 2 | 0.07 ppm |
| 3 | VOC | 30,611 | 0.13 | 0 | 0.03 ppm |
| 4 | VOC | 34,814 | 0.16 | 2 | 0.05 ppm |
| 5 | VOC | 34,584 | 0.17 | 0 | 0.05 ppm |

Summa Results

A total of seven SUMMA samples have been collected since November 8, 2008. Of these 7 samples, station-specific weather data indicate that only 2 of the samples were downwind of the reaction area when the samples were collected. (Attachment A). SUMMA samples were analyzed for VOCs using GC/MS by EPA TO-15 plus TICs. Of the two samples collected downwind, no VOCs, including benzene, were detected at levels that exceeded the ATSDR's acute or chronic Minimal Risk Levels (MRLs). All samples indicated VOC levels that are consistent with background levels of VOCs in suburban environments or that are typical of air in analytical laboratories. These data to date indicate that landfill emissions from the site under current conditions do not pose a risk to human health in the short or long term.

November 2008
Stage C Integrated Air Sampling Summary

| Sample ID | Set out Date | Sample Location | Trigger Level | Trigger Date/Time | Wind Direction Station | Downwind of Reaction Area | Results | Comments |
|------------------|--------------|-----------------|--|-------------------|------------------------|---------------------------|----------------------------------|----------|
| ESOH1108-1-SC001 | 11/8/2008 | Station 1 | 0.50 ppm | 11/12/2008 22:52 | 134 | NO | ESOH1108-1-SC001 | |
| ESOH1108-2-SC002 | 11/8/2008 | Station 2 | 0.18 ppm | 11/10/2008 4:38 | 266 | YES | ESOH1101-2-SC002 | |
| ESOH1108-3-SC003 | 11/8/2008 | Station 3 | Sample Fault-Calibration gas triggered the Summa collection system | | | | | |
| ESOH1108-5-SC004 | 11/8/2008 | Station 5 | 0.17 ppm | Current Sample | | | | |
| ESOH1110-2-SC005 | 11/10/2008 | Station 2 | 0.18 ppm | 11/10/2008 20:15 | 338 | YES | ESOH1110-2-SC005 | |
| ESOH1111-2-SC006 | 11/11/2008 | Station 2 | 0.18 ppm | Current Sample | | | | |
| ESOH1111-4-SC007 | 11/11/2008 | Station 4 | 0.16 ppm | 11/23/2008 14:06 | 227 | NO | Pending | |
| ESOH1113-1-SC008 | 11/13/2008 | Station 1 | 0.50 ppm | 11/13/2008 21:02 | 181 | NO | ESOH1113-1-SC008 | |
| ESOH1114-1-SC009 | 11/11/2008 | Station 1 | 0.50 ppm | 11/24/2008 15:13 | 179 | NO | Pending | |
| ESOH1119-3-SC010 | 11/19/2008 | Station 3 | Sample Fault- Leaking SUMMA Cannister | | | | | |
| ESOH1123-3-SC011 | 11/23/2008 | Station 3 | 0.13 ppm | Current Sample | | | | |
| ESOH1124-4-SC012 | 11/24/2008 | Station 4 | 0.16 ppm | 11/24/2008 14:23 | 226 | NO | Pending | |
| ESOH1124-4-SC013 | 11/24/2008 | Station 4 | 0.16 ppm | Current Sample | | | | |
| ESOH1124-1-SC014 | 11/24/2008 | Station 1 | 0.50 ppm | Current Sample | | | | |

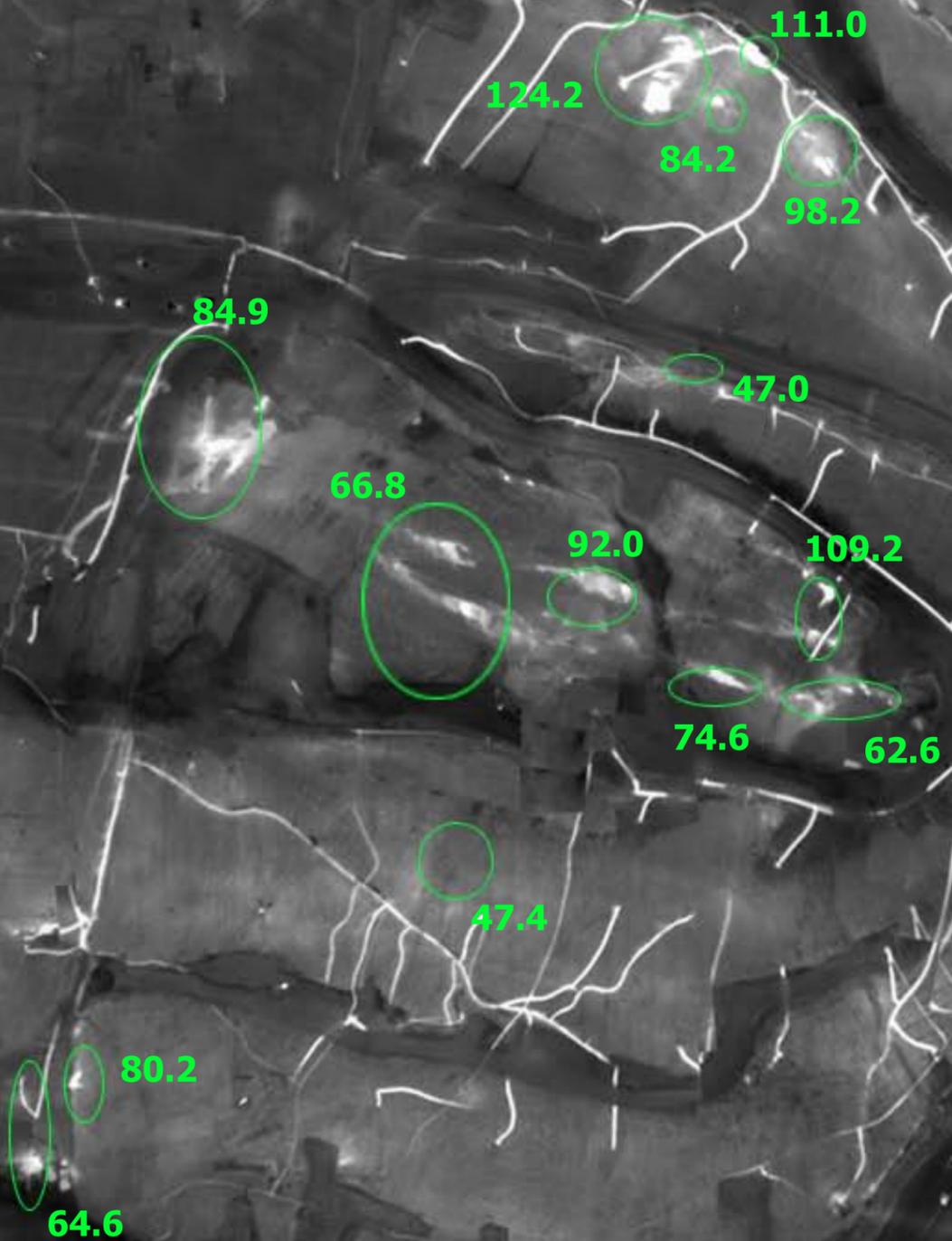
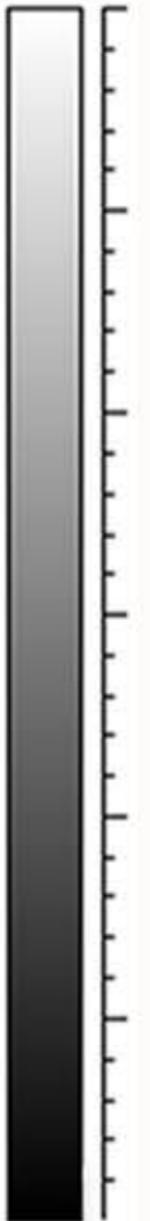
Current Sample- Sample canister that is at the station and ready to be triggered and then collected
Pending- Sample has been collected awaiting results from the laboratory

ATTACHMENT D
AERIAL INFRARED IMAGES

Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 10/24/2008

FLARE 4

AMBIENT TEMPERATURE WAS
43 DEG. F AT TIME OF IMAGE.



Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 11/22/2008

APPARENT LOCAL INCREASE IN
TEMPERATURE OVER OCTOBER

FLARE 10

FORMER
LOCATION OF
W-57R2

AMBIENT TEMPERATURE WAS
22 DEG. F AT TIME OF IMAGE.

