

# **Bridgeton Landfill, LLC**

## **Weekly Data Submittals**

**Required by Section 52.F of Agreed Order, Case No. 13SL-CC01088  
Effective May 13, 2013**

### **Contents:**

**Attachment A – Leachate Levels in Leachate Collection Sumps**

**Attachment B – Temperature Monitoring Probe Analytical Charts**

**Attachment C – Gas Interceptor Wellhead Temperature Graphs**

### **Provided Separately:**

- Leachate Level in Leachate Collection Sump Raw Data Excel Spreadsheet**
- Temperature Monitoring Probe Raw Data Excel Spreadsheet**
- Gas Interceptor Well Reading Raw Data Excel Spreadsheet**

**September 10, 2014**

## **Commentary on Data**

### **Attachment A – Leachate Levels in Leachate Collection Sumps**

LCS-1D, -2D -5A, and -6B were partially or fully operational during the weekly reporting period.

LCS-4B still exhibits excess pressure and liquid ejection, so it has not been fitted with a pump; however, the conditions are resulting in leachate removal from that location. Options for pumping from this location are currently under review.

### **Attachment B - Temperature Monitoring Probe Analytical Charts**

The following TMPs indicated consistent profiles to previous observations: TMP-1, -2, -3, -4, -6, -8, -9, -10, -11, -12, and -14.

TMP-16, -17 and -18 were installed in August, and consistent sets of readings have been obtained and preliminary graphs have been presented with this weekly report. Measured temperature at the new TMPs ranged from approximately 100°F to 162°F, which is as expected based on the GEW gas wellhead temperatures in the vicinity of these new TMPs. Previous analyses (see Note 1) have shown that maximum TMP values are typically 40°F to 45°F higher than wellhead temperatures in nearby gas wells, as was observed with the new TMPs.

TMP-5, -7, -7R, -13, and -15 have been removed from the presentation based on unreliable thermocouple measurements or other documented issues.

### **Attachment C - Gas Interceptor Wellhead Temperature Graphs**

The fluctuation in wellhead gas temperatures can be attributed to variation in available vacuum, gas flow and ambient temperatures at the respective well.

Each gas interceptor well remained relatively consistent or lower with regards to gas wellhead temperatures previously measured at each location.

The water circulation cooling loop is currently installed in GIW-4.

#### **Note:**

- 1) Reference: Appendix E in “North Quarry Contingency Plan – Part 1,” submitted August 13, 2013.

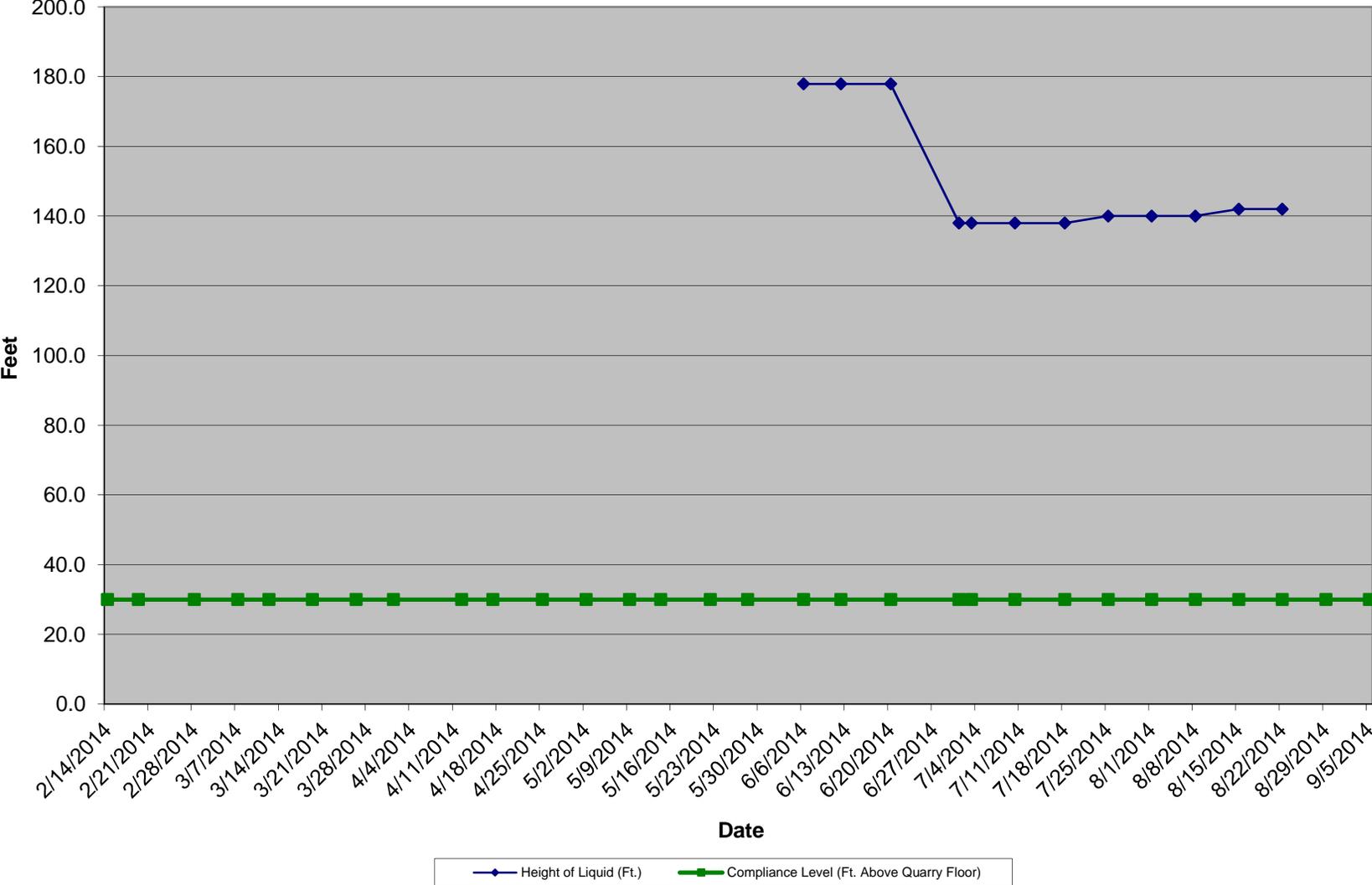
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**ATTACHMENT A**

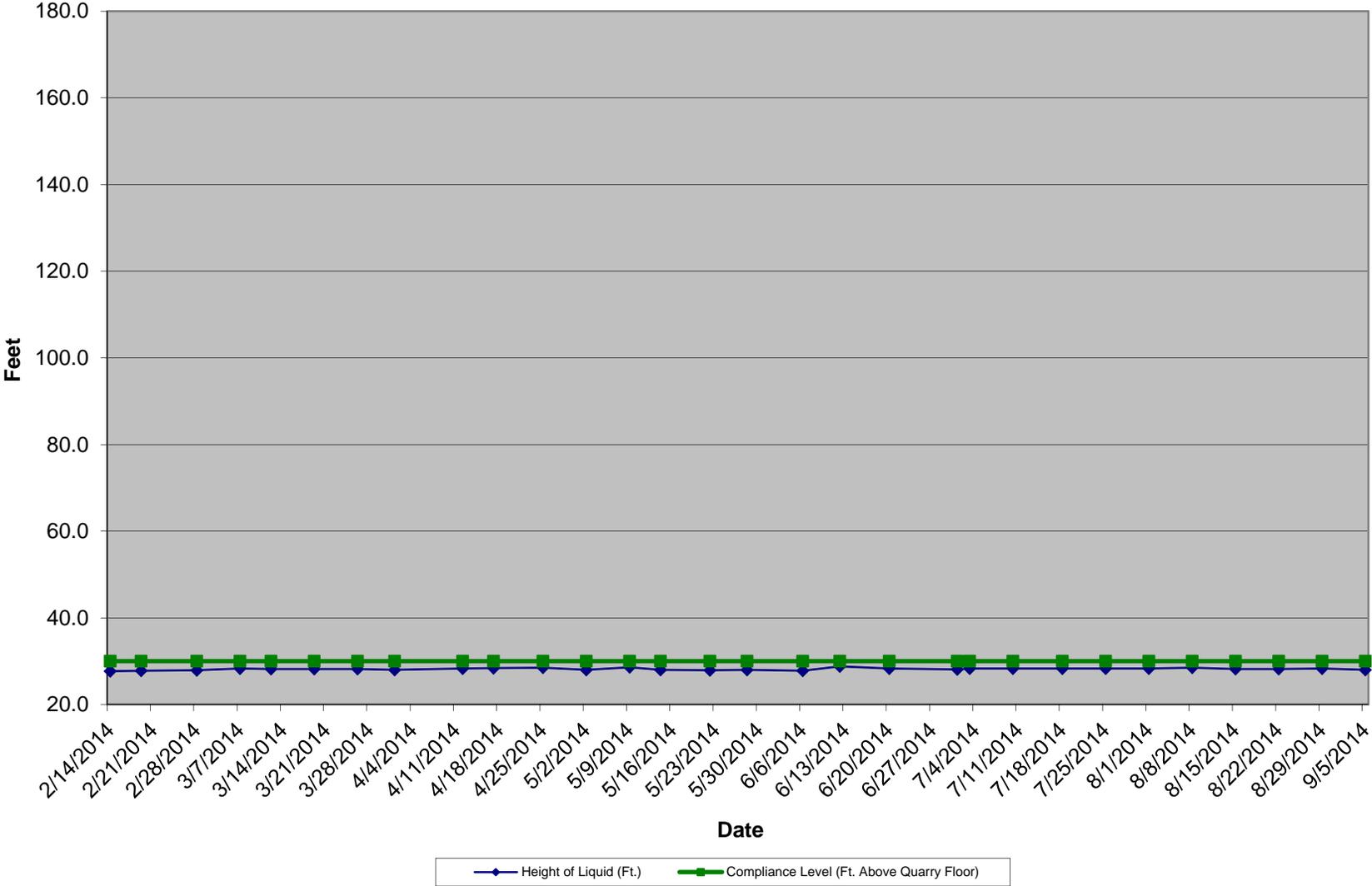
**LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS**

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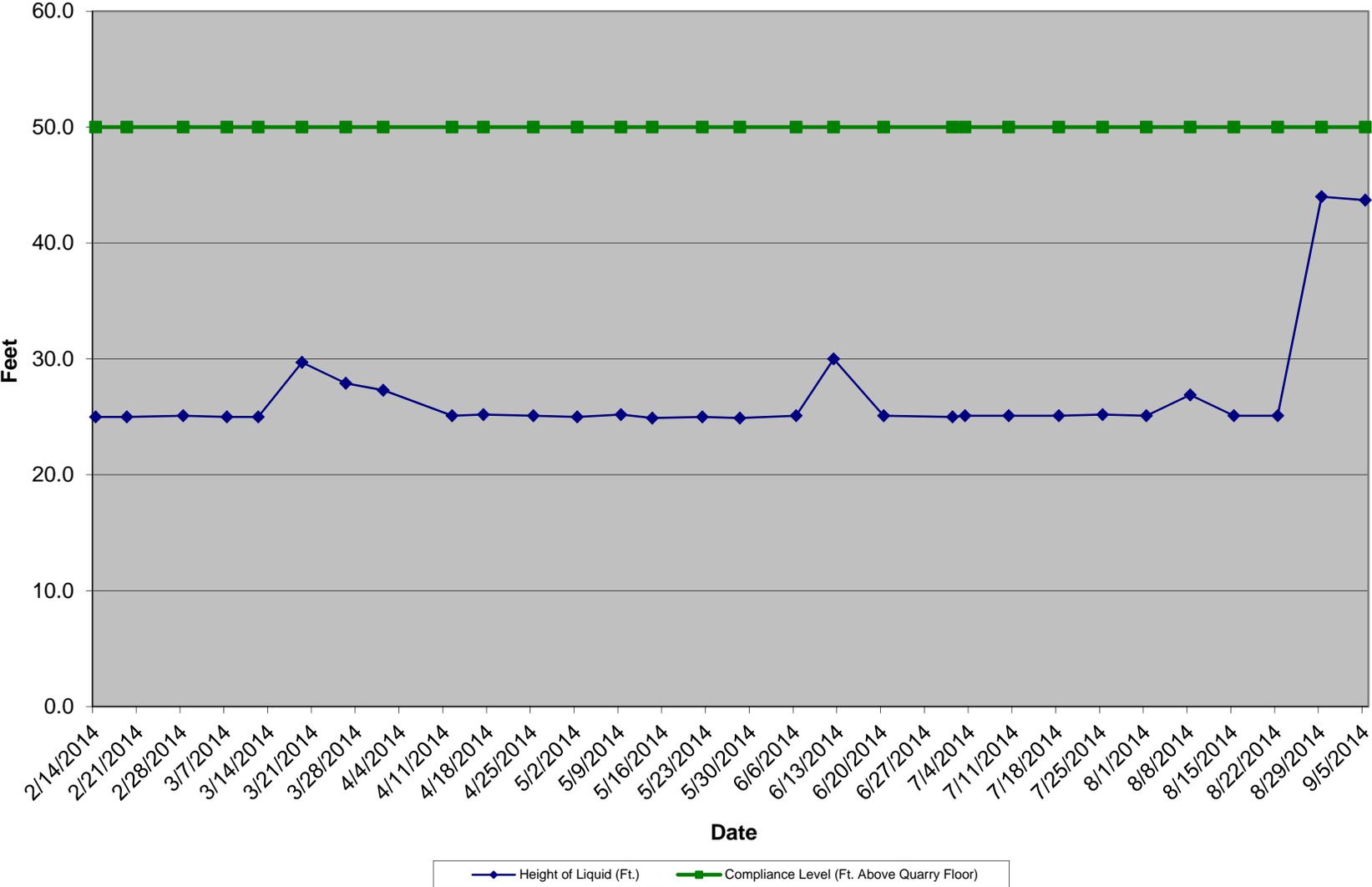
### LCS-1D Liquid Level Above Quarry Floor



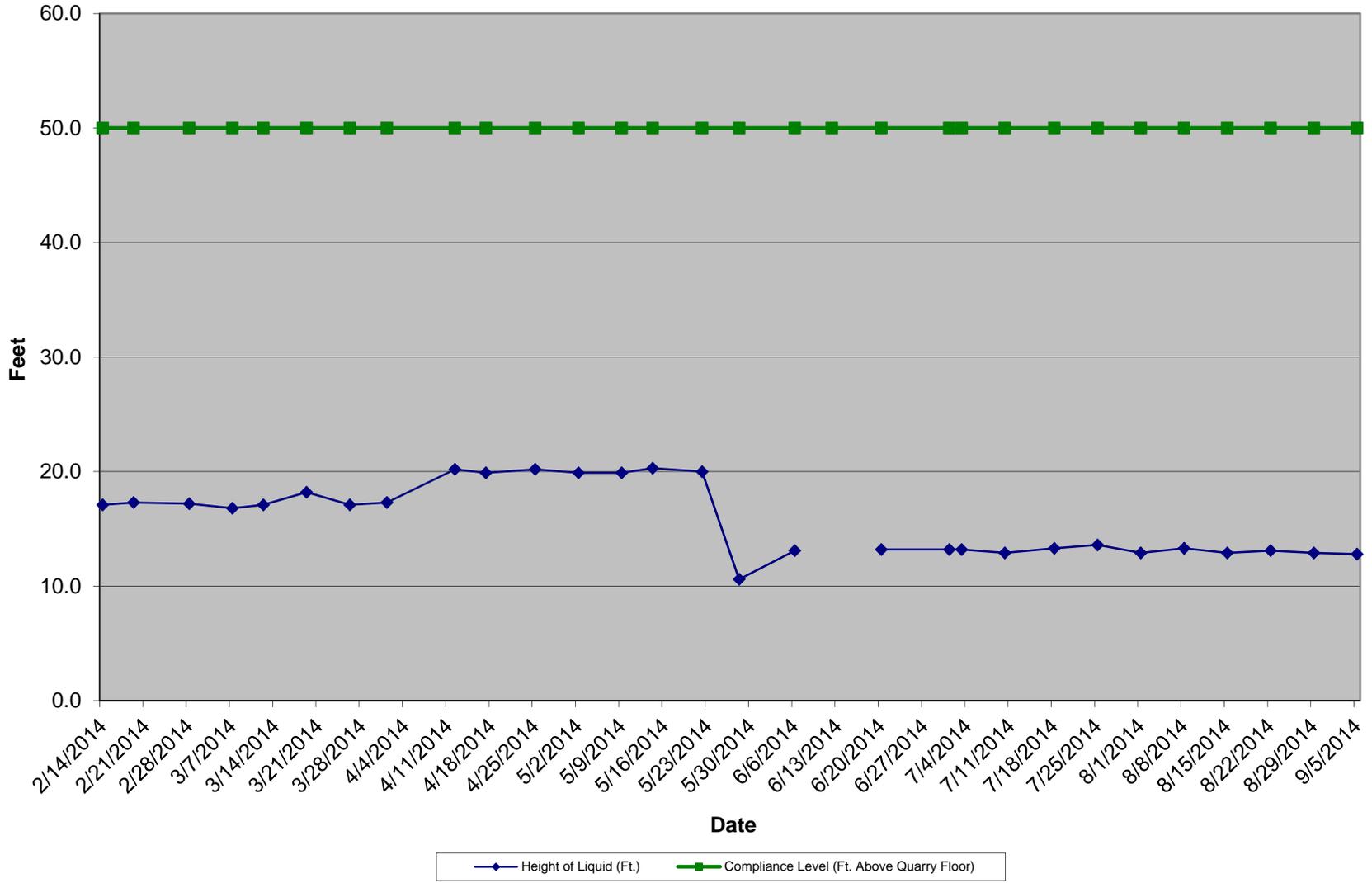
### LCS-2D Liquid Level Above Quarry Floor



### LCS-5A Liquid Level Above Quarry Floor



### LCS-6B Liquid Level Above Quarry Floor



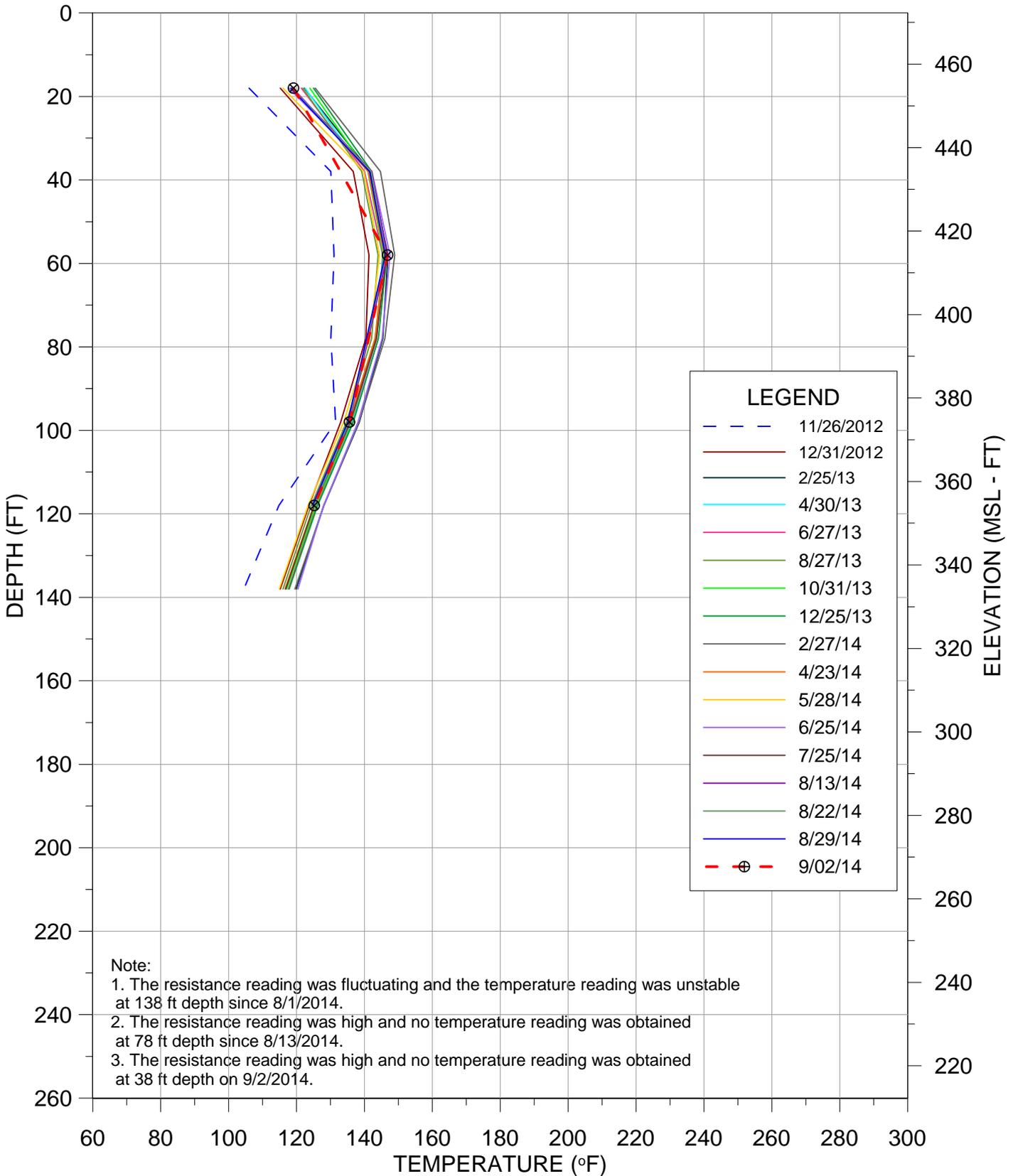
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**ATTACHMENT B**

**TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS**

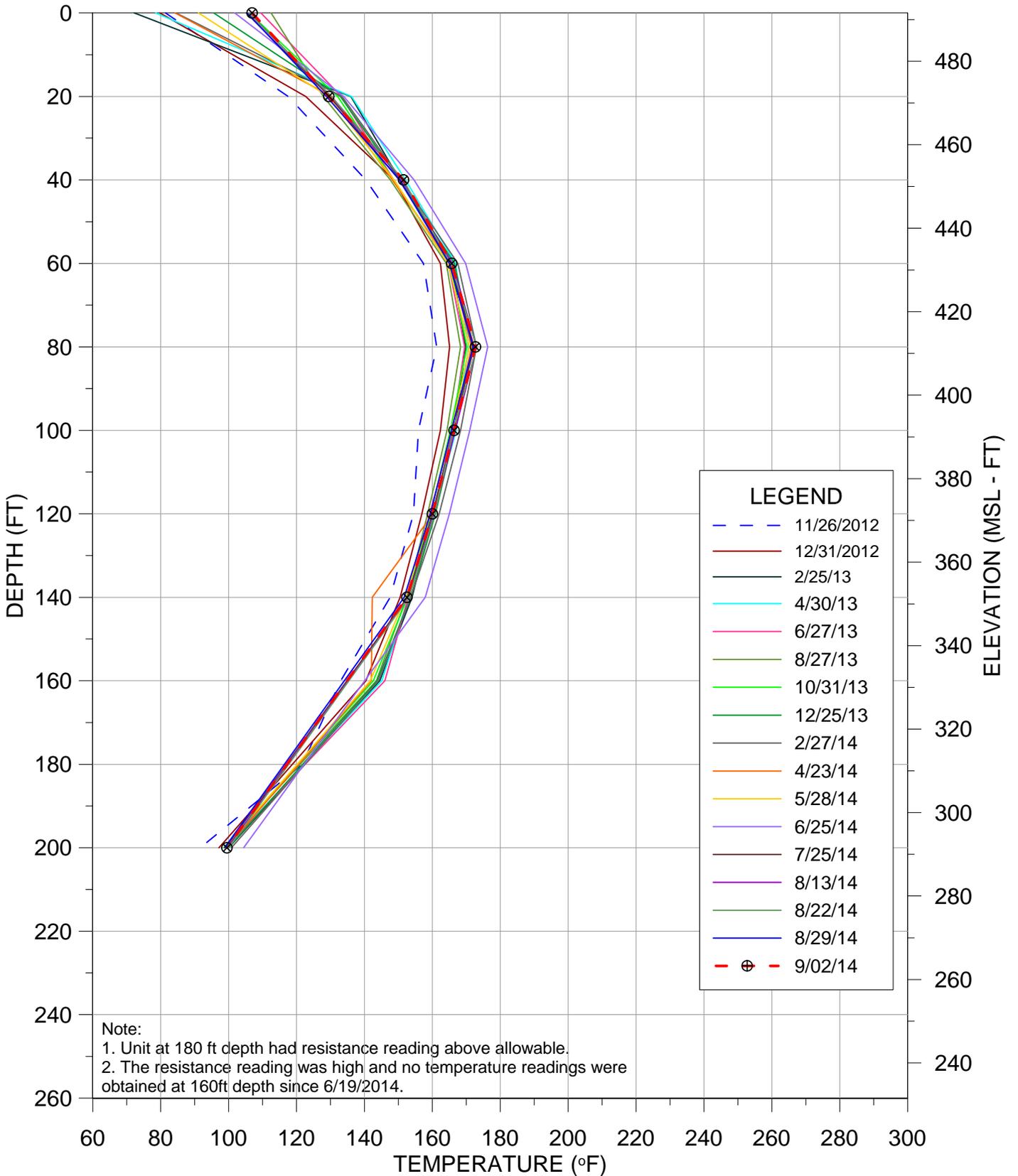
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# TMP-1



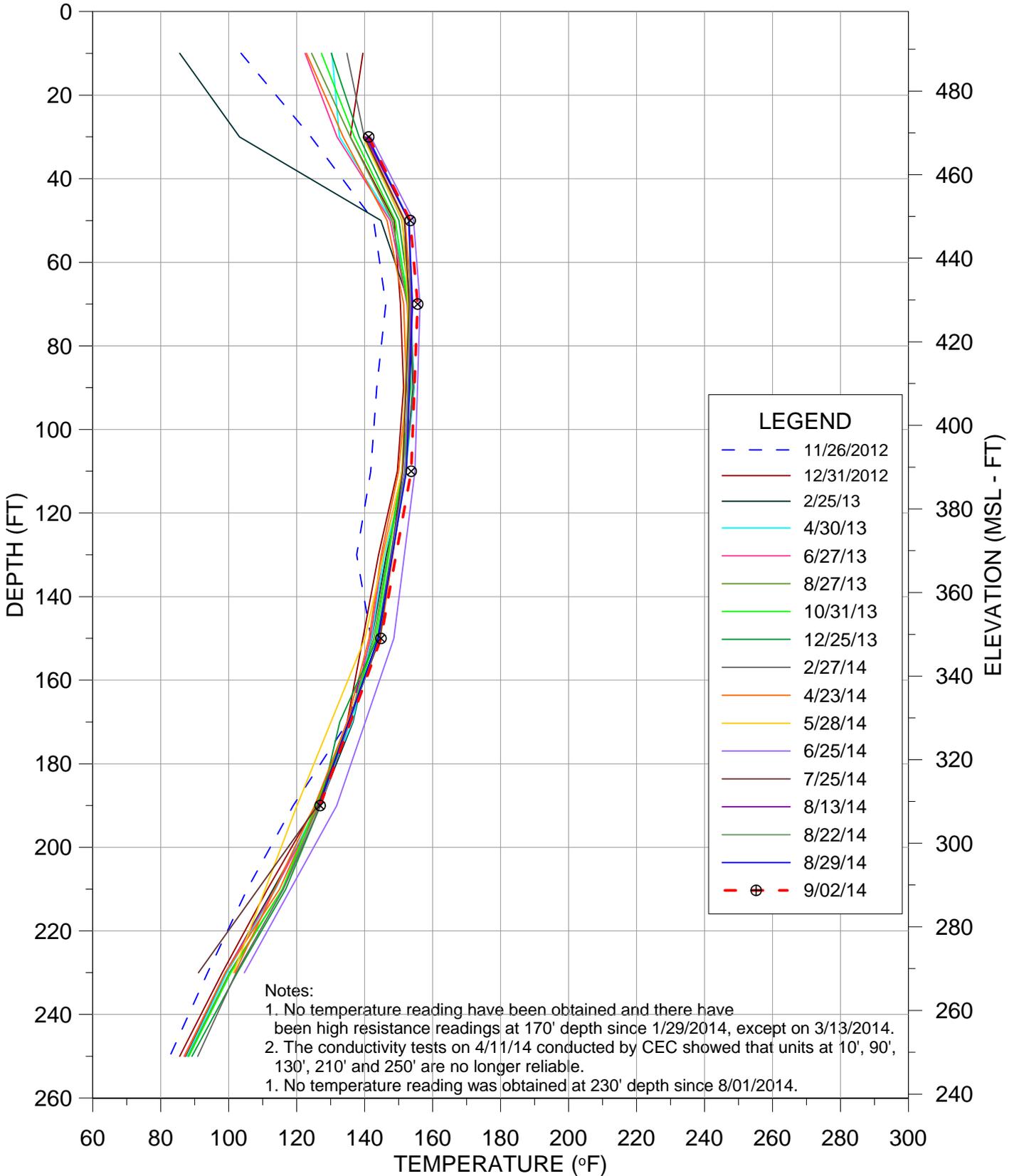
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-2



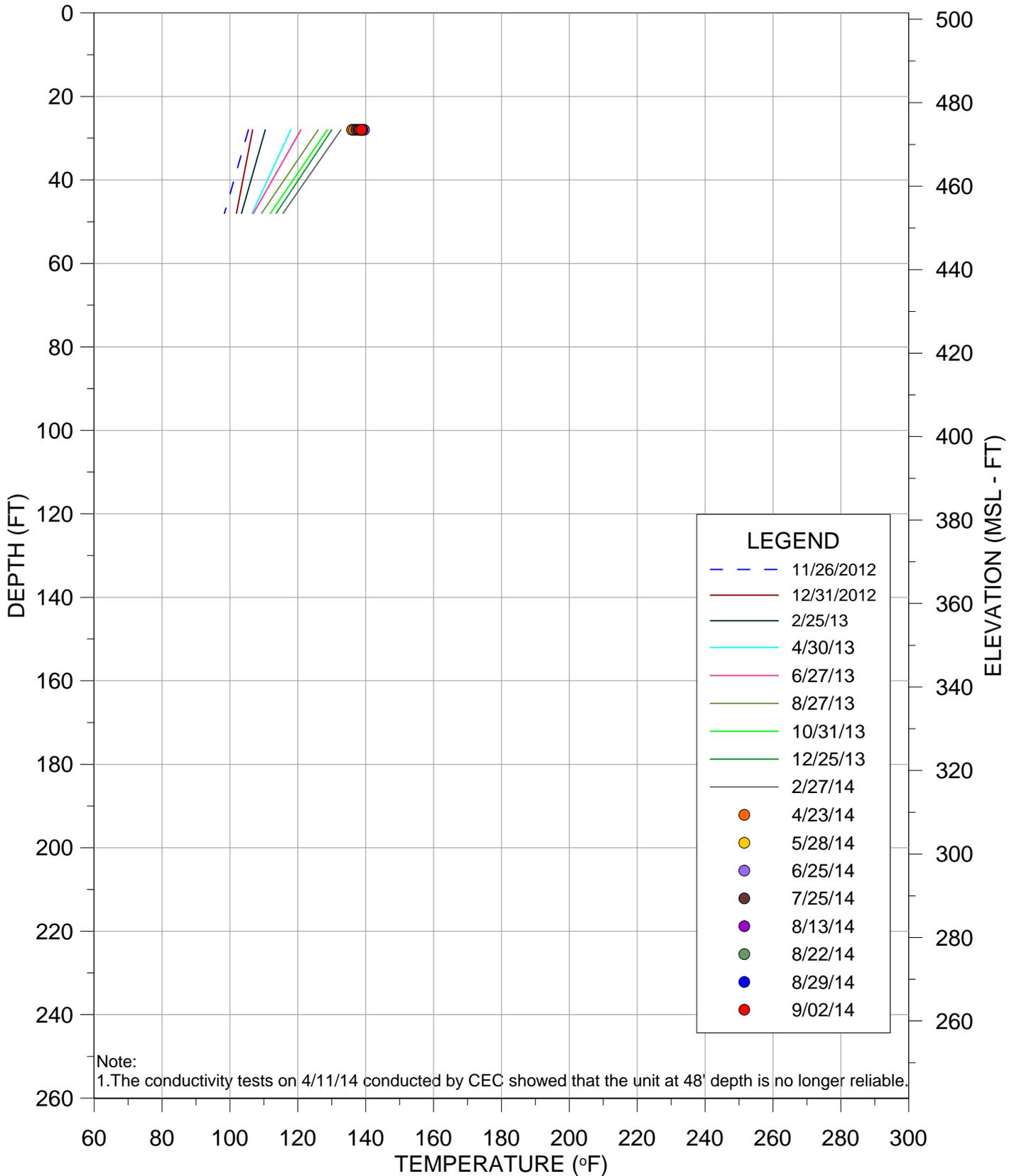
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-3



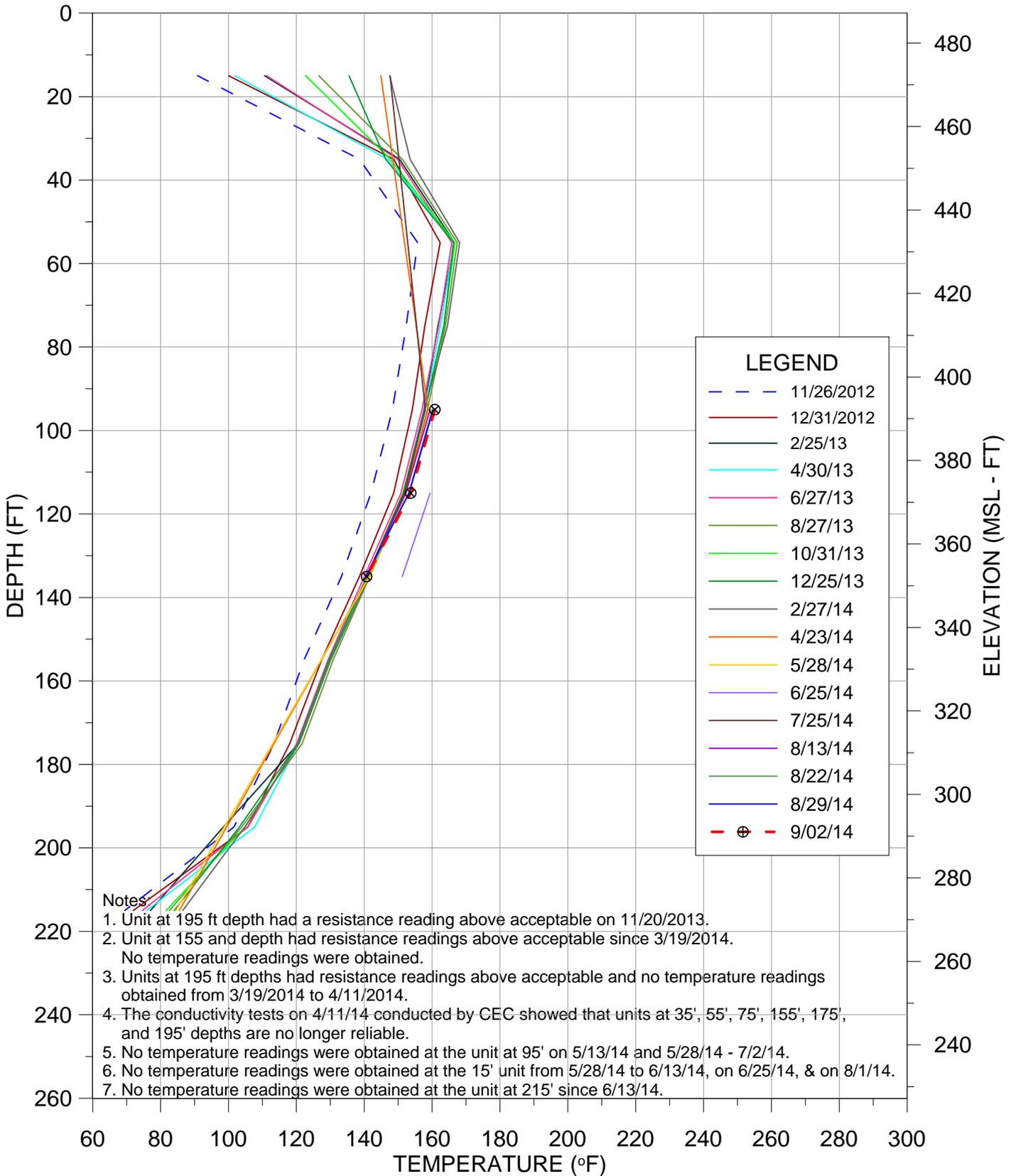
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-4



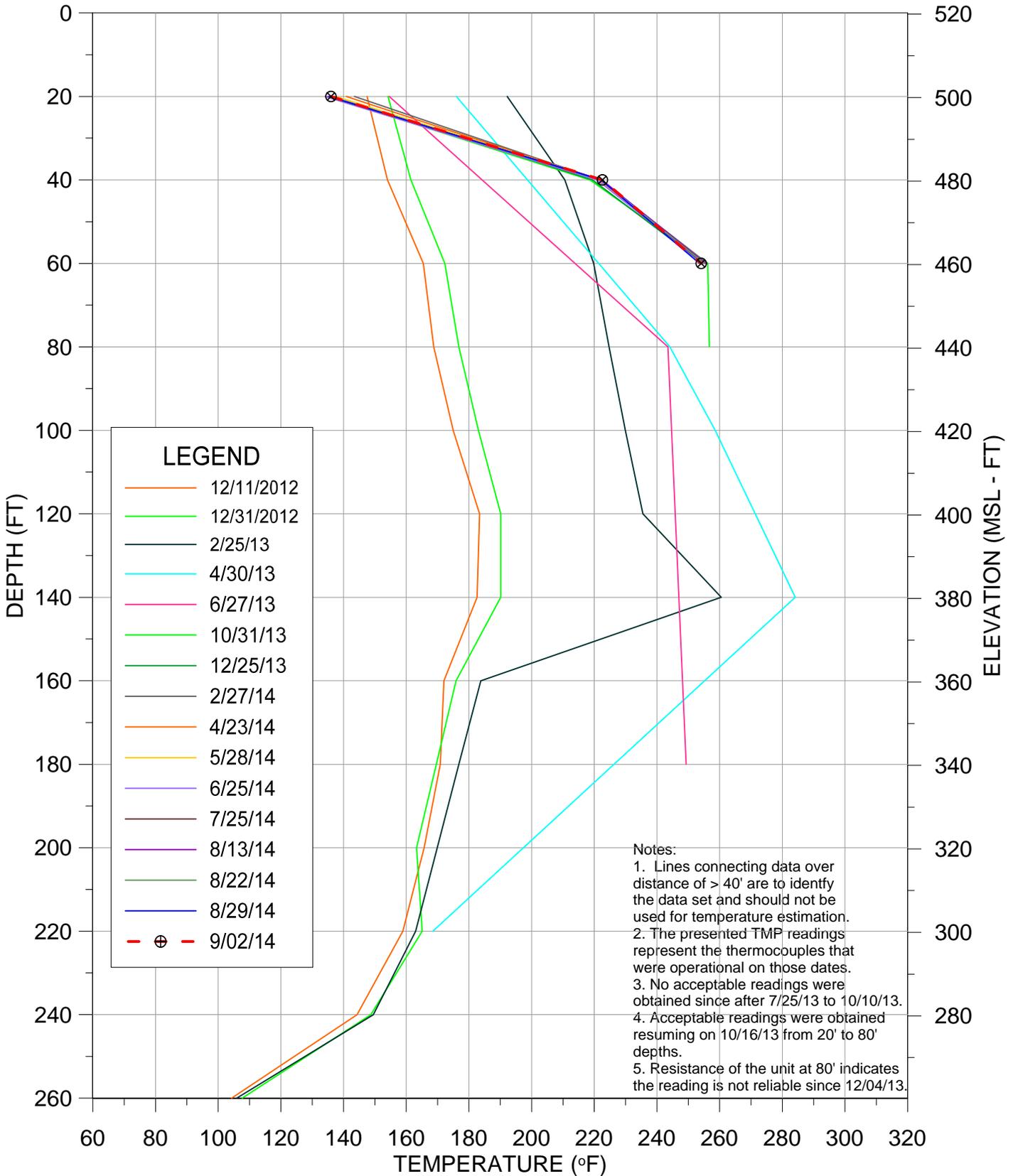
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-6



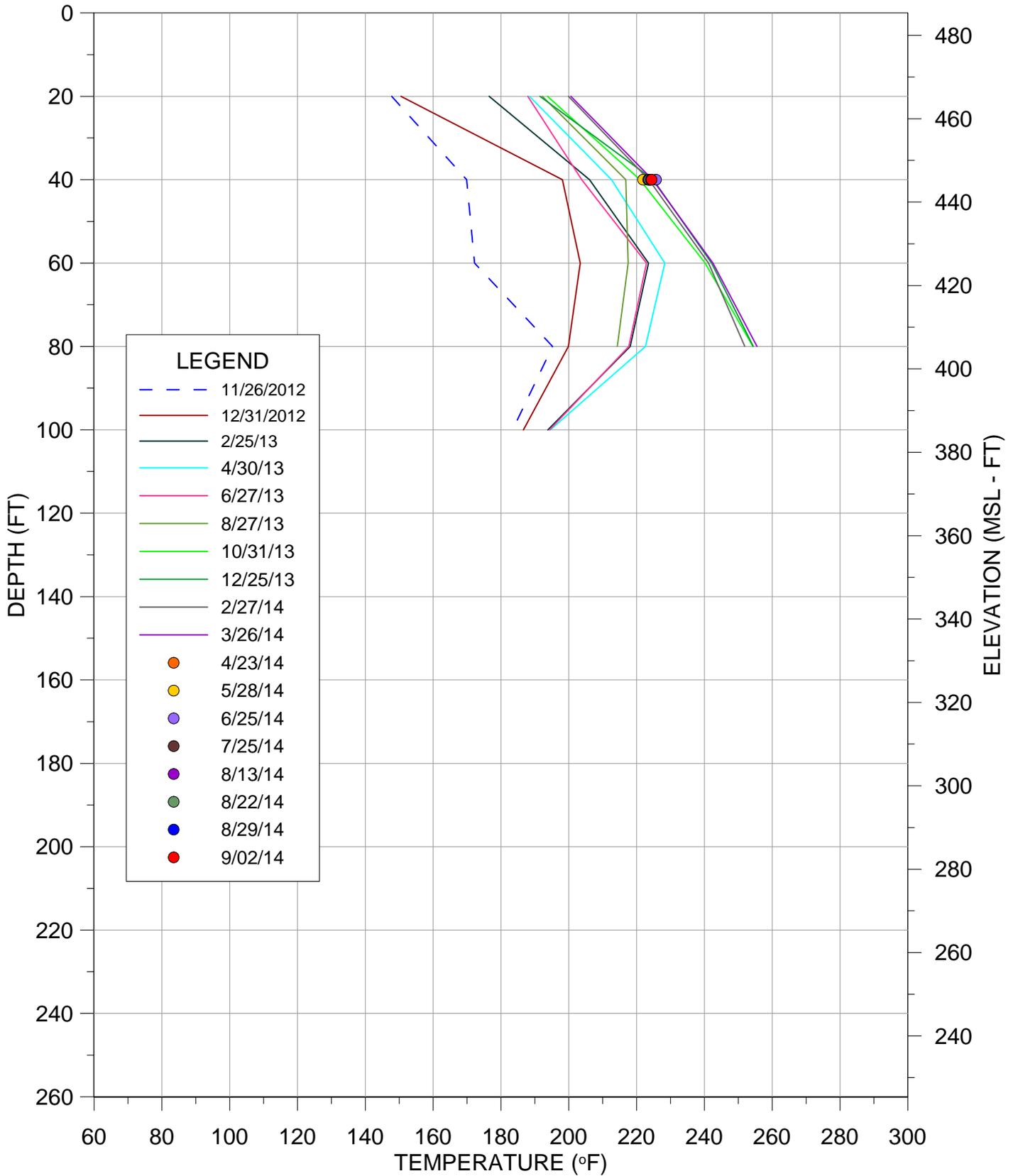
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-8



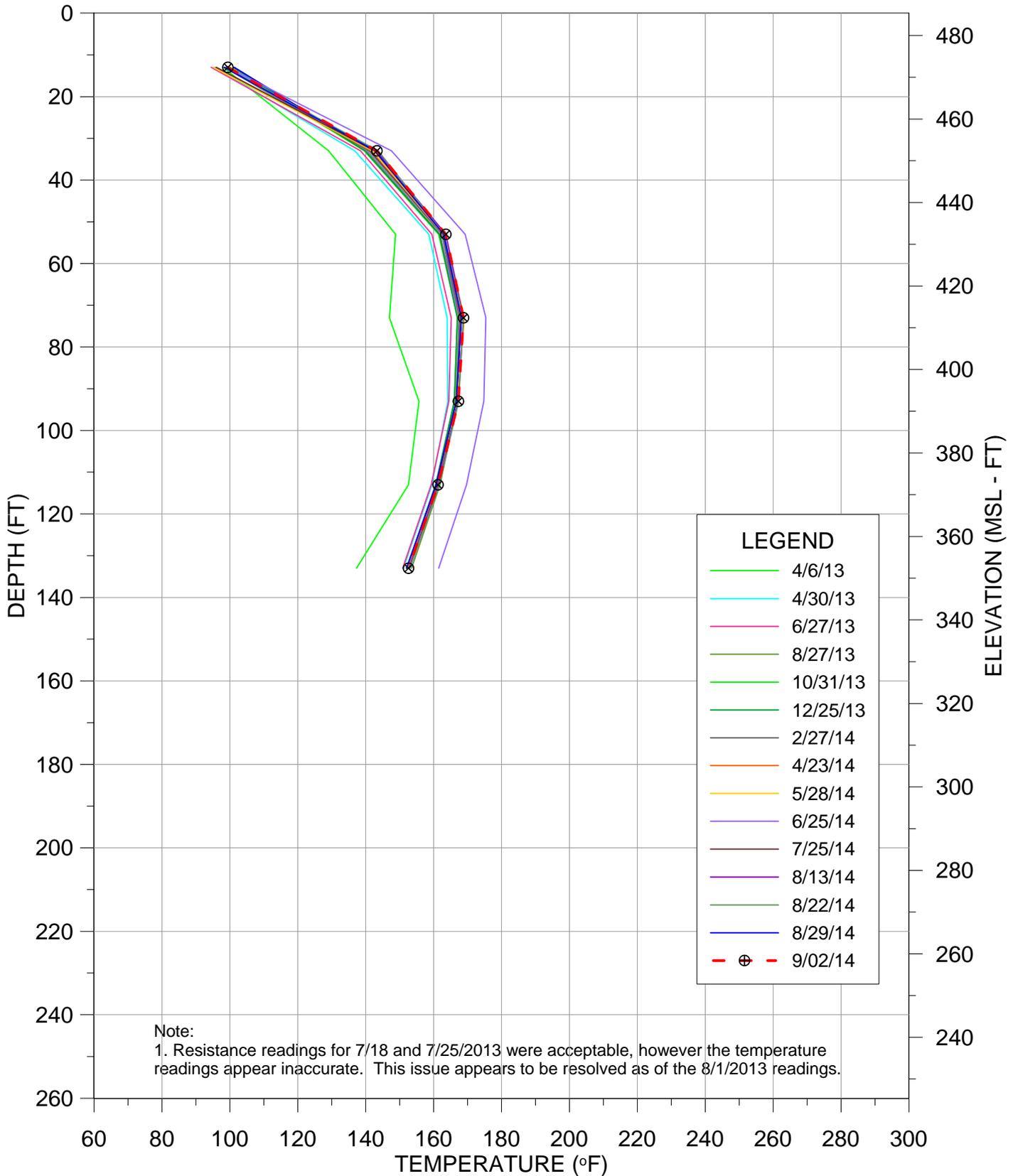
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-9



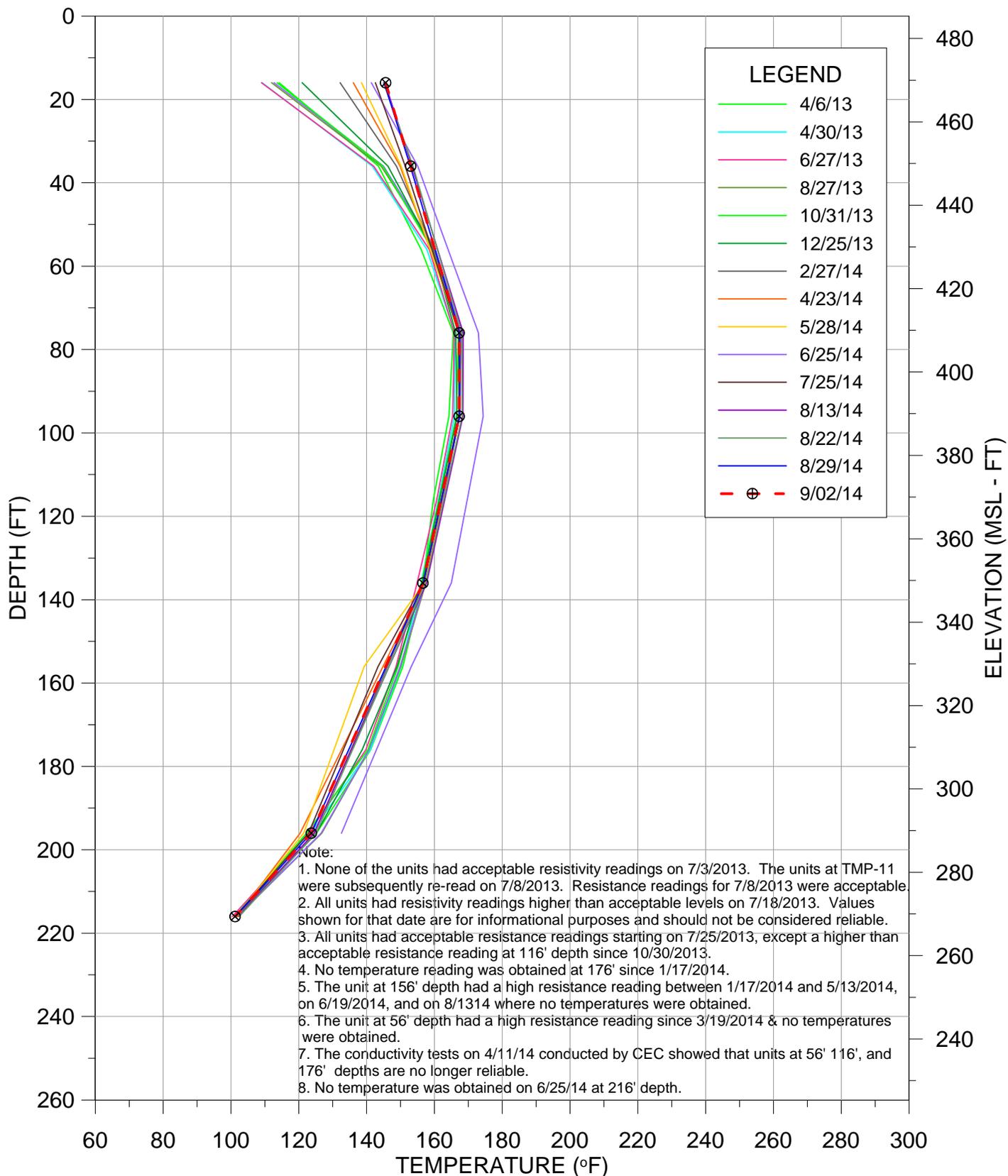
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-10



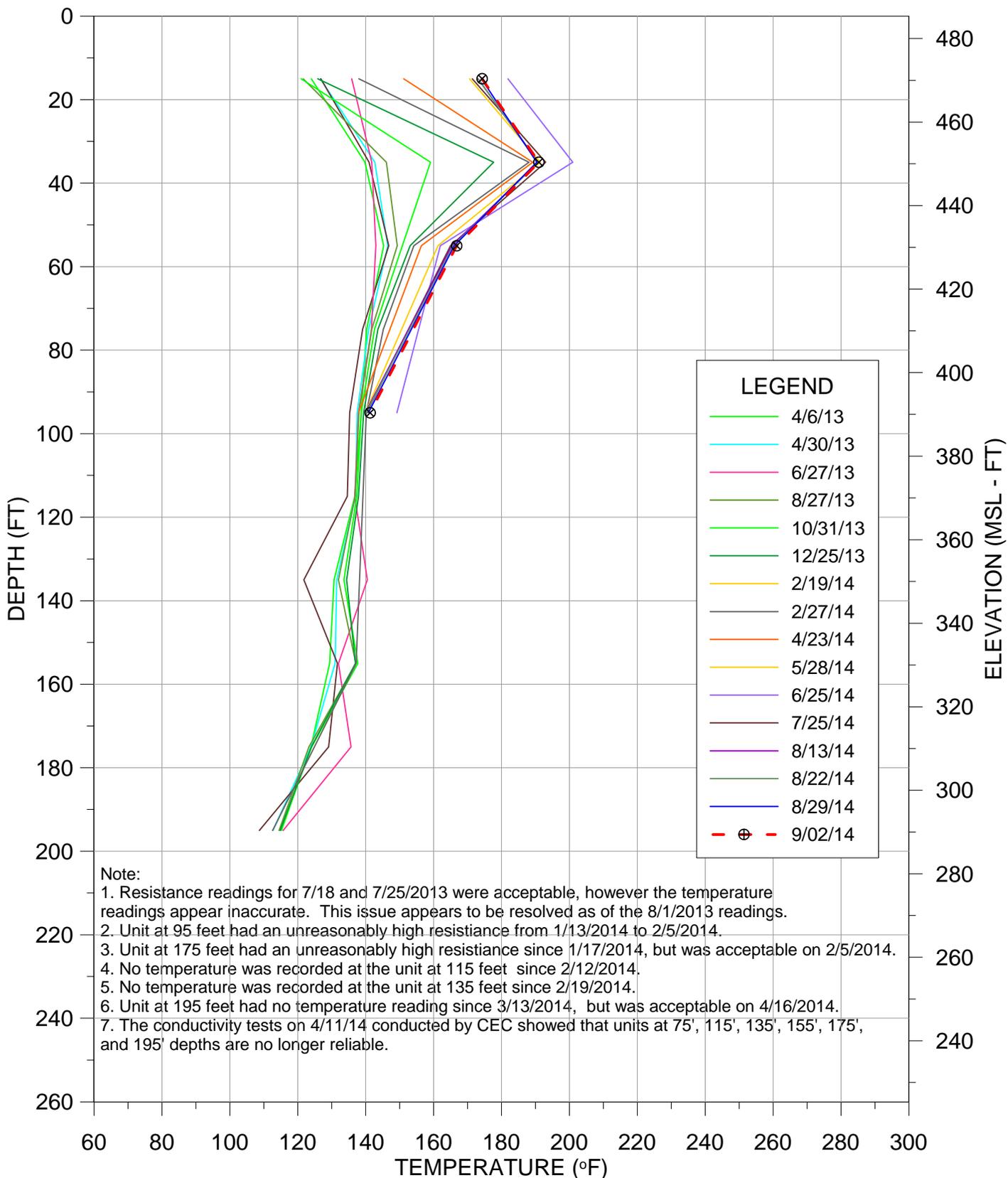
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-11



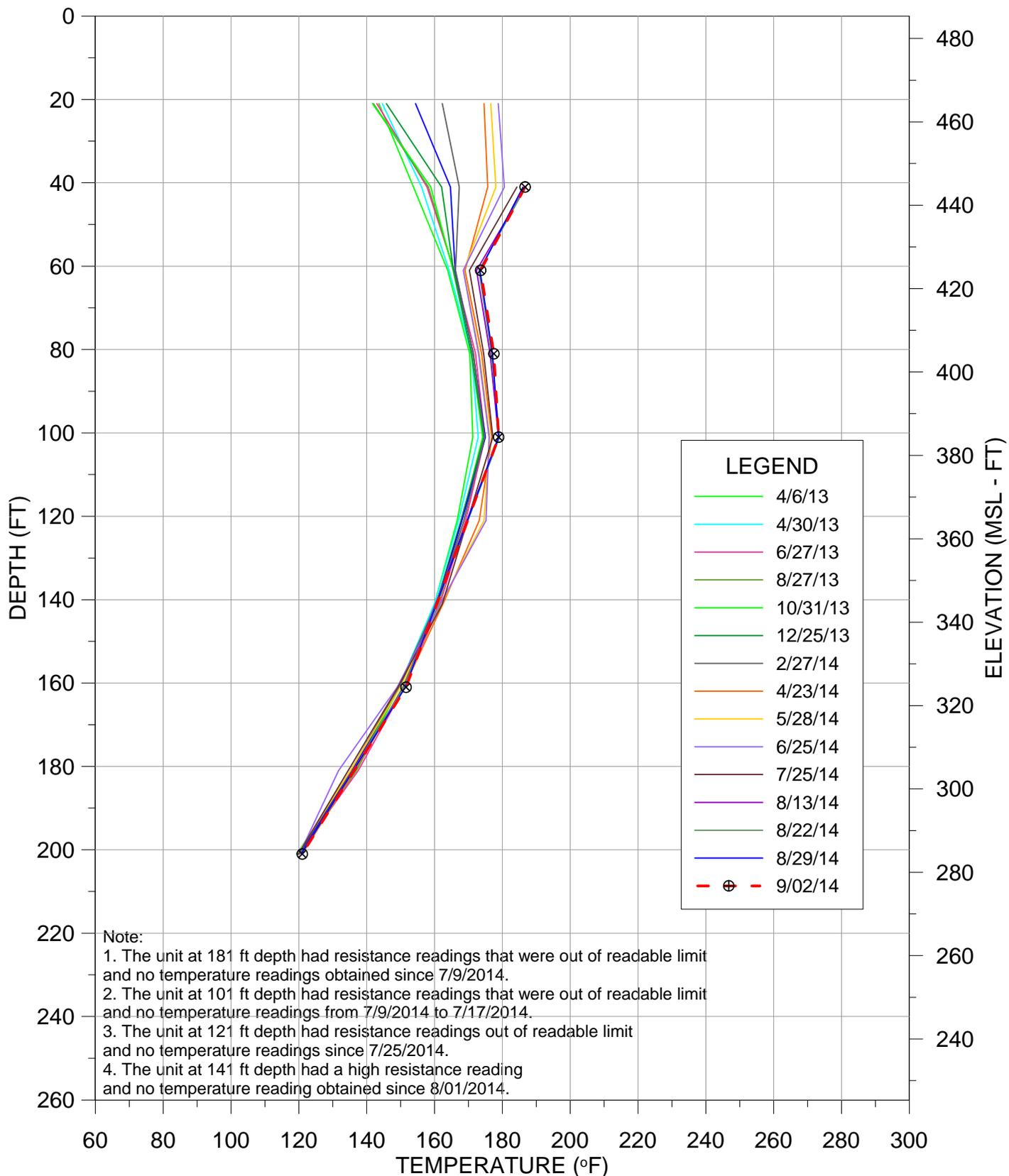
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-12



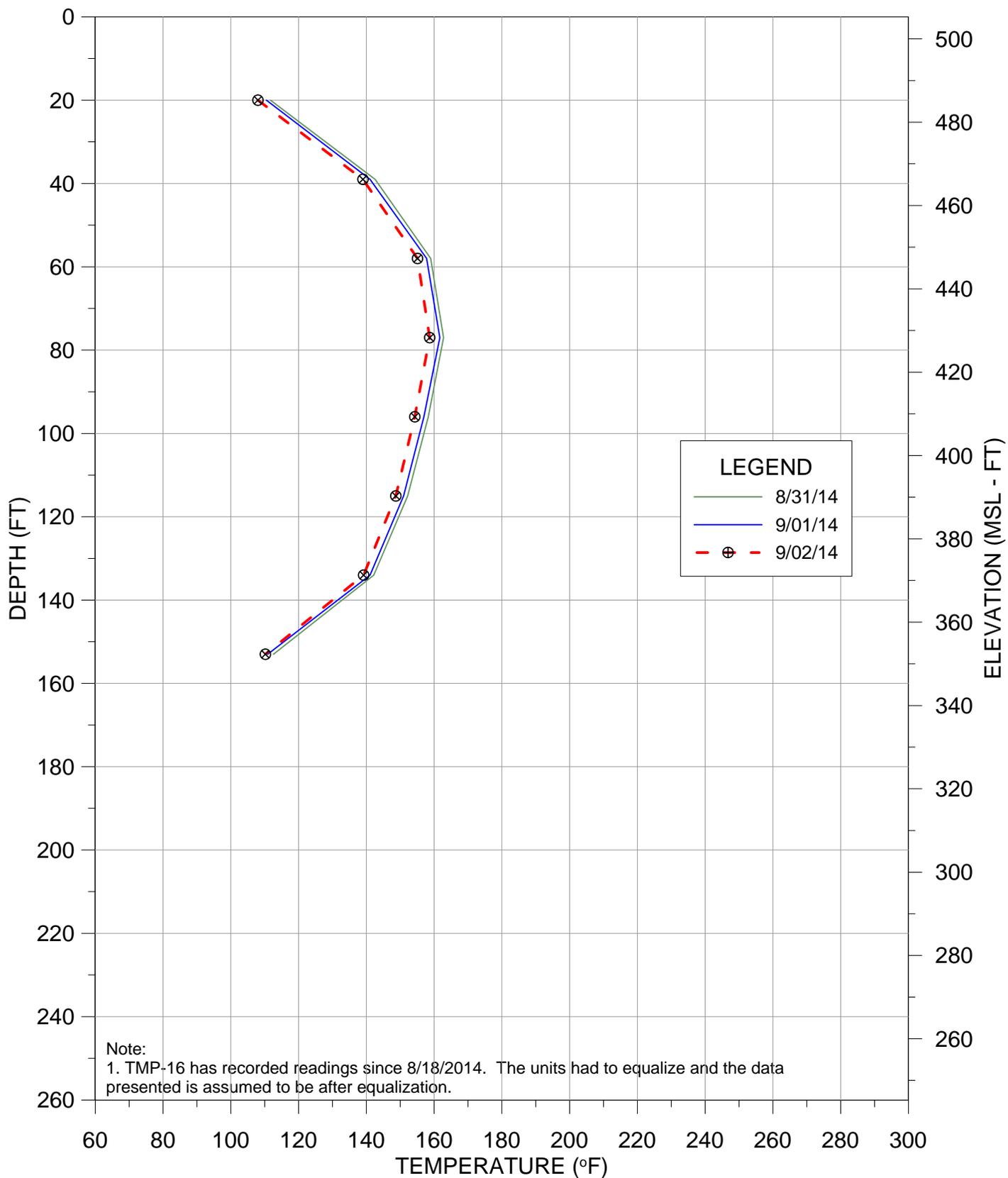
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-14



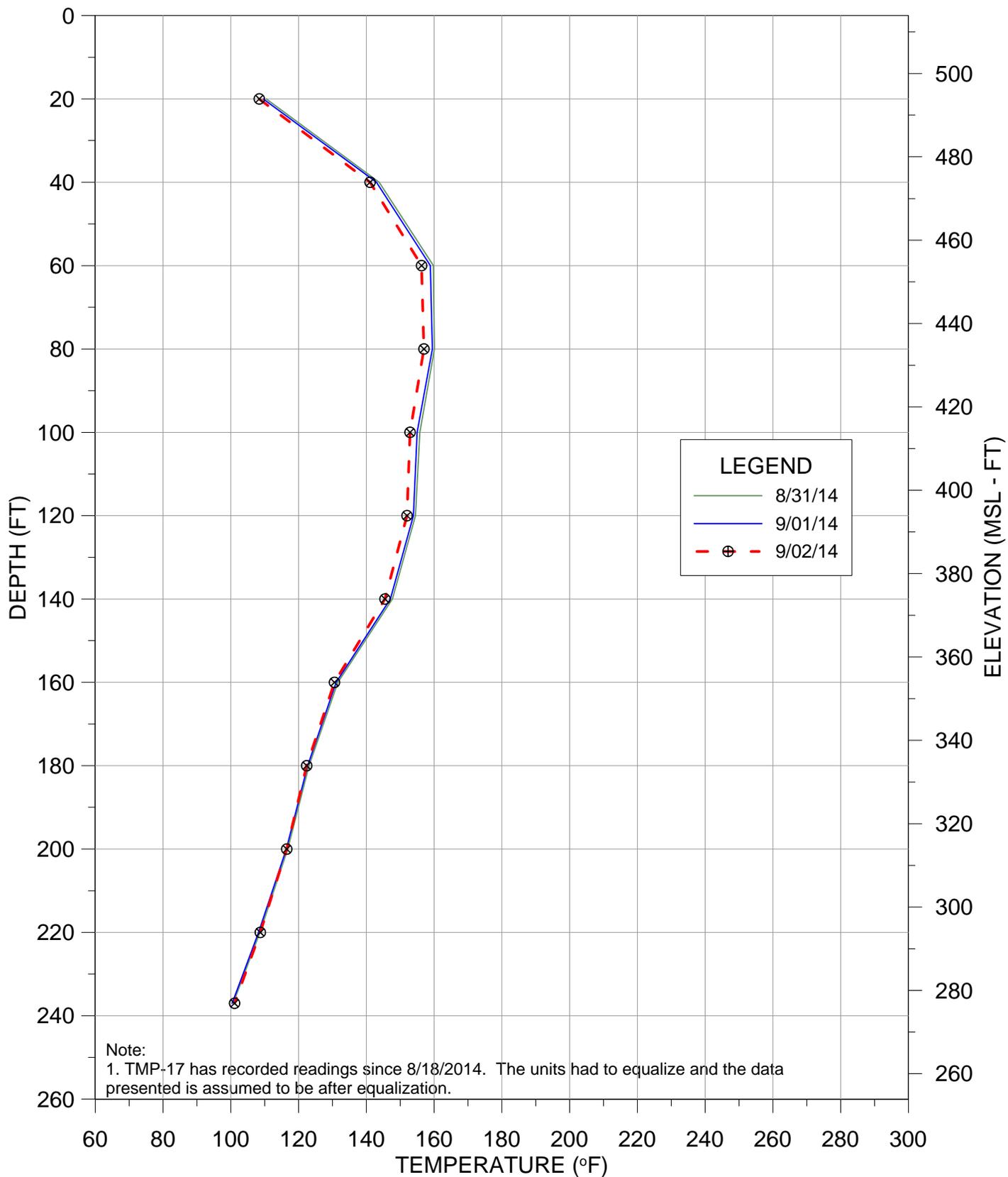
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-16



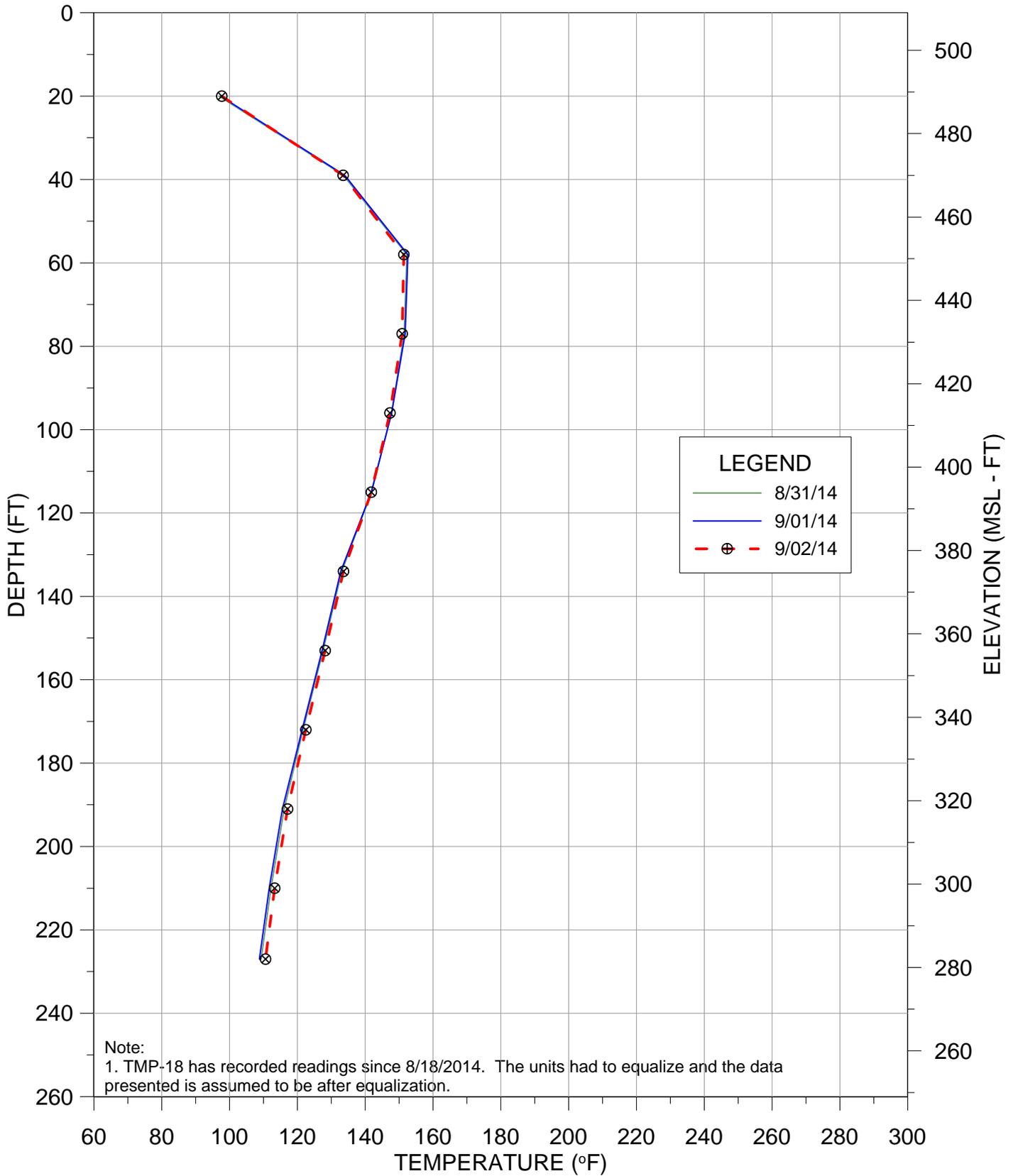
Note:  
1. TMP-16 has recorded readings since 8/18/2014. The units had to equalize and the data presented is assumed to be after equalization.

# TMP-17



TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

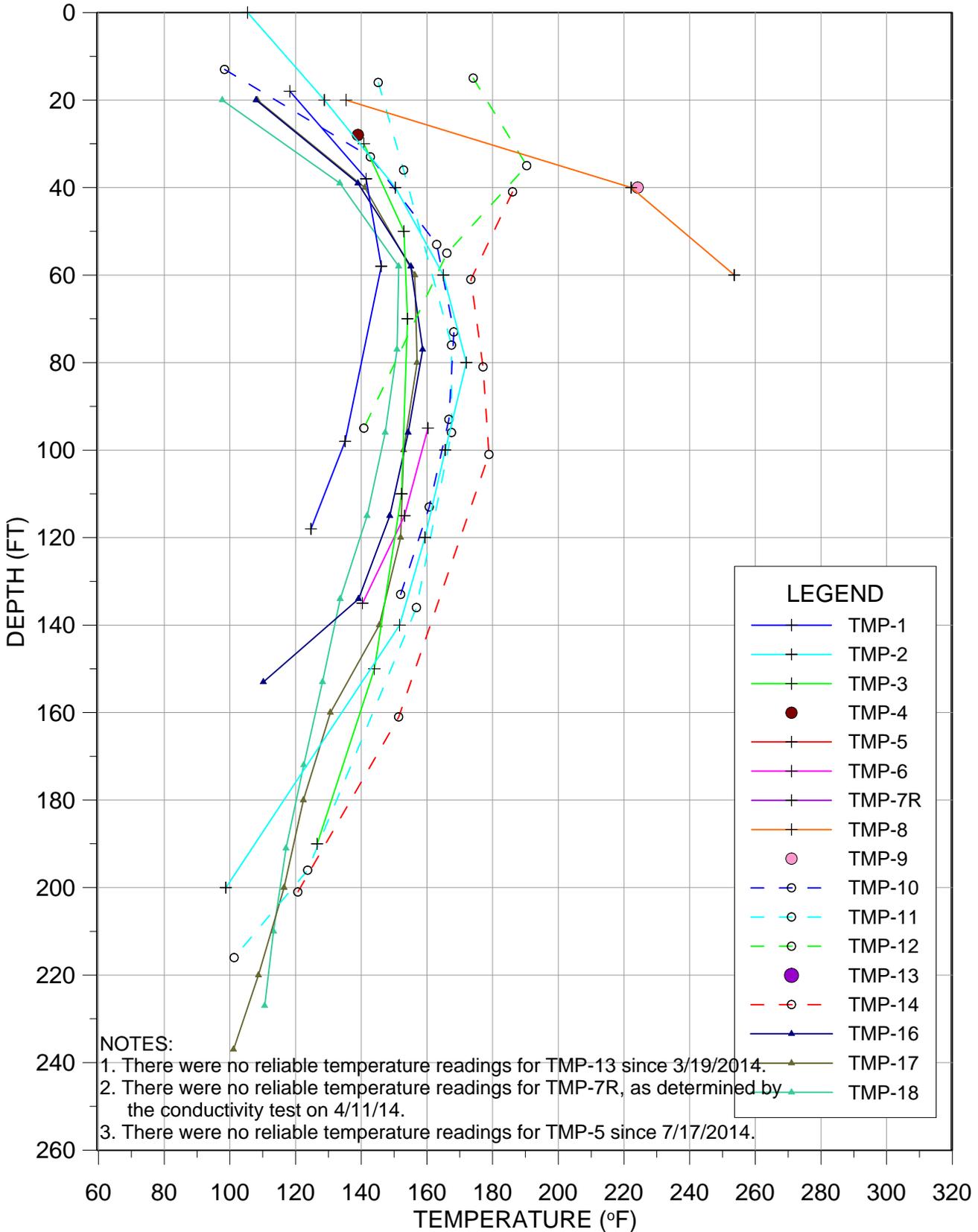
# TMP-18



Note:  
1. TMP-18 has recorded readings since 8/18/2014. The units had to equalize and the data presented is assumed to be after equalization.

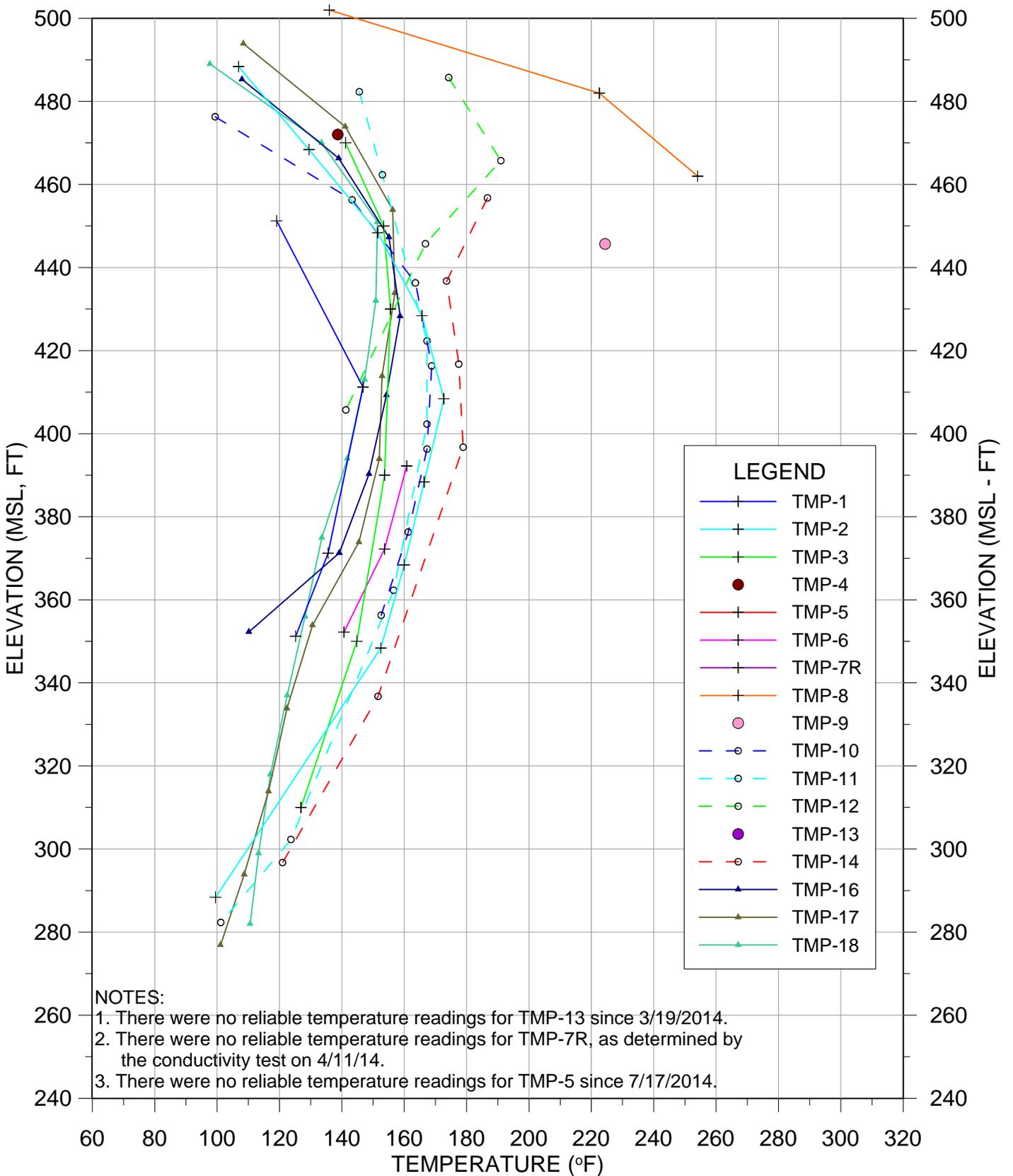
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# 09/02/2014 -DEPTH



TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

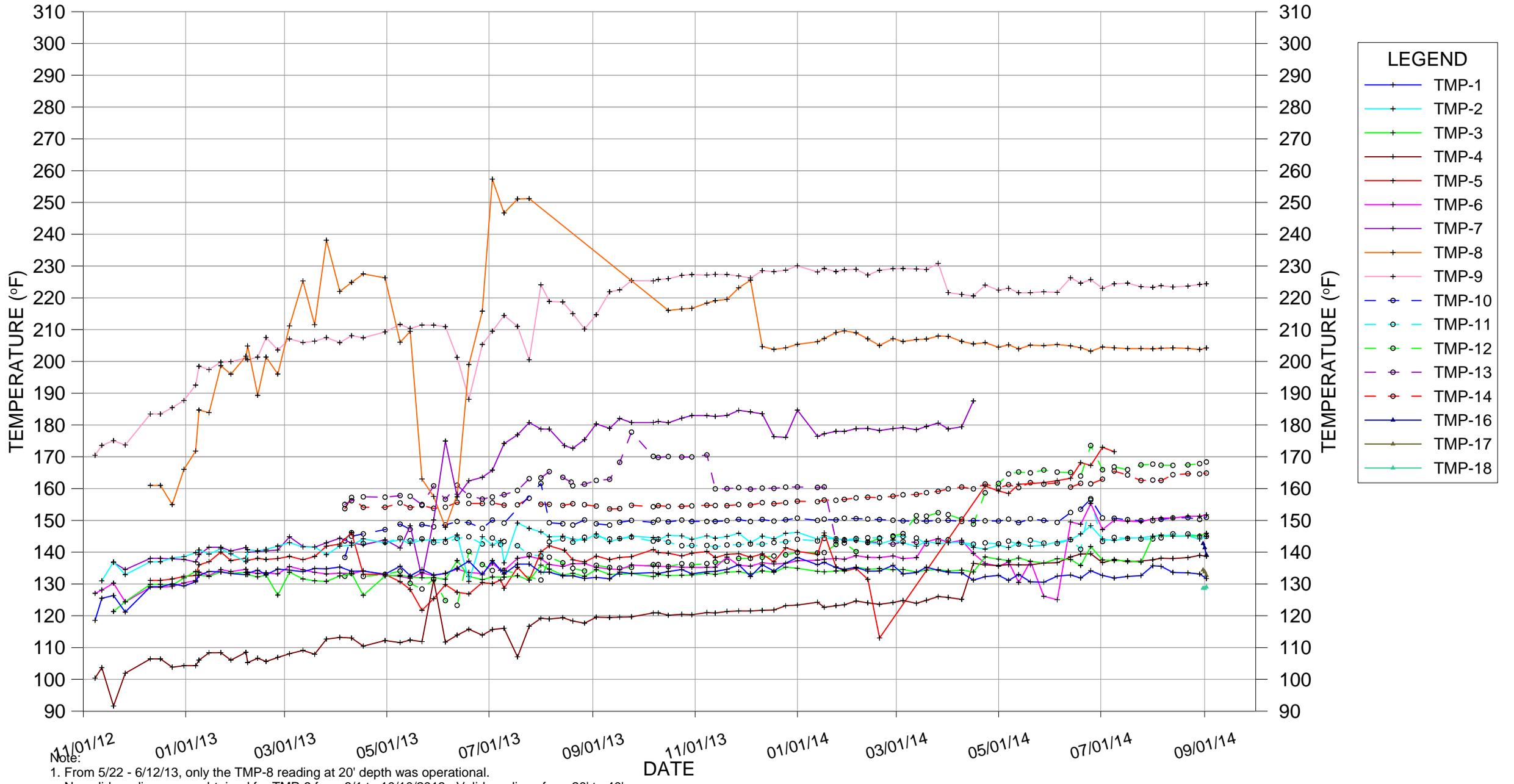
# 09/02/2014 - ELEVATION



**NOTES:**

1. There were no reliable temperature readings for TMP-13 since 3/19/2014.
2. There were no reliable temperature readings for TMP-7R, as determined by the conductivity test on 4/11/14.
3. There were no reliable temperature readings for TMP-5 since 7/17/2014.

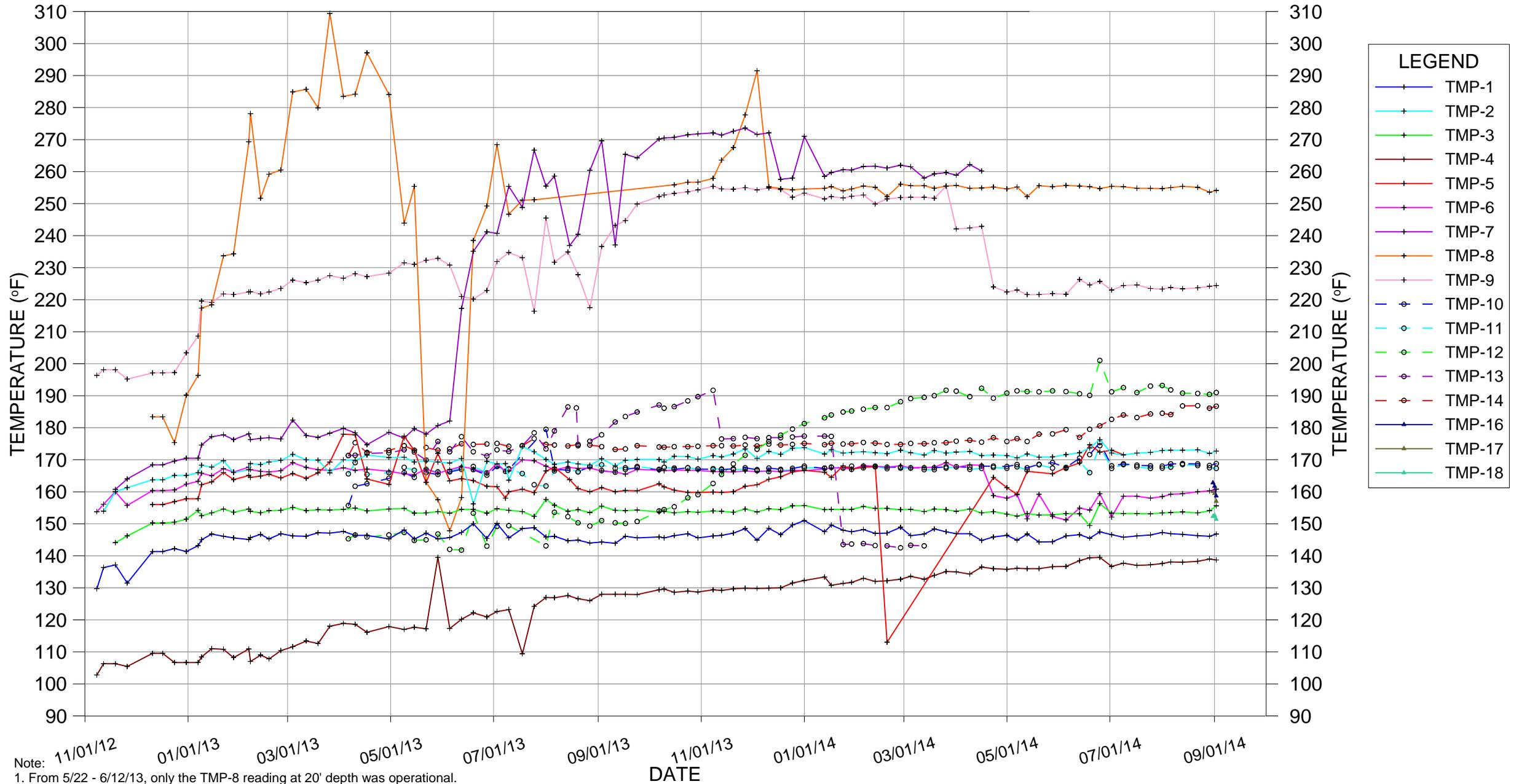
# AVERAGE TEMPERATURES



Note:  
 1. From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational.  
 No valid readings were obtained for TMP-8 from 8/1 to 10/10/2013. Valid readings from 20' to 40' resumed on 10/16/2013.  
 2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.  
 3. No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.  
 4. End terminals were replaced just prior to the 8/6/2013 readings with type T Omega connectors (part # SMPW-CC-T-M) on all TMPs except for TMP-8.

TEMPERATURE VS TIME  
 BRIDGETON LANDFILL

# MAXIMUM TEMPERATURES



Note: 11/01/12

1. From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational. No valid readings were obtained for TMP-8 from 8/1 to 10/10/2013. Valid readings from 20' to 40' resumed on 10/16/2013.
2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.
3. No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.
4. End terminals were replaced just prior to the 8/6/2013 readings with type T Omega connectors (part # SMPW-CC-T-M) on all TMPs except for TMP-8.

TEMPERATURE VS TIME  
BRIDGETON LANDFILL

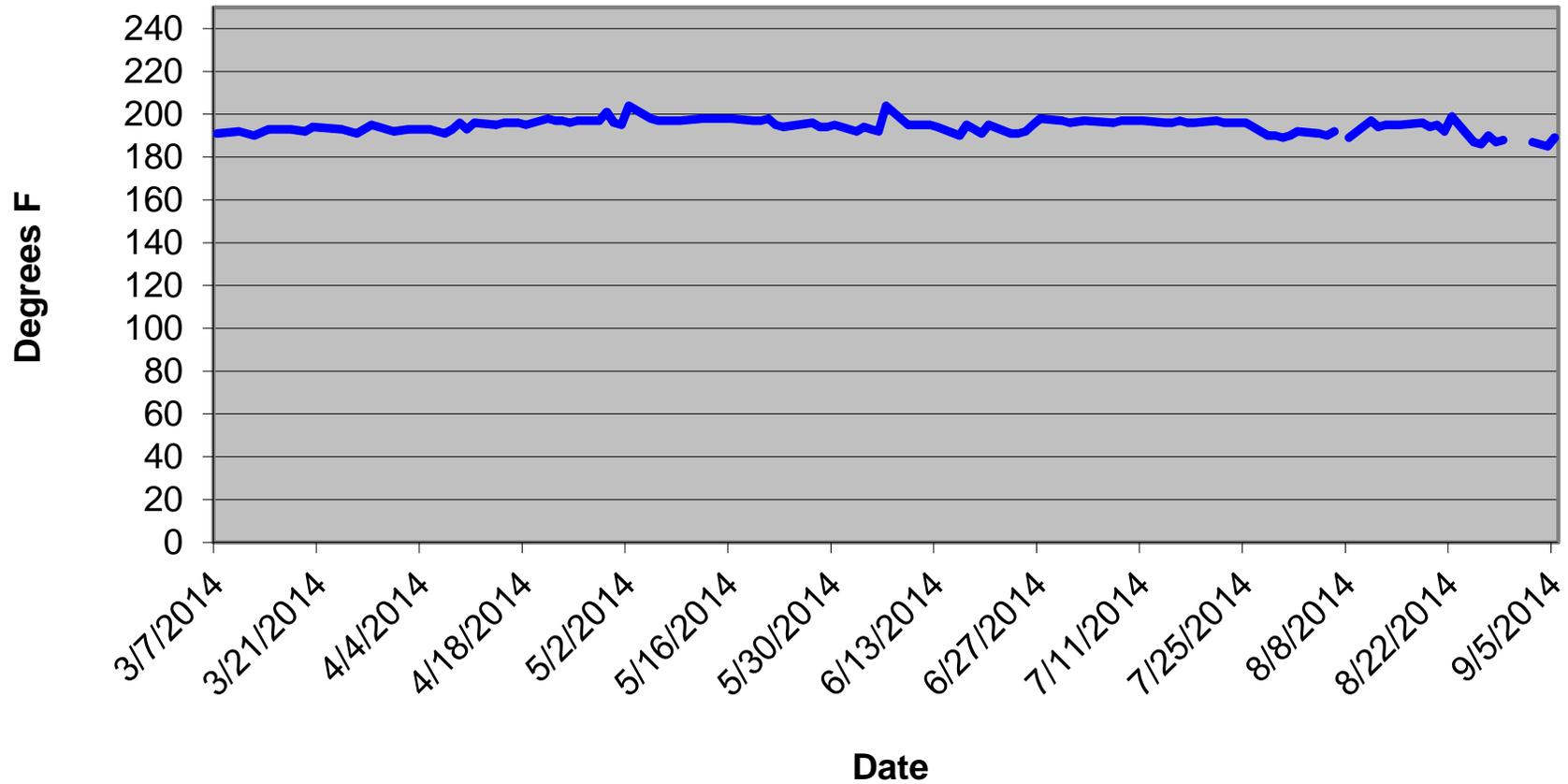
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**ATTACHMENT C**

**GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS**

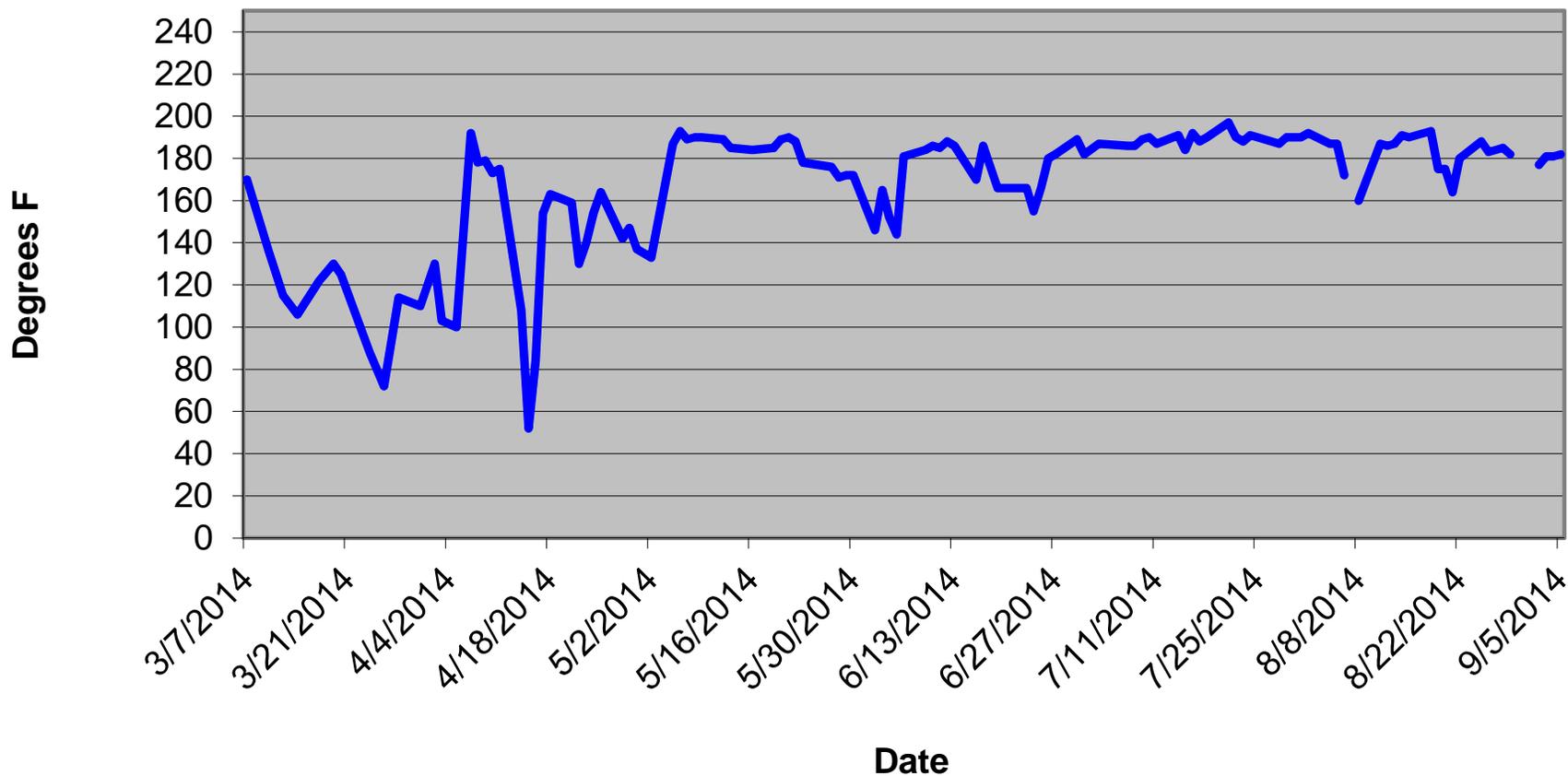
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### GIW-1 Wellhead Temperatures



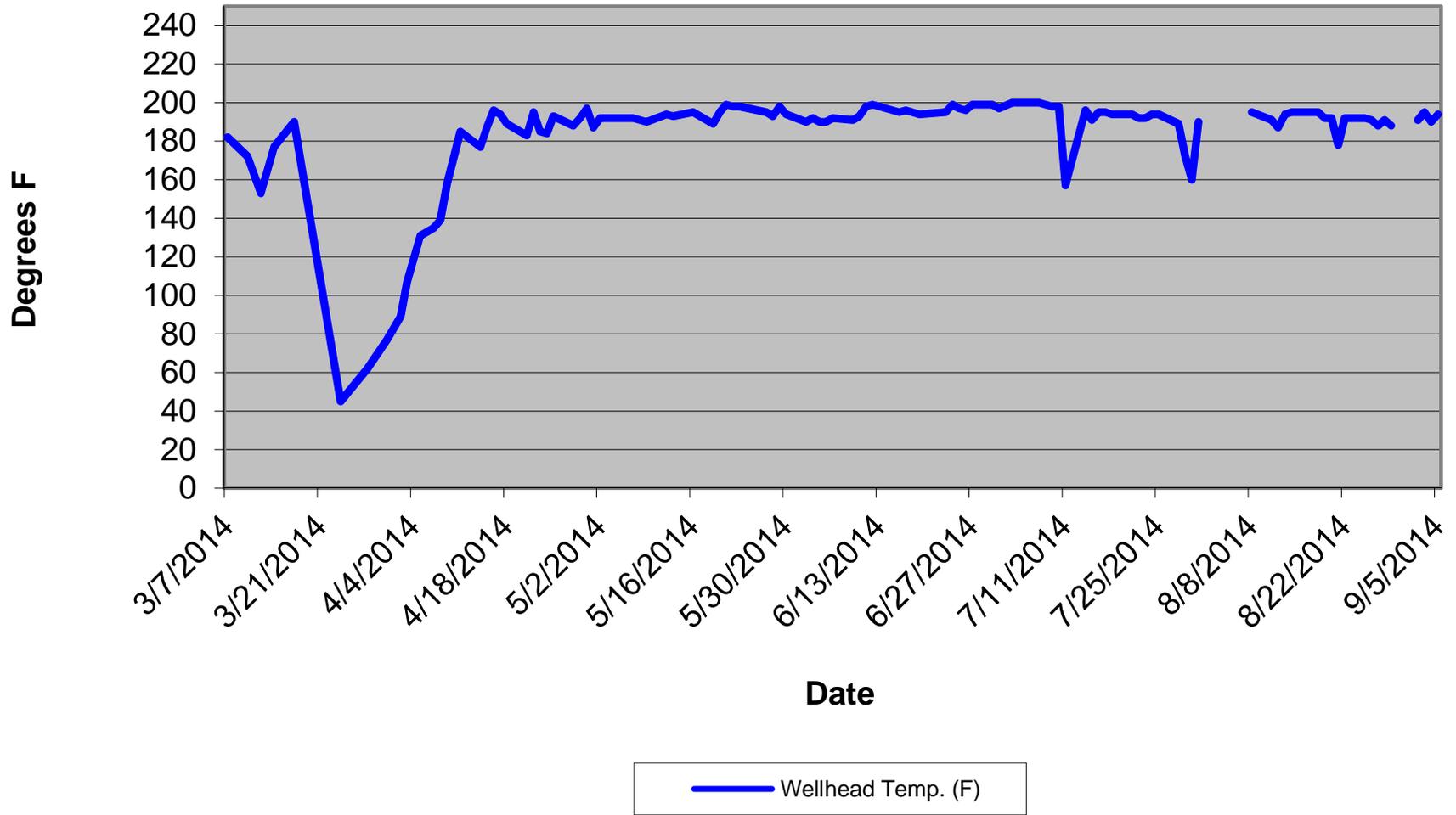
Wellhead Temp. (F)

### GIW-2 Wellhead Temperatures

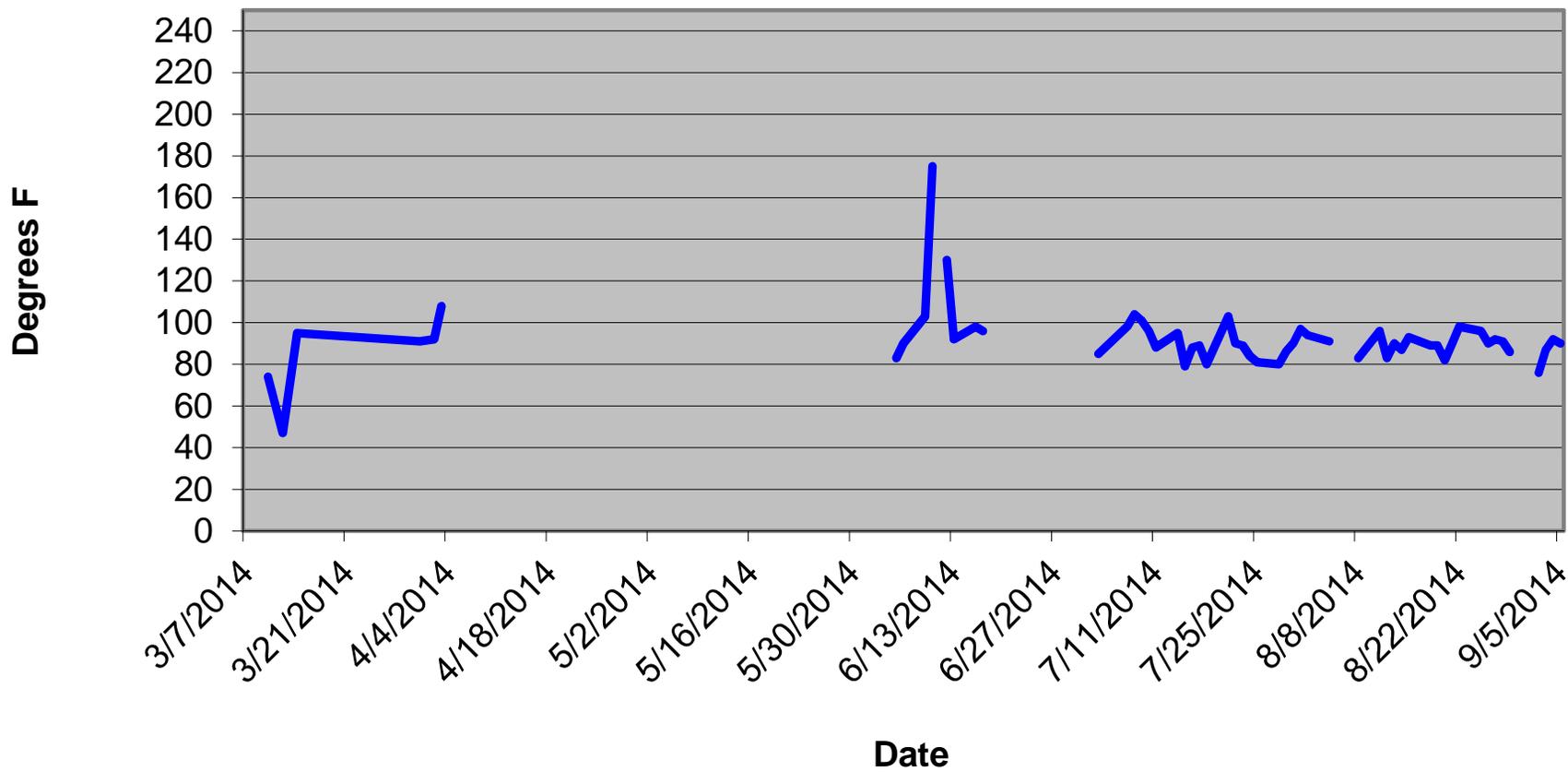


Wellhead Temp. (F)

### GIW-3 Wellhead Temperatures

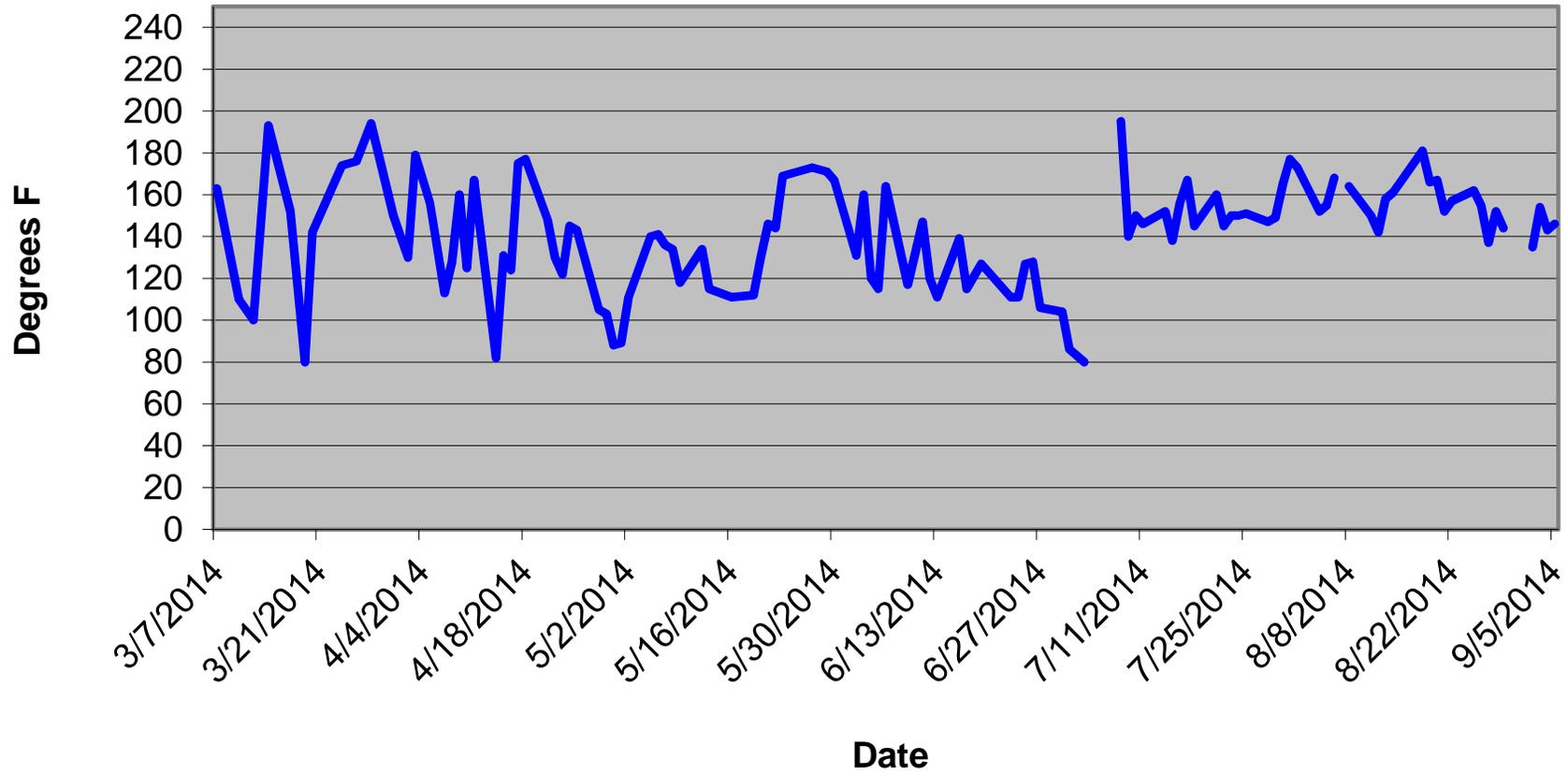


### GIW-4 Wellhead Temperatures



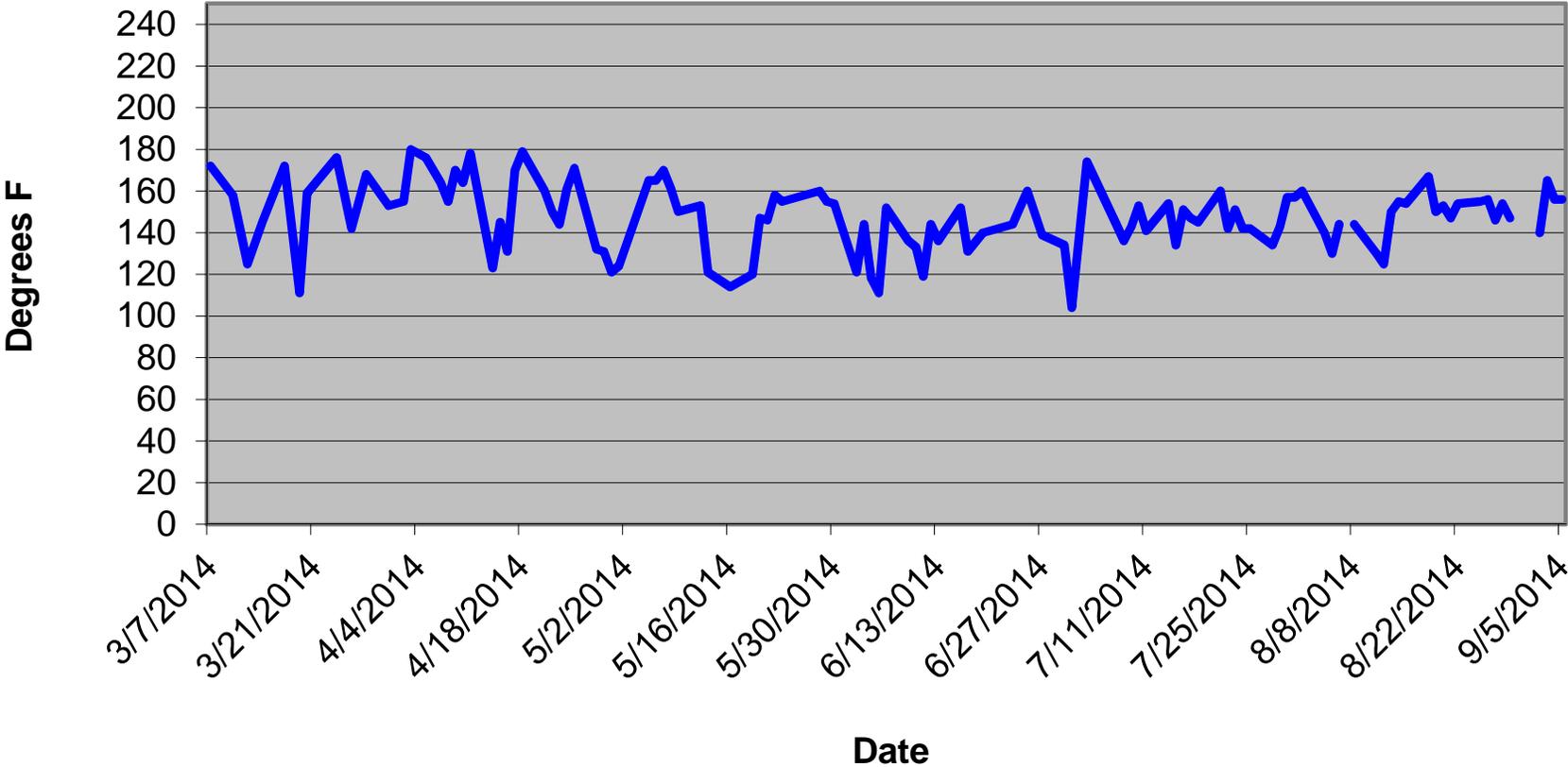
Wellhead Temp. (F)

### GIW-5 Wellhead Temperatures



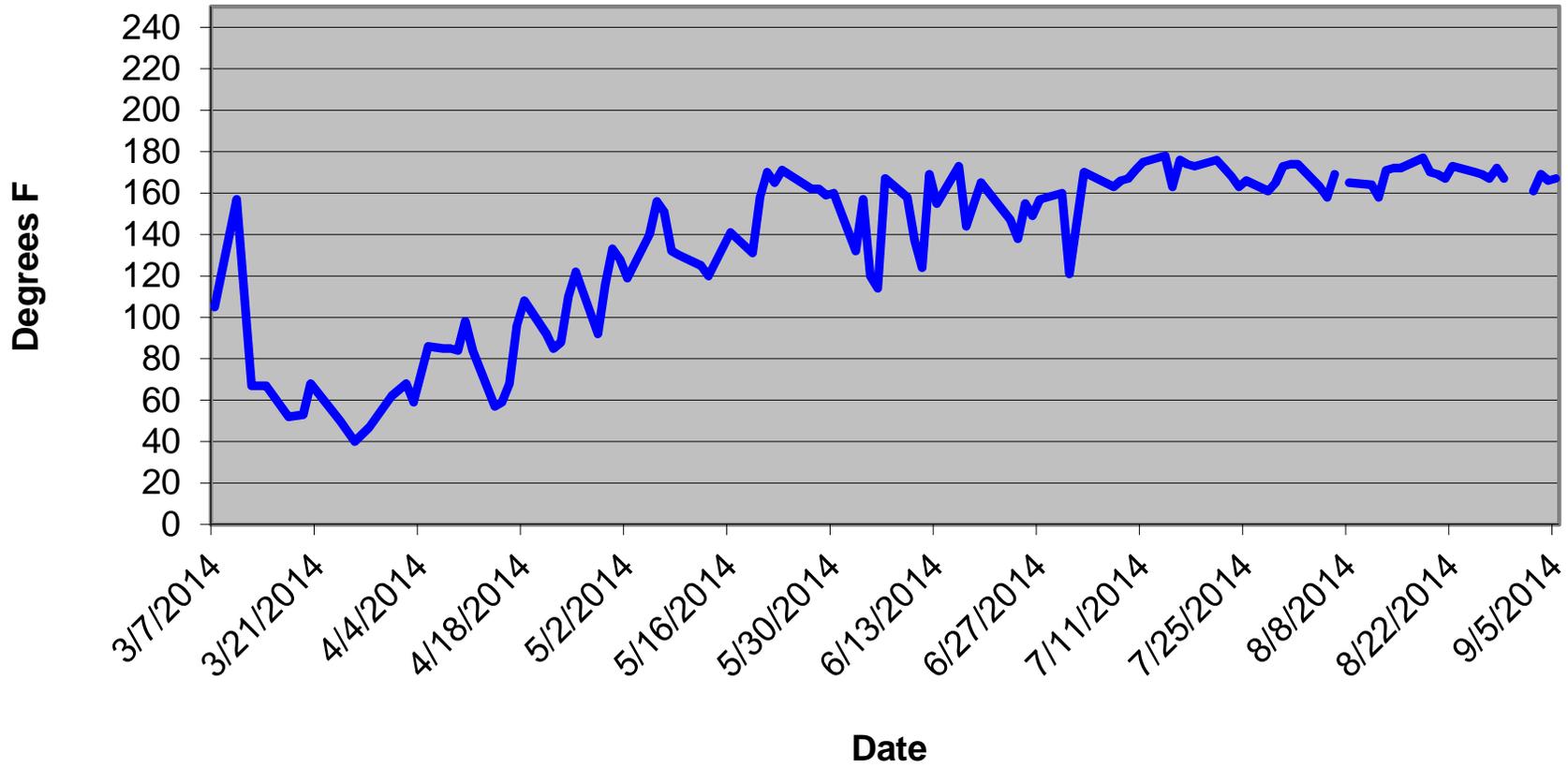
Wellhead Temp. (F)

### GIW-6 Wellhead Temperatures



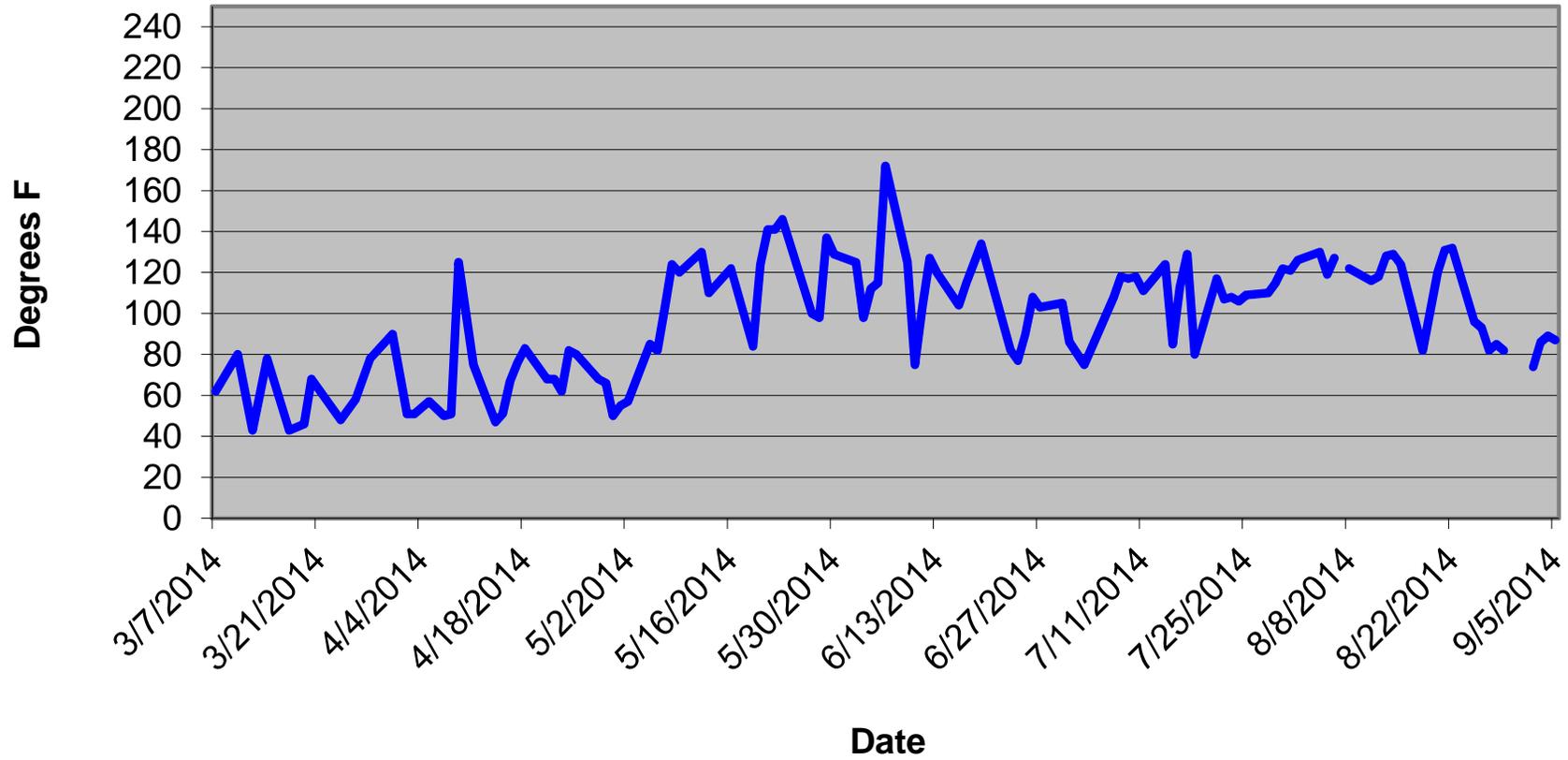
Wellhead Temp. (F)

### GIW-7 Wellhead Temperatures



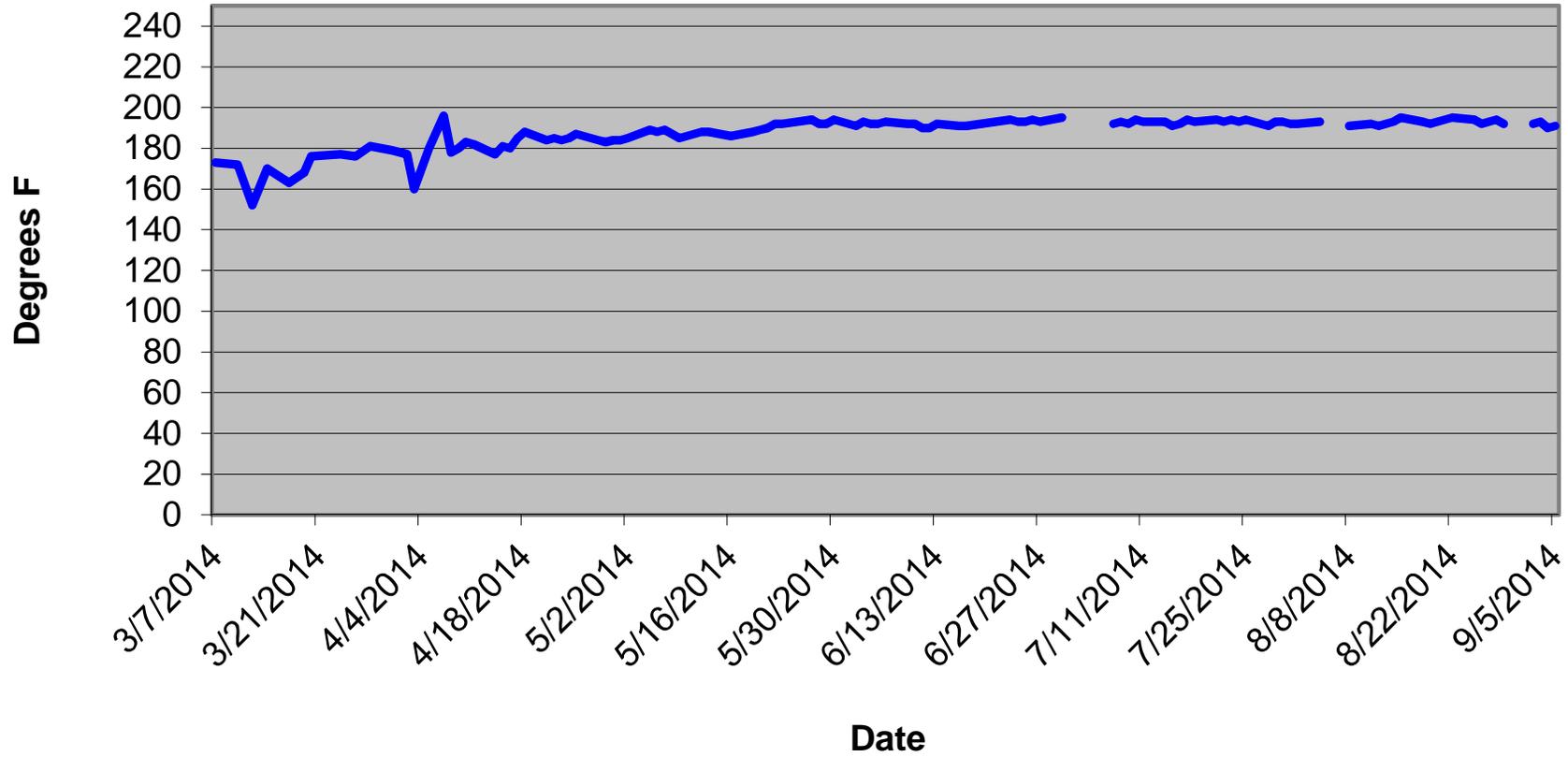
Wellhead Temp. (F)

### GIW-8 Wellhead Temperatures



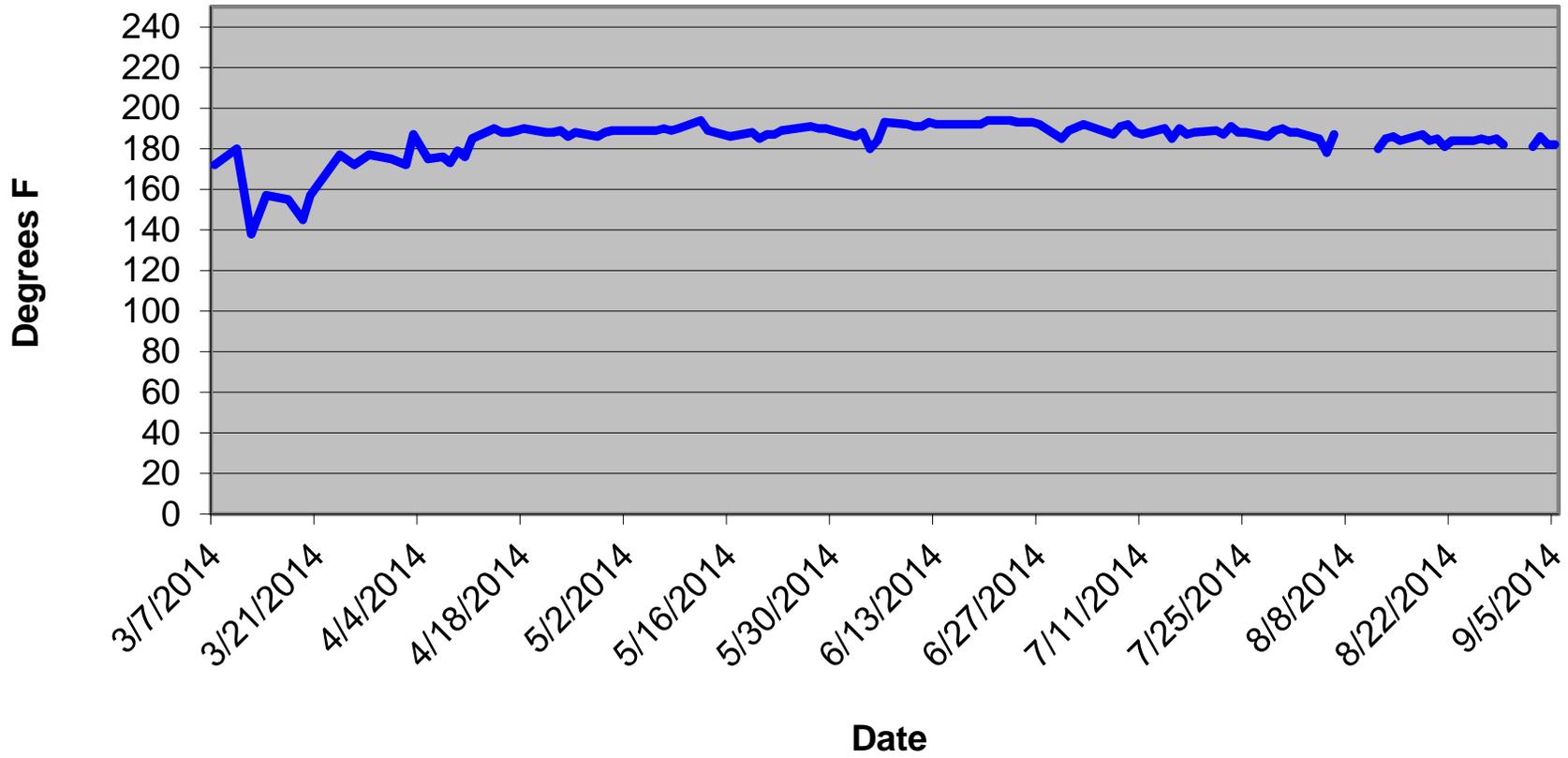
Wellhead Temp. (F)

### GIW-9 Wellhead Temperatures



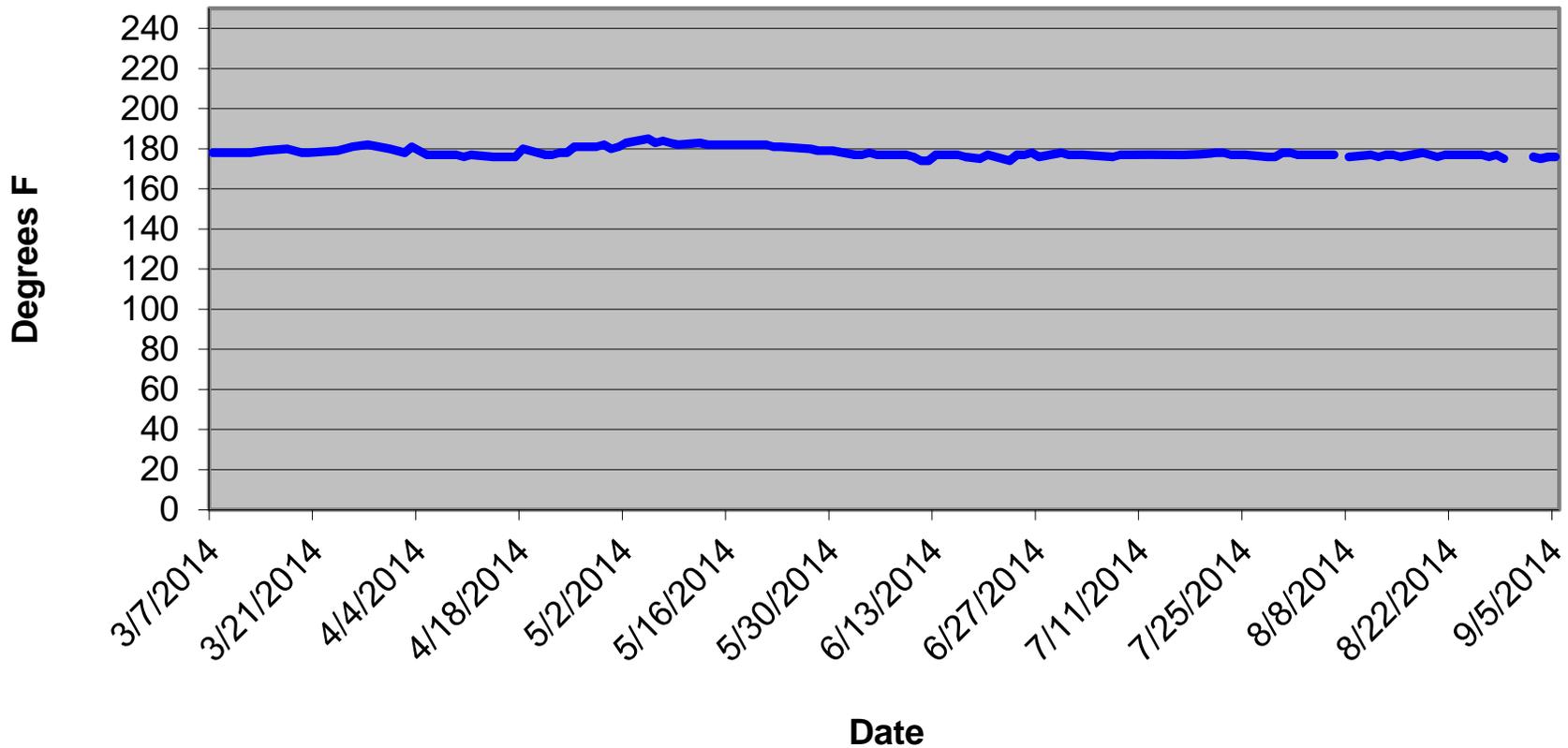
Wellhead Temp. (F)

### GIW-10 Wellhead Temperatures



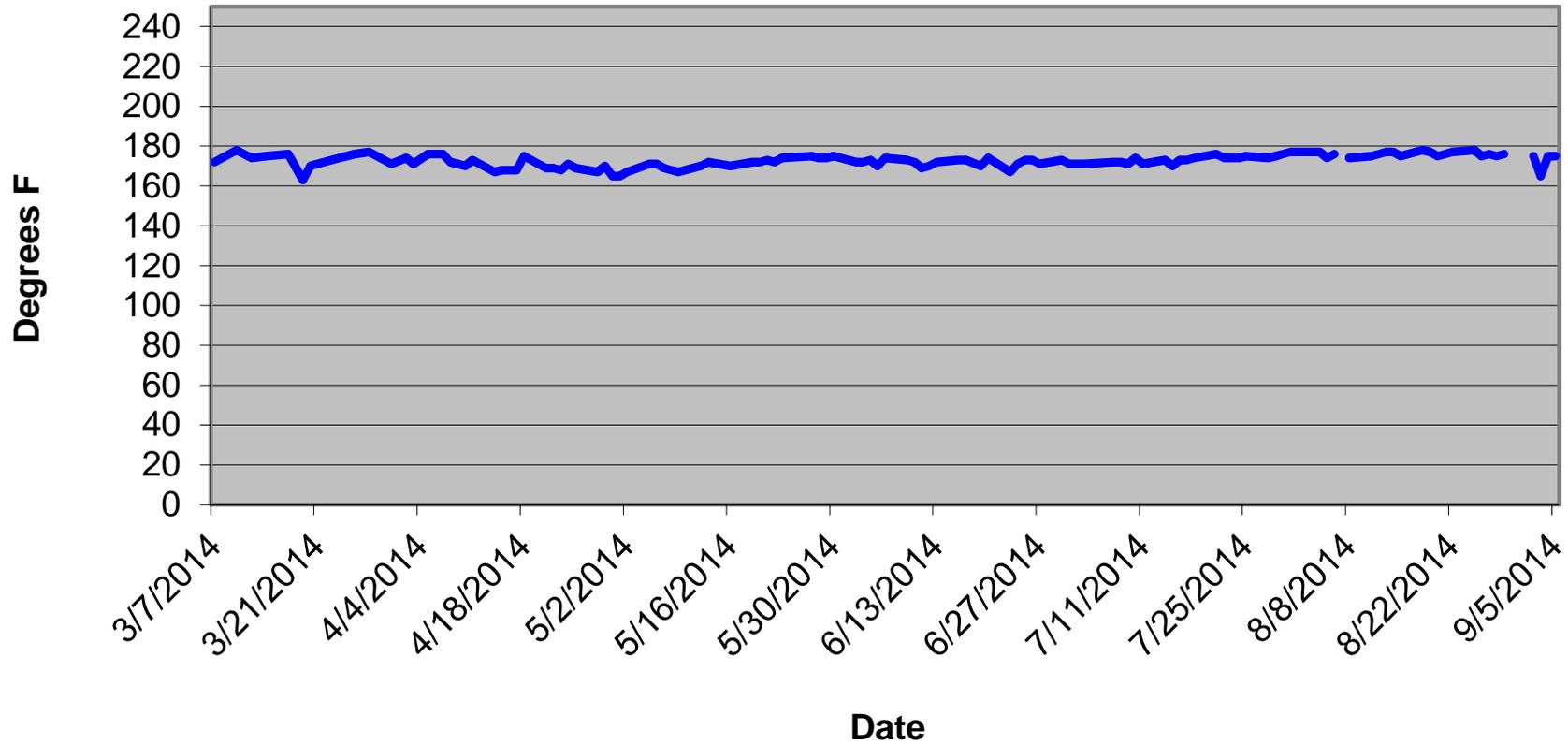
Wellhead Temp. (F)

### GIW-11 Wellhead Temperatures



Wellhead Temp. (F)

### GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

### GIW-13 Wellhead Temperatures

