

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**

April 8, 2014

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

LCS -2,-3D -5, -6 were 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. The option of utilizing a progressive-cavity pump at this location is being evaluated.

The transducer in LCS-3D is not currently working. Measurement devices are currently being evaluated for use in LCS-3D and -1.

Repairs for LCS-1 are scheduled to be completed in April.

Temperature Monitoring Probe Analytical Charts

The following TMPs indicated consistent or lower temperature profiles than previous week(s): TMP-1,-2,-3,-4,-6,-7R,-8, -9, -10, and -12.

TMP-11 and -14 have shown slightly higher temperatures recently at shallow depths from the surface. The higher temperatures at these locations are scheduled for evaluation. The evaluation will include conductivity measurements of suspect points with adjacent thermocouple wires and direct measurements of respective thermocouple wires. These readings appear to be irregular compared with readings at lower elevations in the same monitoring probe and with historic profiles at the facility. The thermocouple at 35 ft. of TMP-12 will be included in this evaluation.

Irregular resistivity readings appear to be attributed to the irregular resistivity in the thermocouples. This is prevalent at multiple depths at TMP-5 and -13. Consistent with MDNR's direction, the weekly reports exclude data that is not validated. Because TMP-5 and -13 have irregular resistivity at multiple depths recently, therefore these charts have not been included. This past week a few data connections at TMP-5 have shown more reasonable resistivity than previously measured. These ports are scheduled for direct evaluation. Once the evaluation has been completed, a determination of the validity of the data will be completed. Pursuant to the evaluation, previous weekly data deemed to be reasonable will be presented.

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.

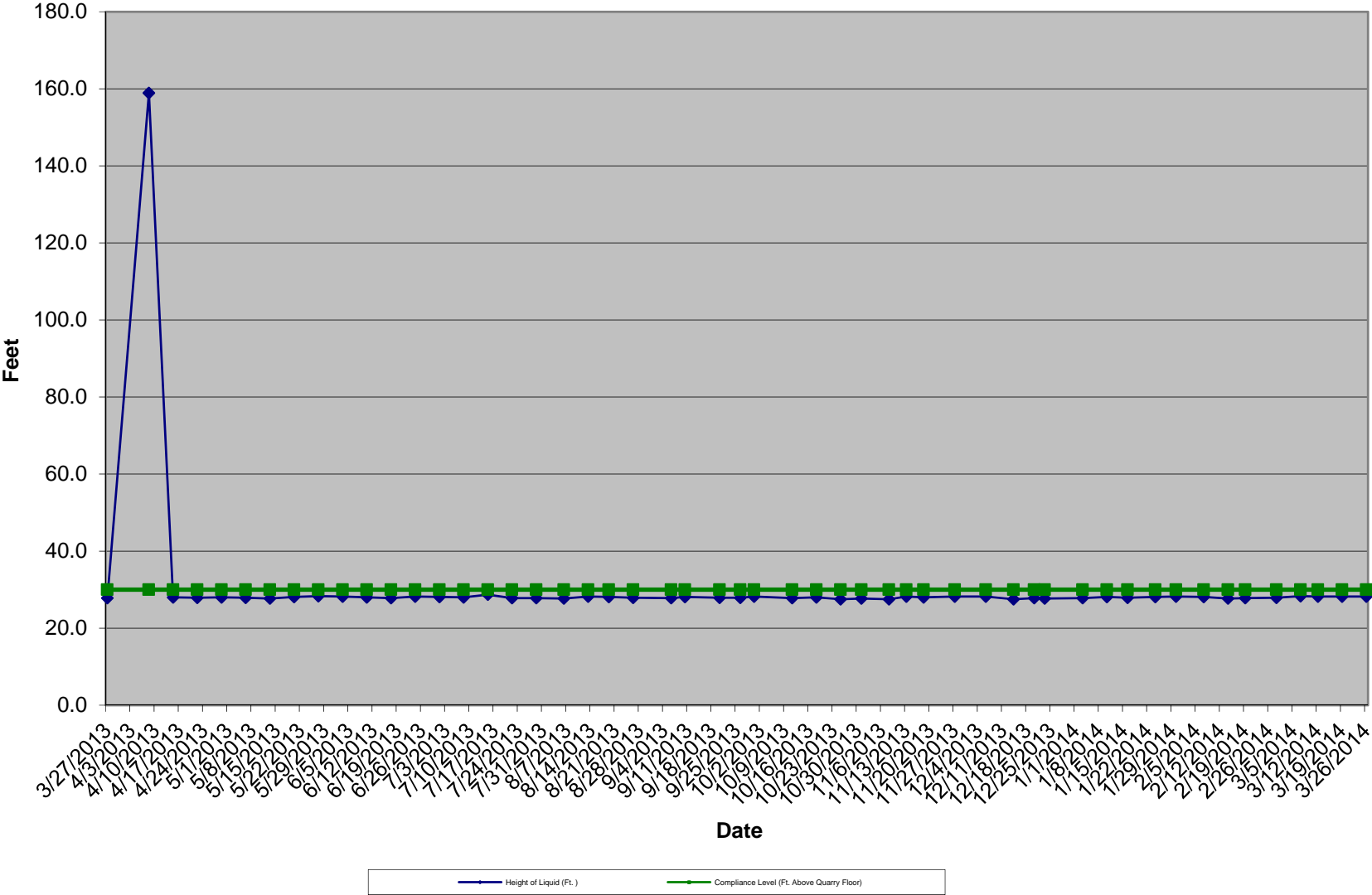
All gas interceptor wells remained relatively consistent or lower with regards to gas wellhead temperature measured at each location. GIW-3 and -8 have shown higher oxygen levels during the recent reporting period. These wells are currently under evaluation. On-going tuning and maintenance is being performed to manage the oxygen content lower. All detected oxygen is currently believed to be a result of recent surface repairs and/or minor cracks or leaks in the above-ground infrastructure.

The water circulation cooling loop is currently installed in GIW-4. The cooling loop was operational for the reporting week and is currently operational.

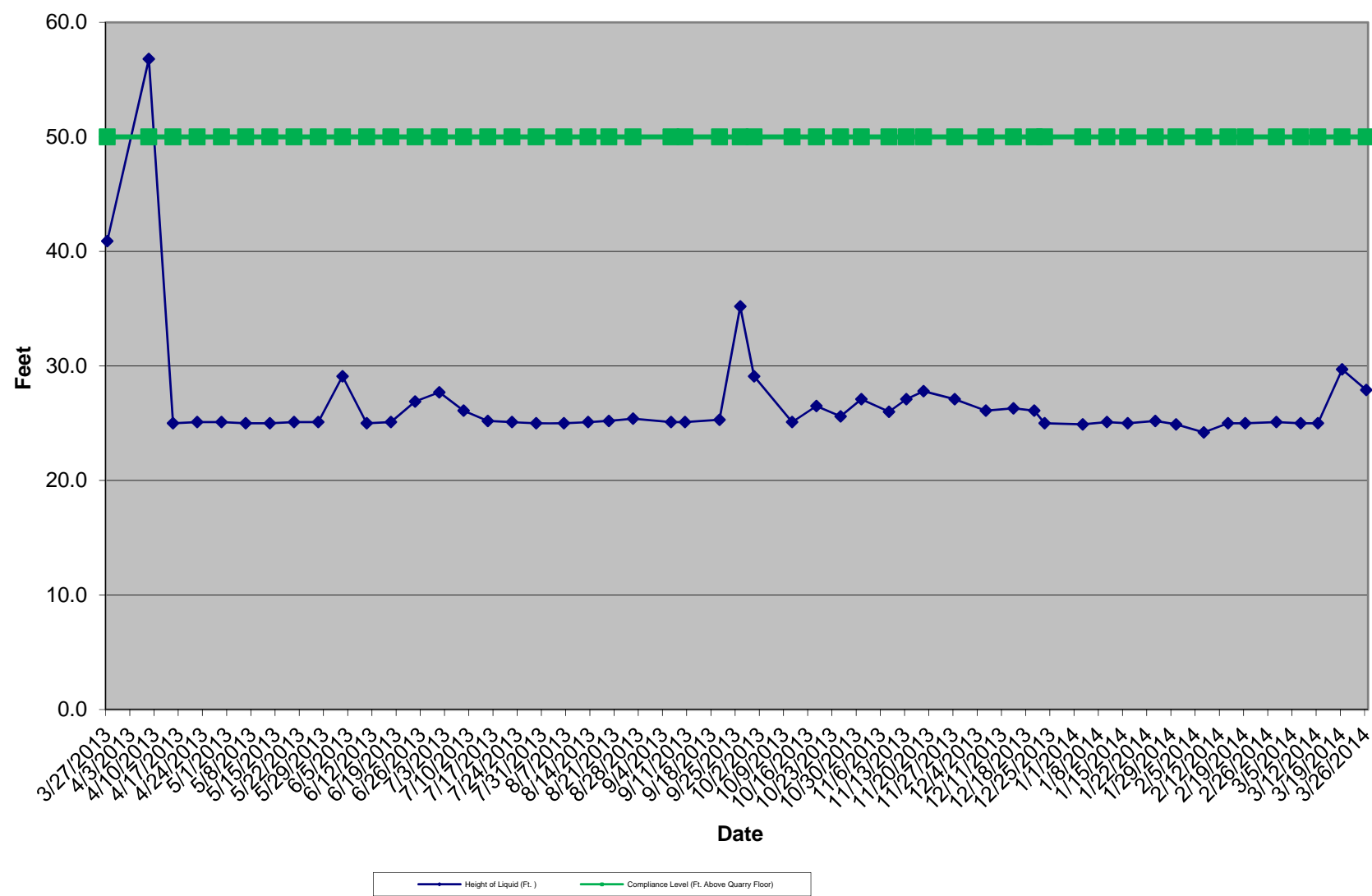
ATTACHMENT A

LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

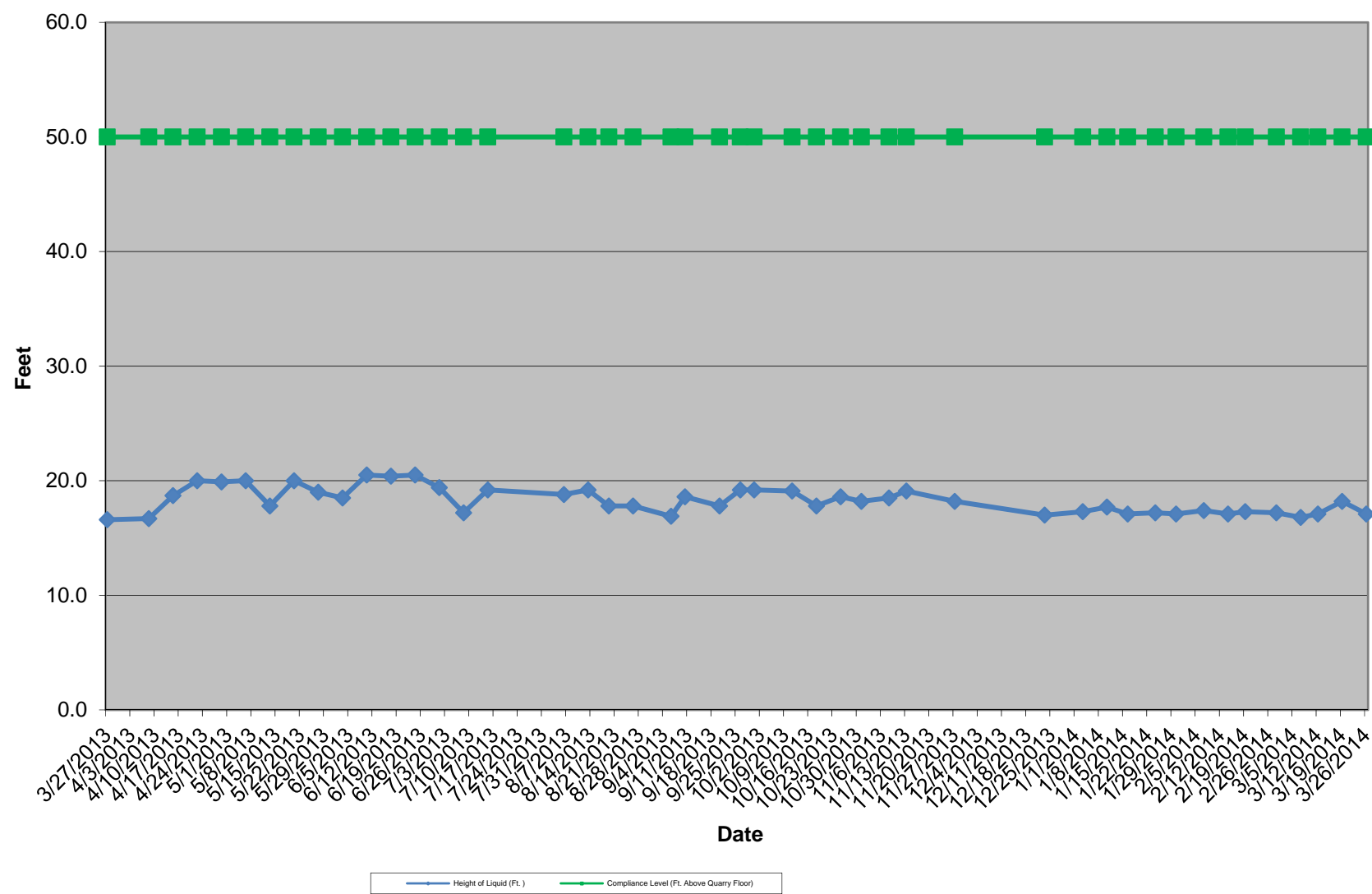
LCS-2D Liquid Level Above Quarry Floor



LCS-5A Liquid Level Above Quarry Floor



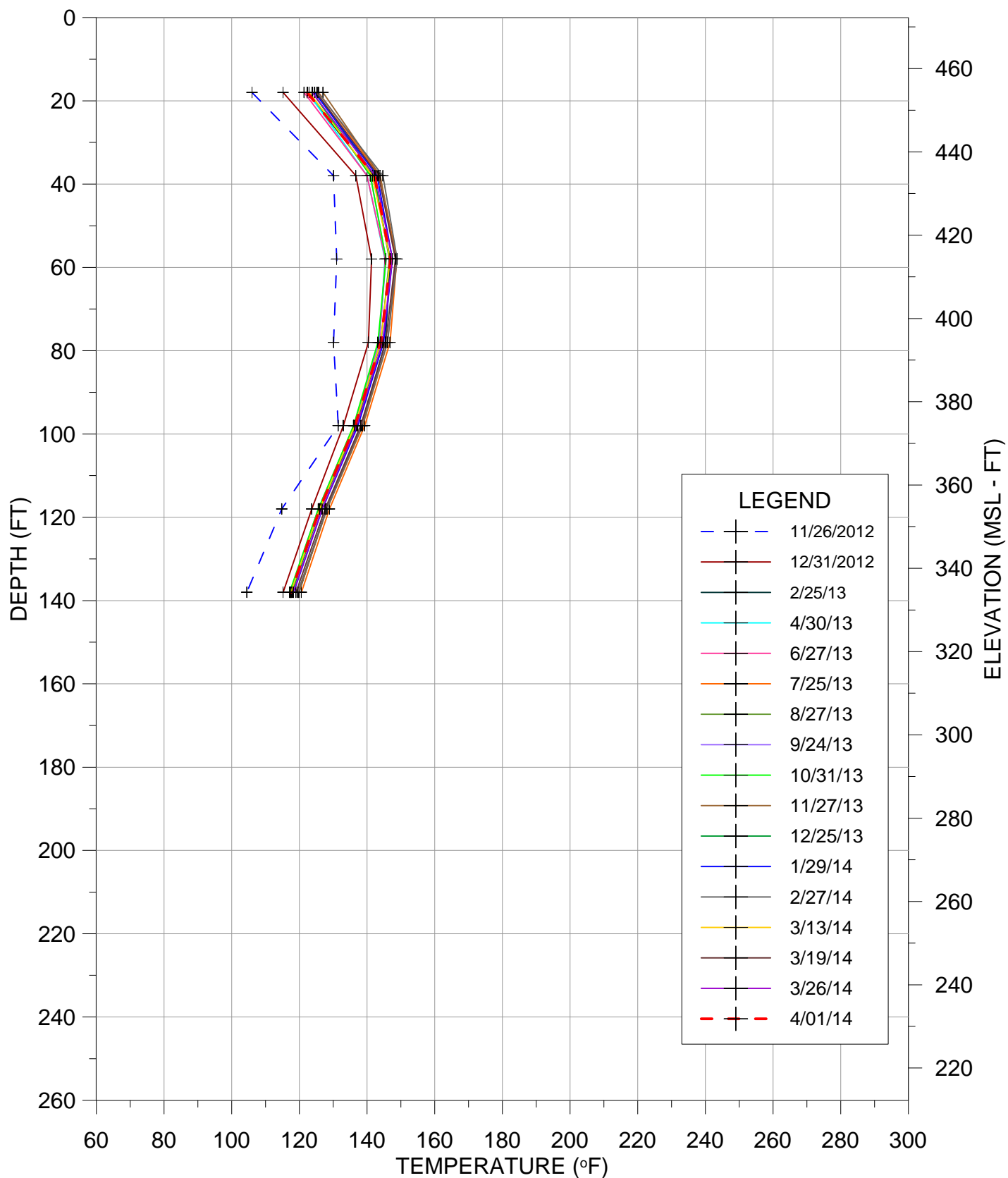
LCS-6B Liquid Level Above Quarry Floor



ATTACHMENT B

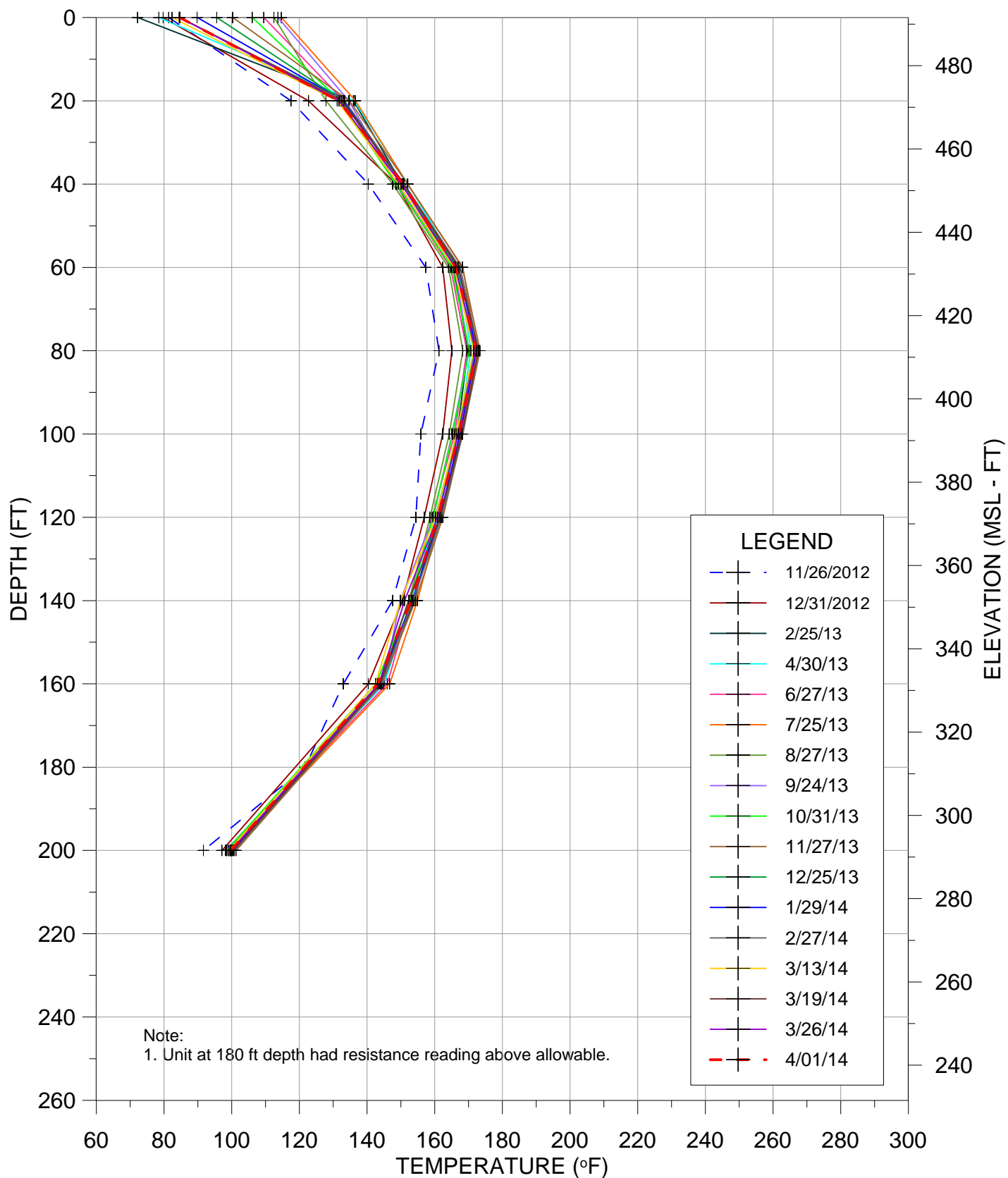
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



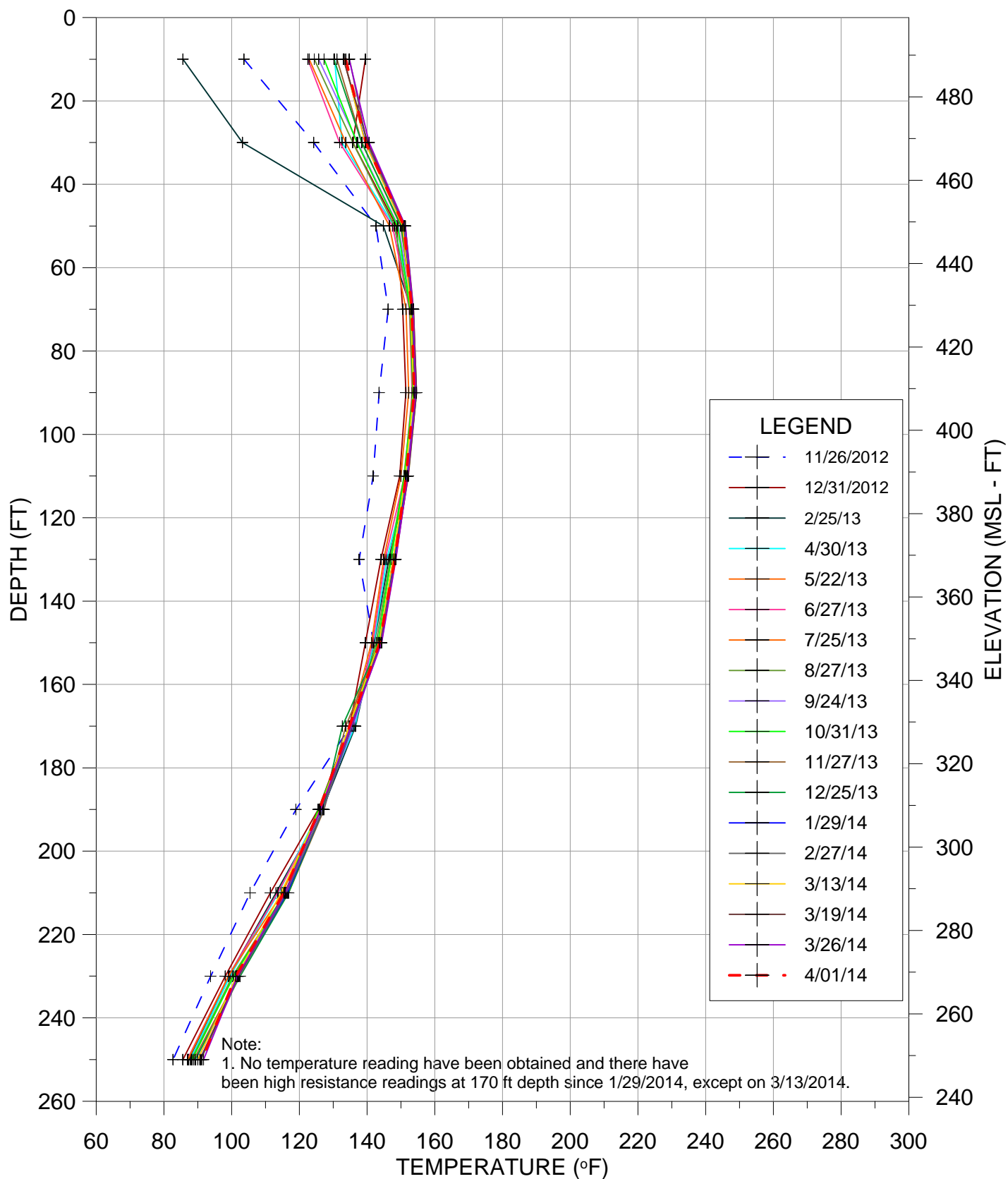
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



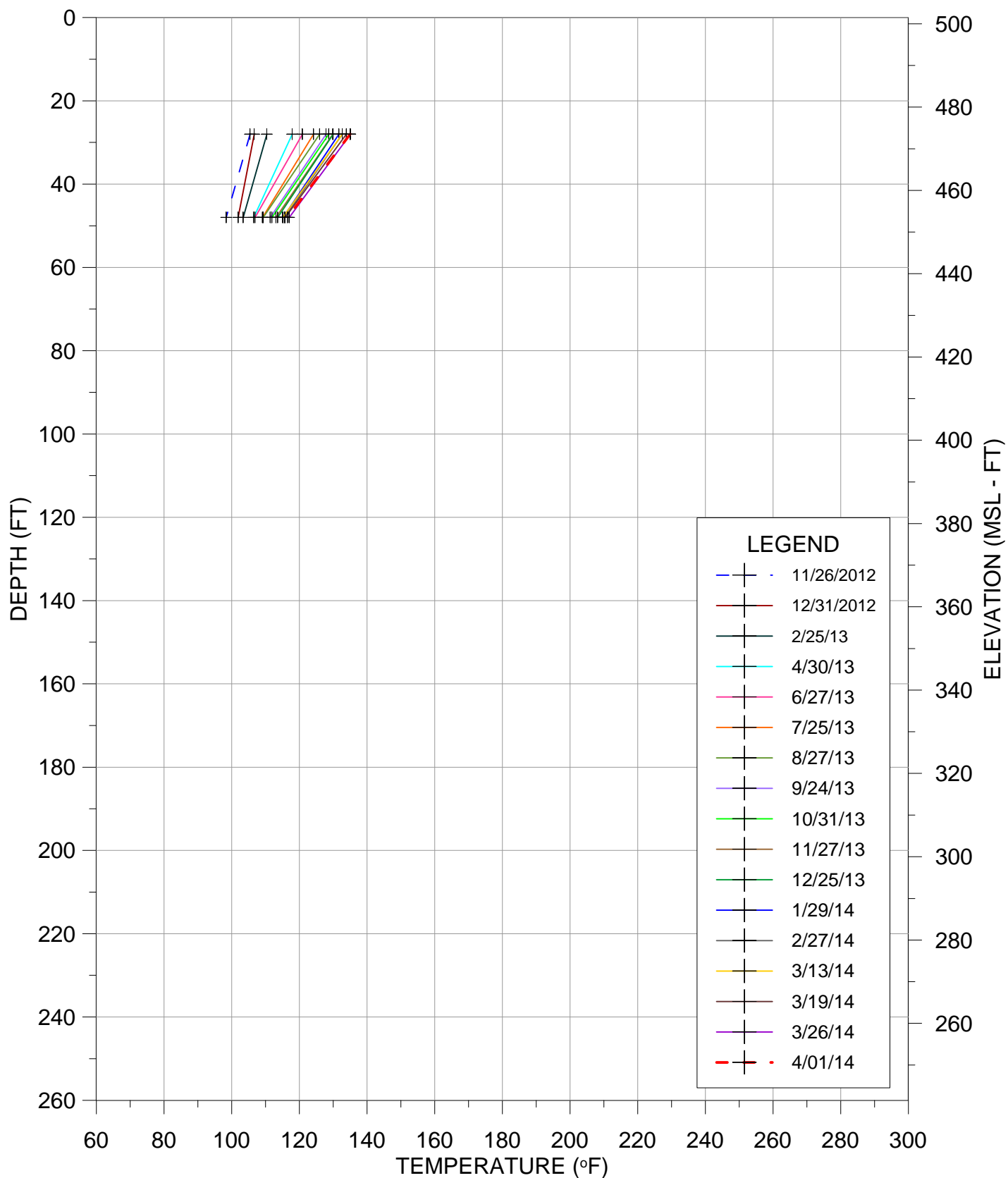
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



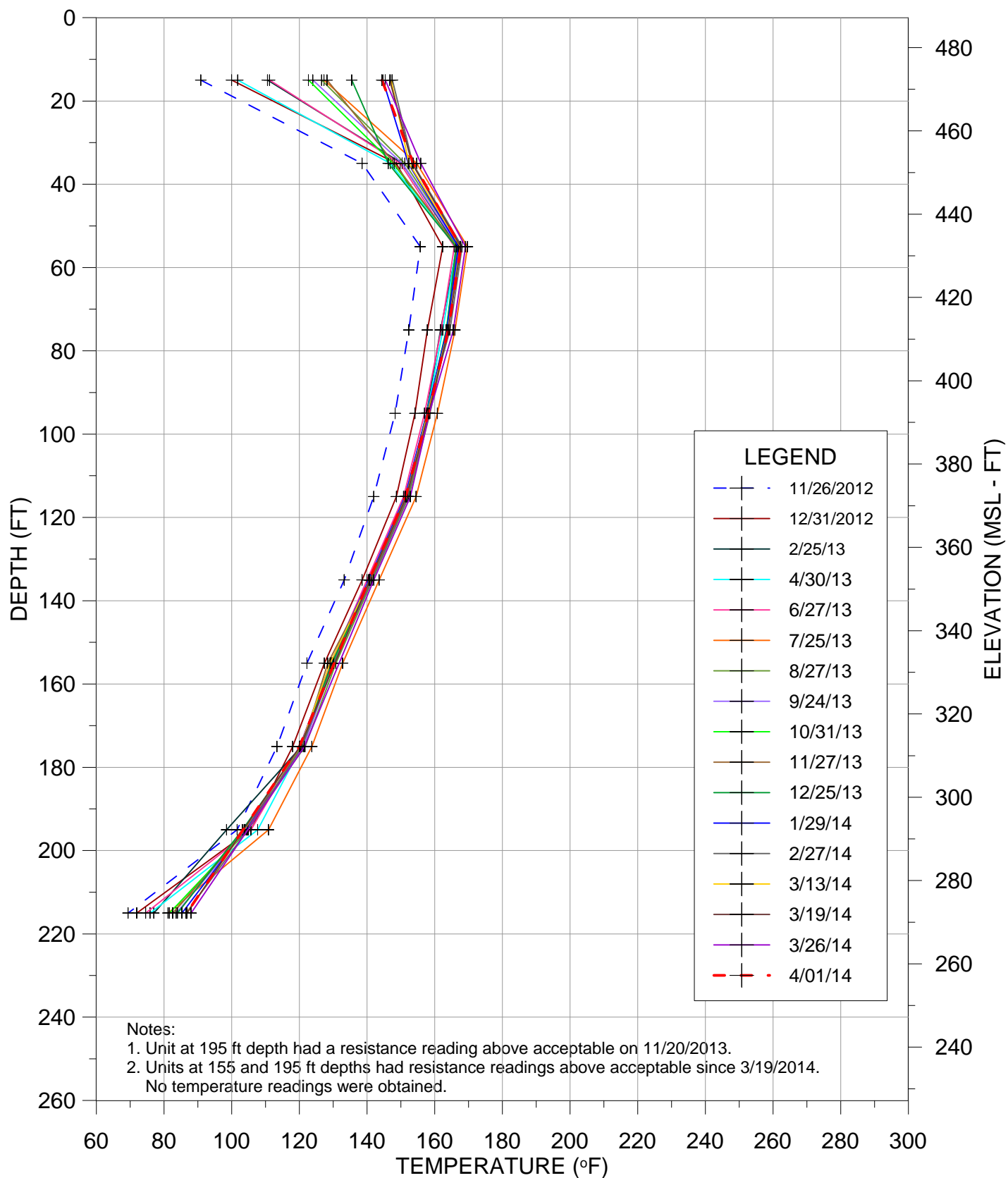
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4

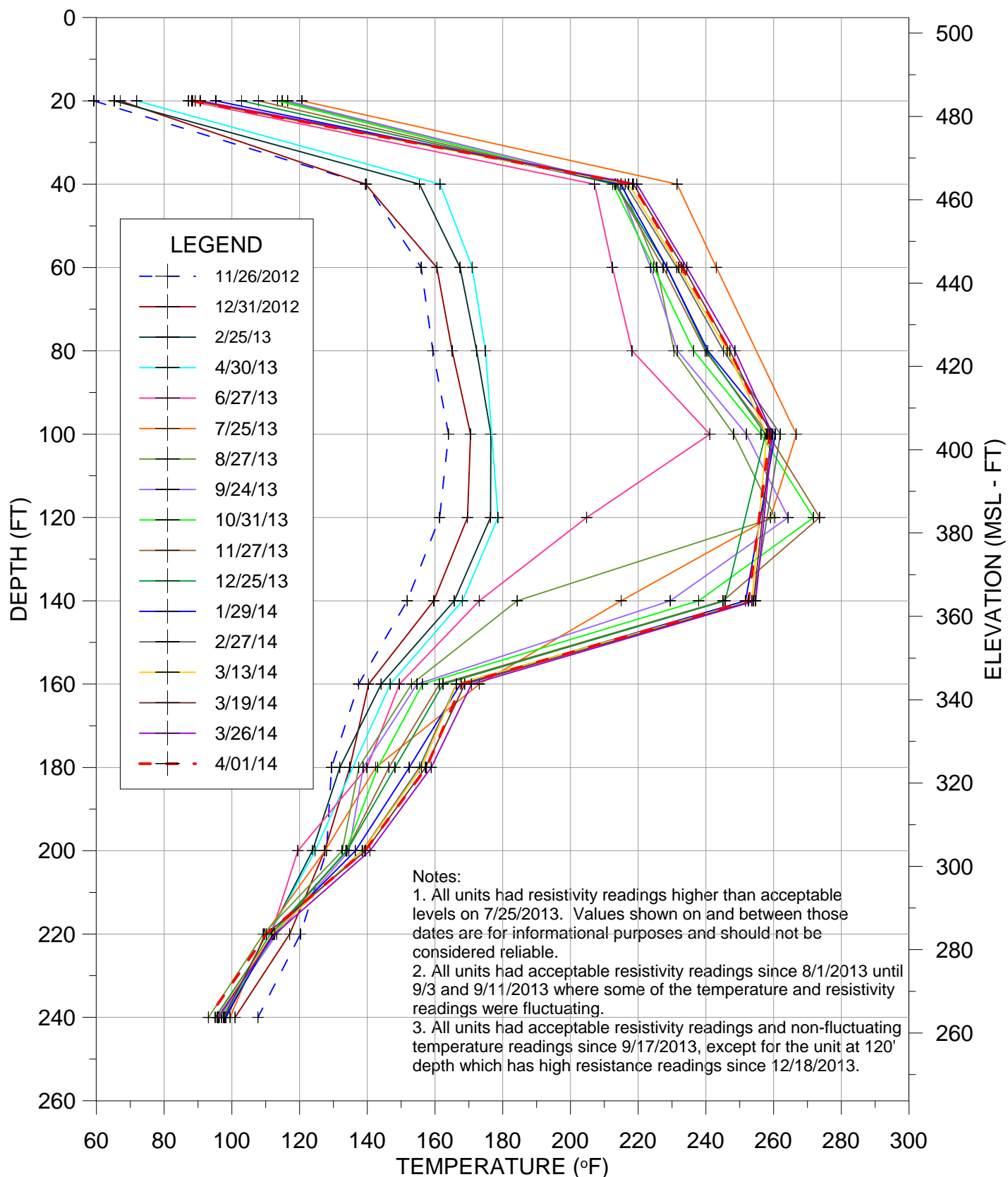


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-6

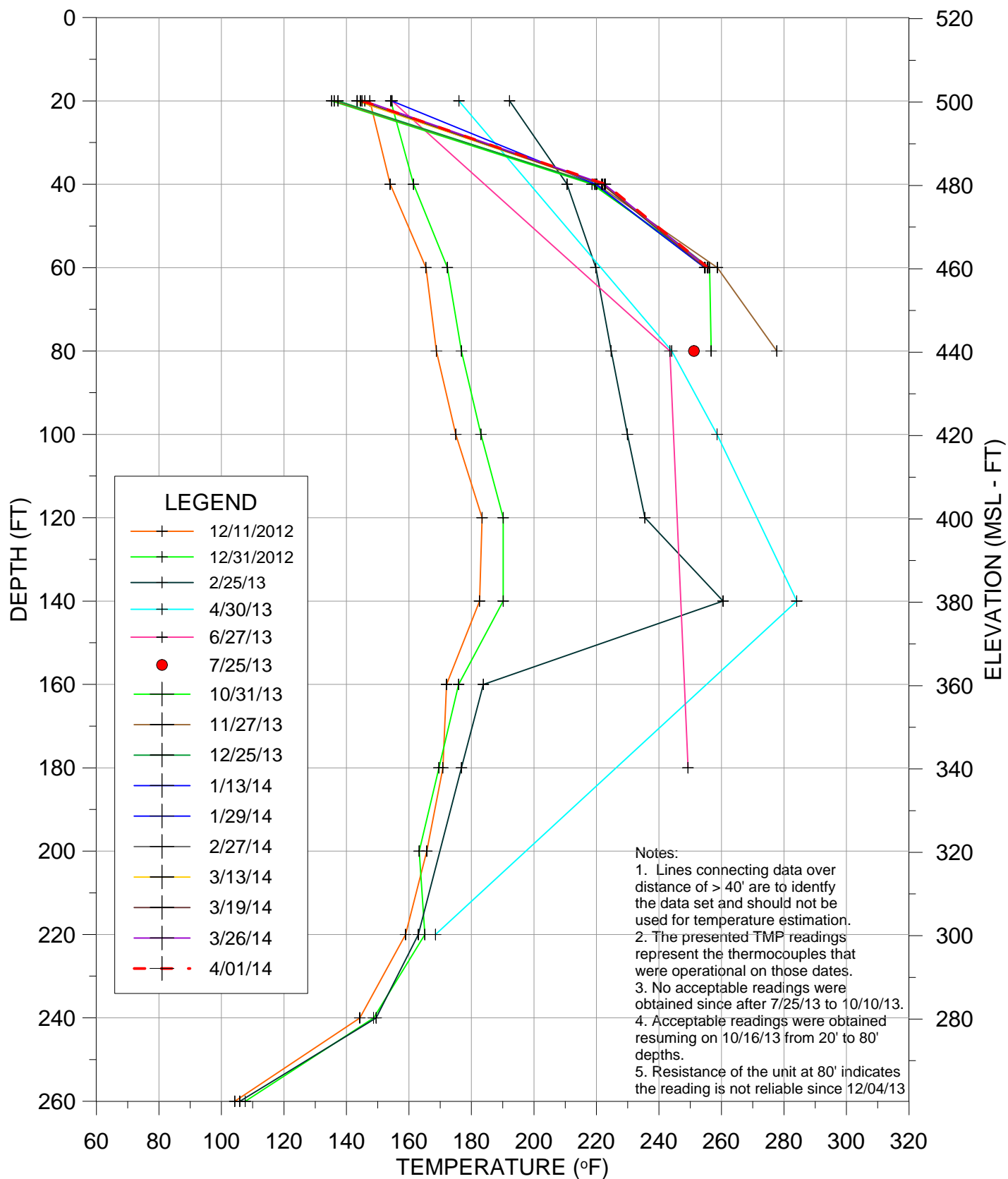


TMP-7R



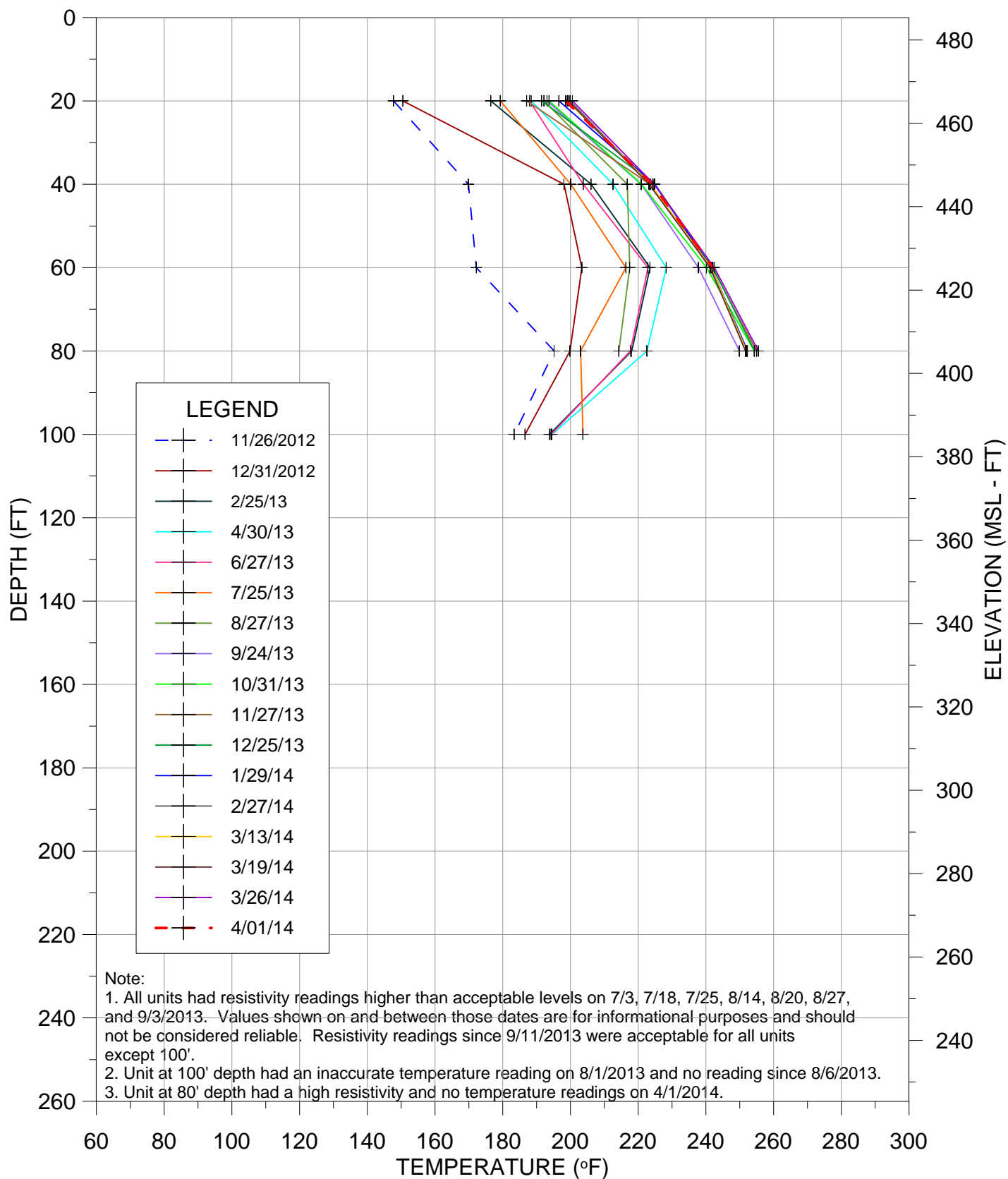
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-8

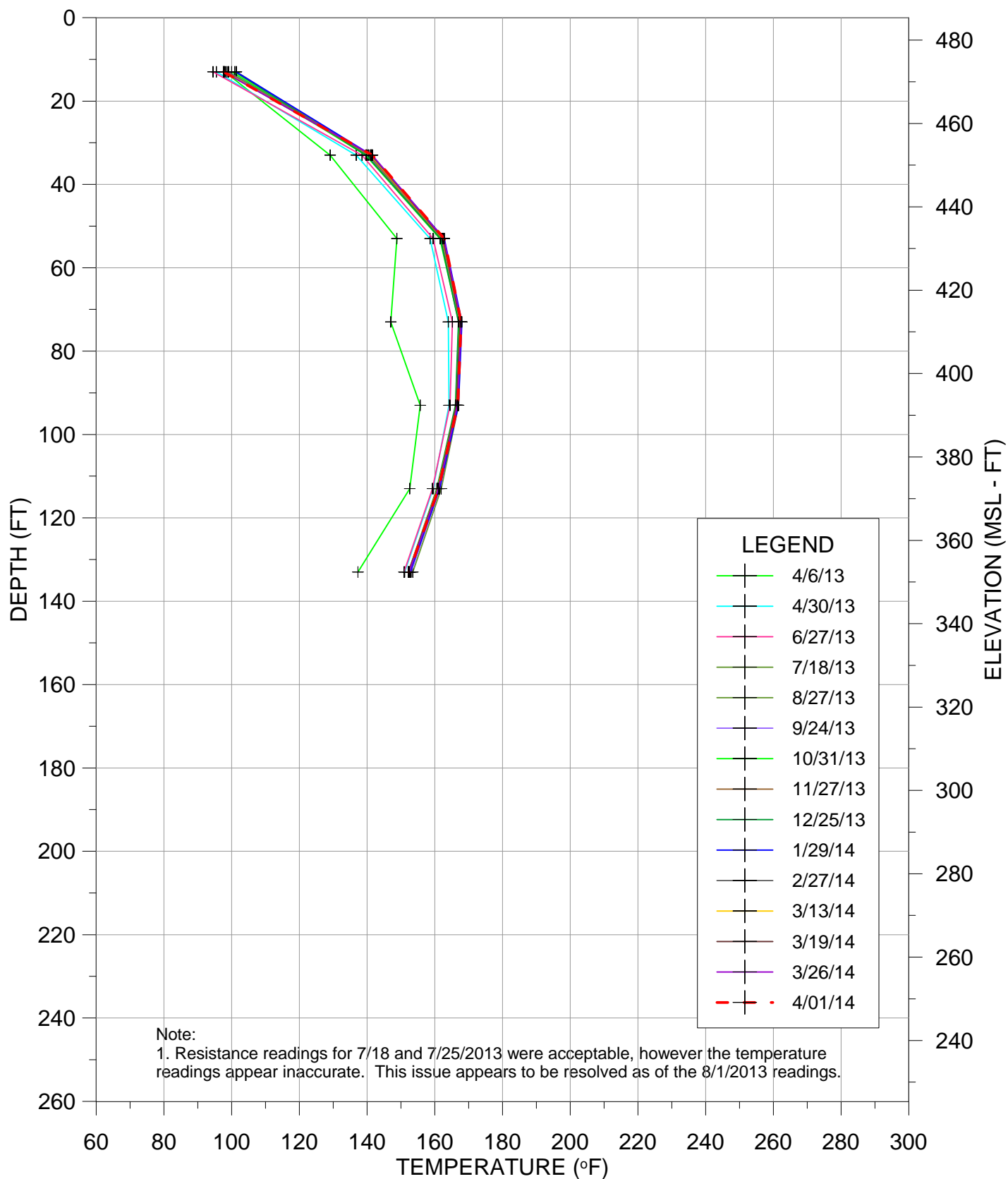


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-9

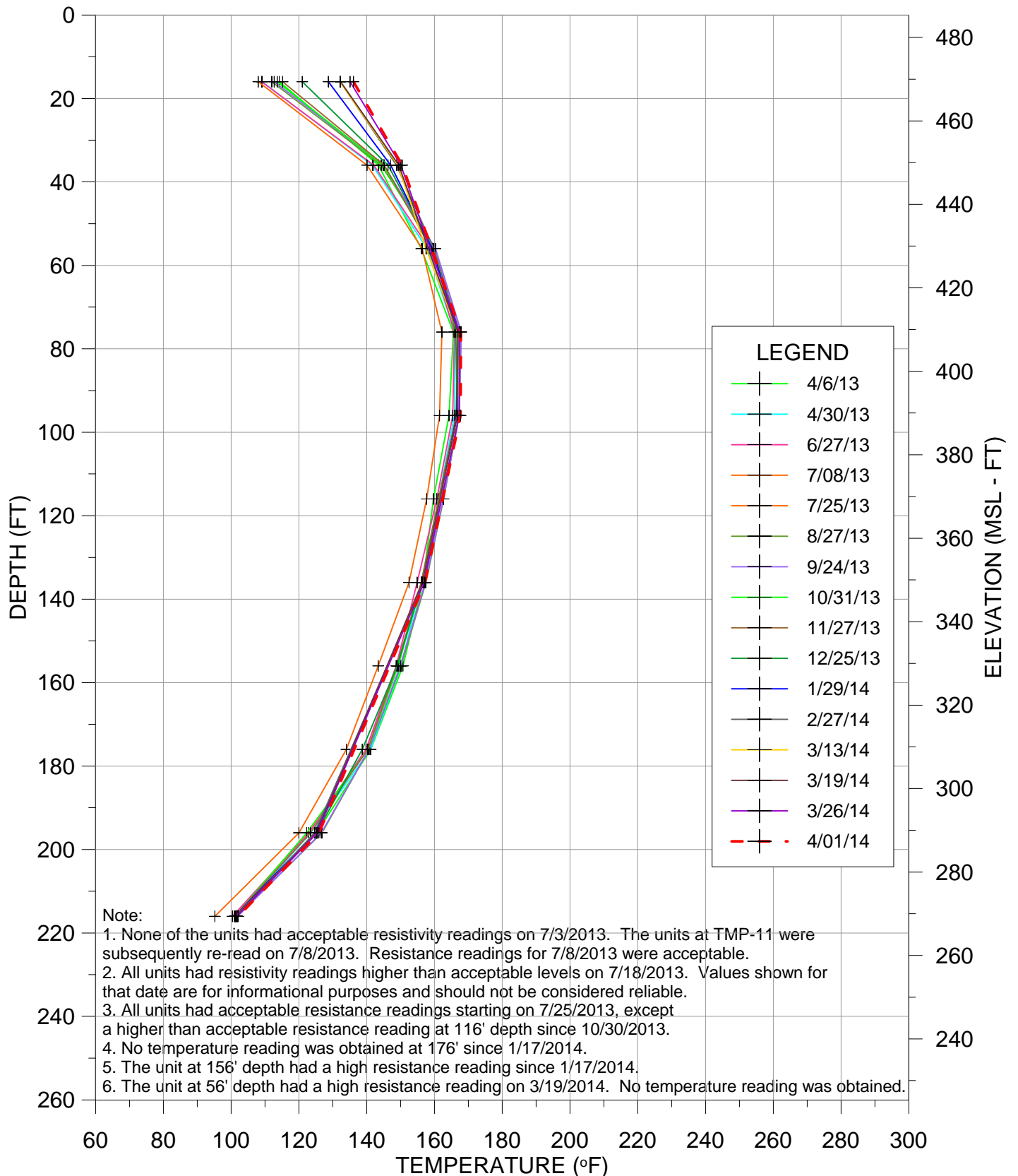


TMP-10

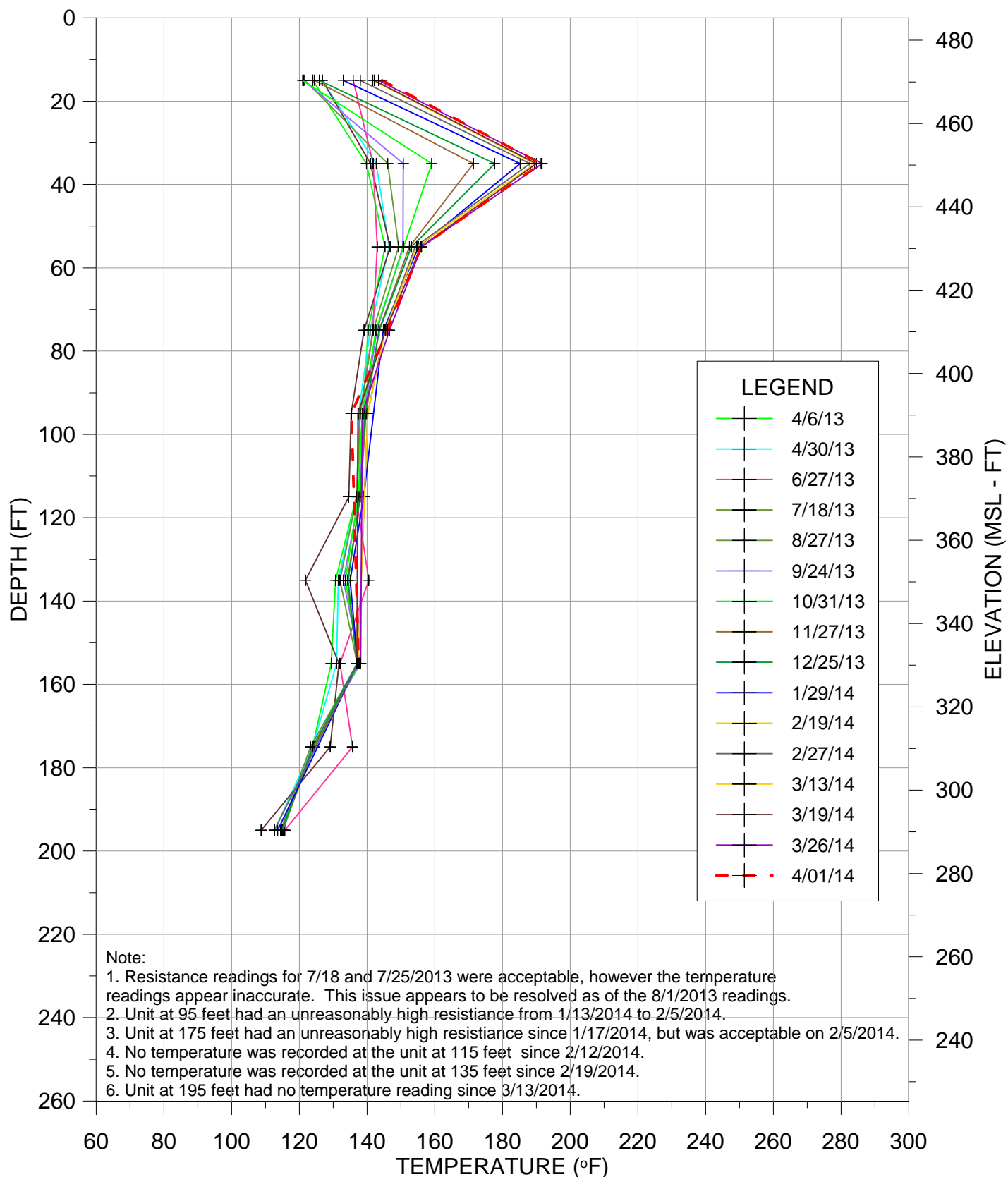


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

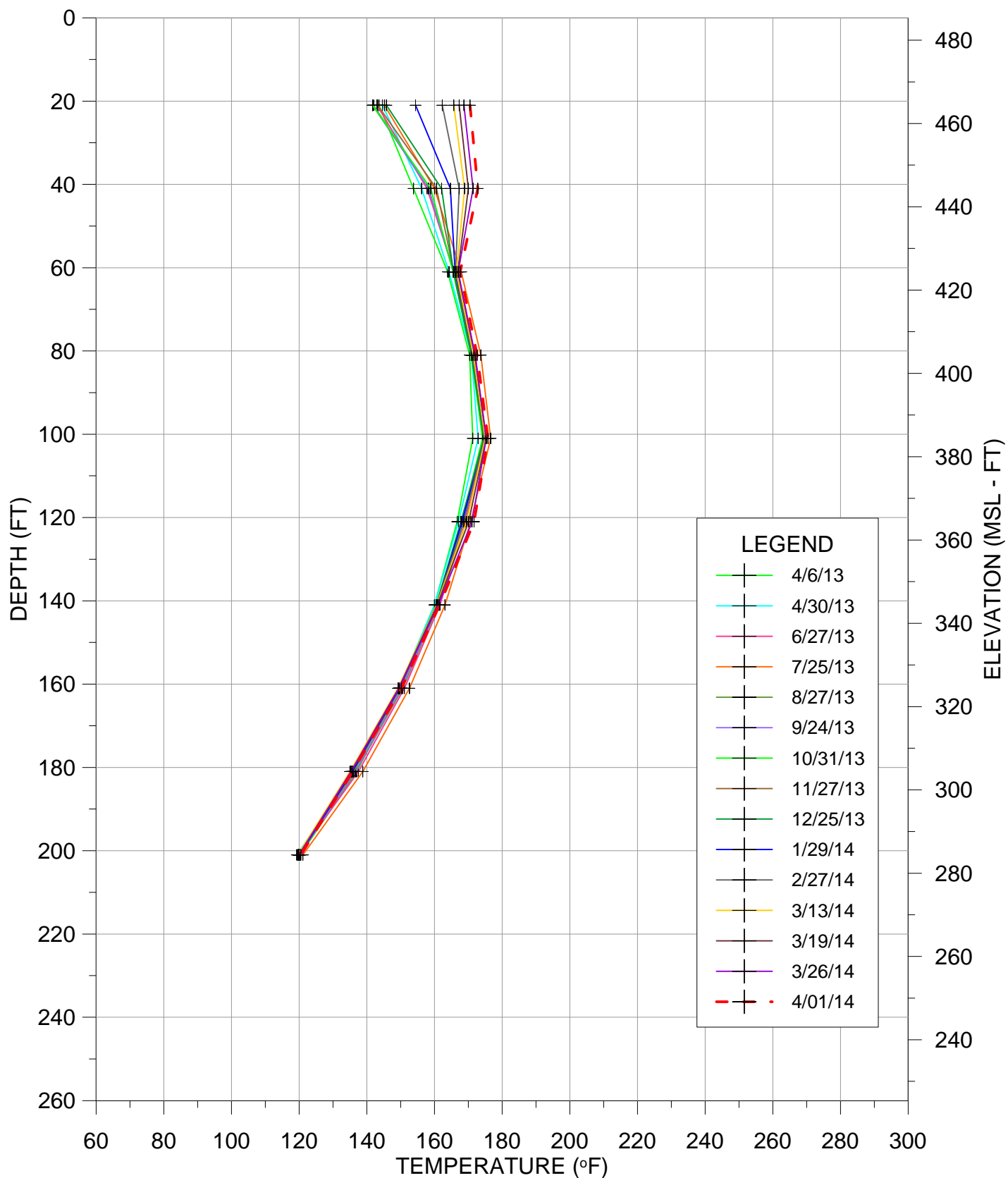
TMP-11



TMP-12

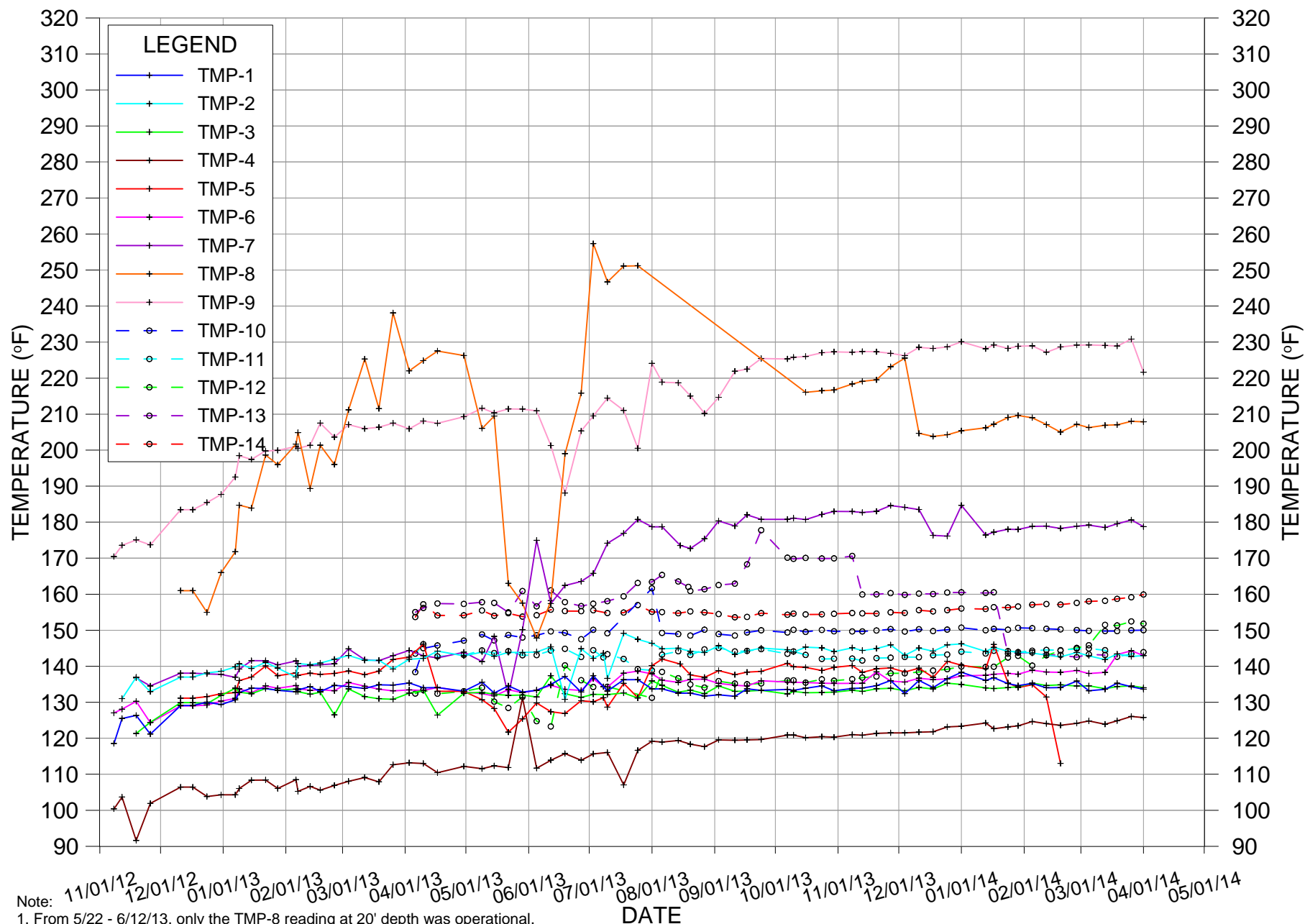


TMP-14



TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

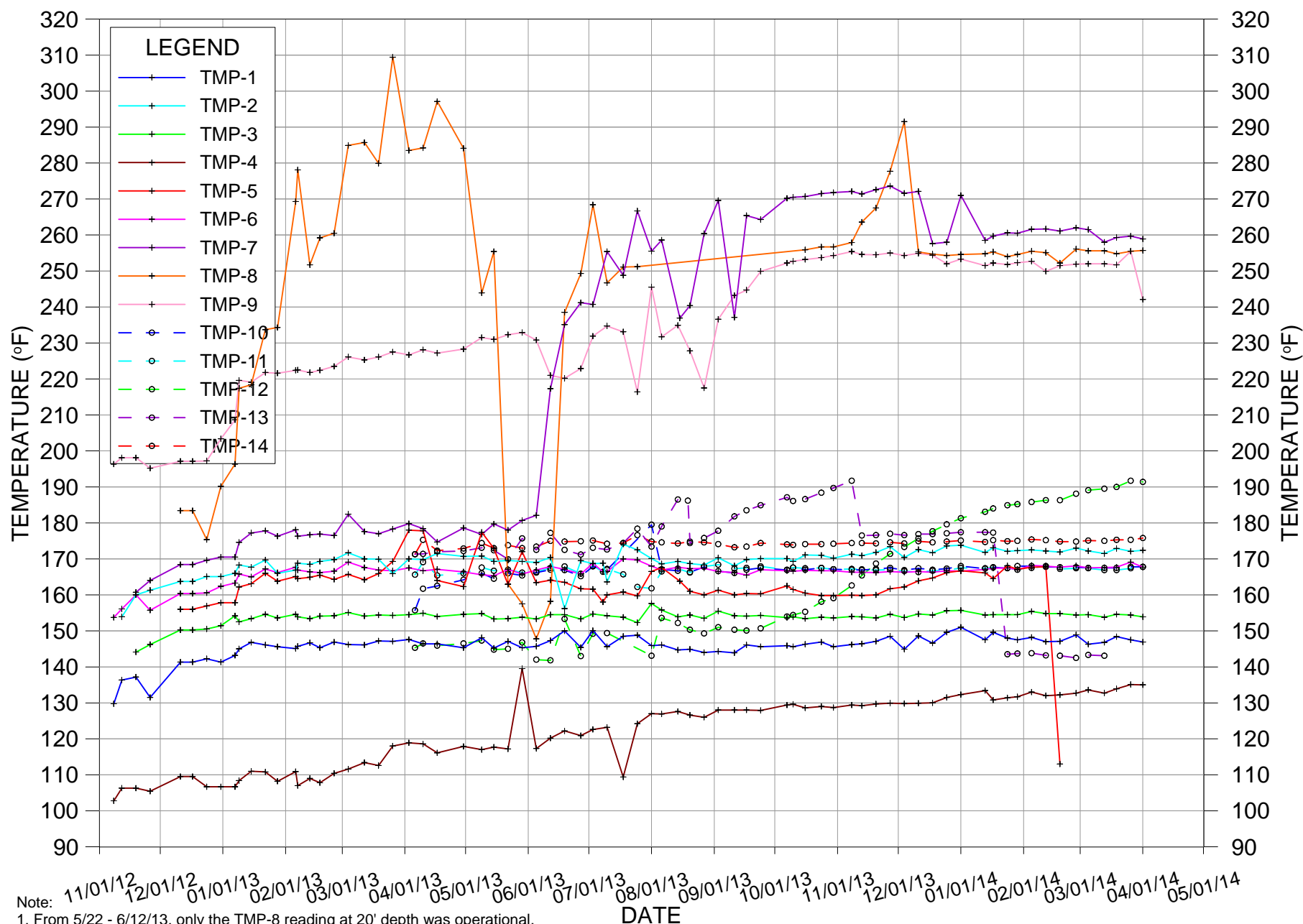
AVERAGE TEMPERATURES



- Note:
- 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.
 - A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.
 - No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.
 - 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



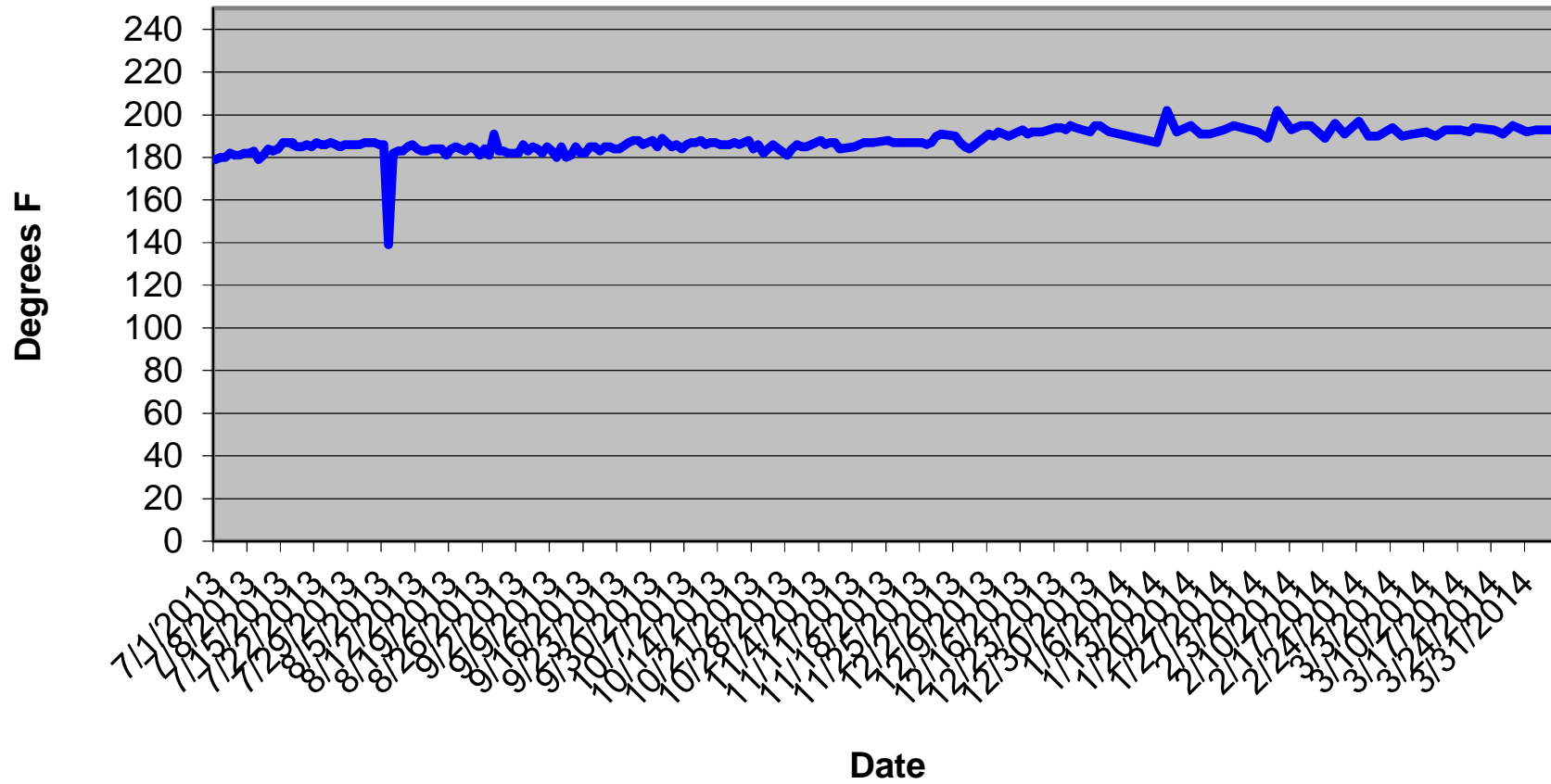
- Note: 11/01/12 12/01/12 01/01/13 02/01/13 03/01/13 04/01/13 05/01/13 06/01/13 07/01/13 08/01/13 09/01/13 10/01/13 11/01/13 12/01/13 01/01/14 02/01/14 03/01/14 04/01/14 05/01/14
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TEMPERATURE VS TIME
BRIDGETON LANDFILL

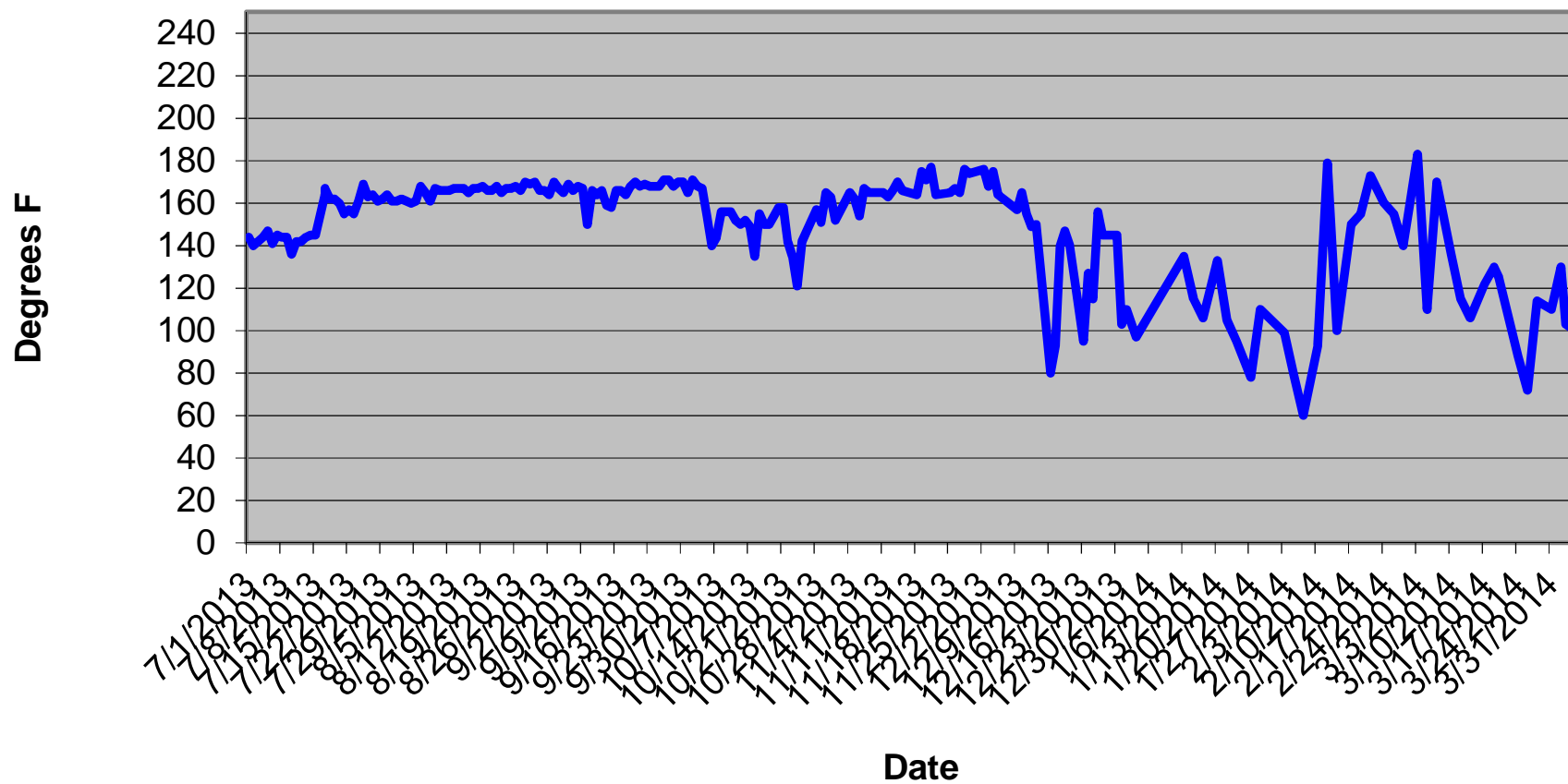
ATTACHMENT C

GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS

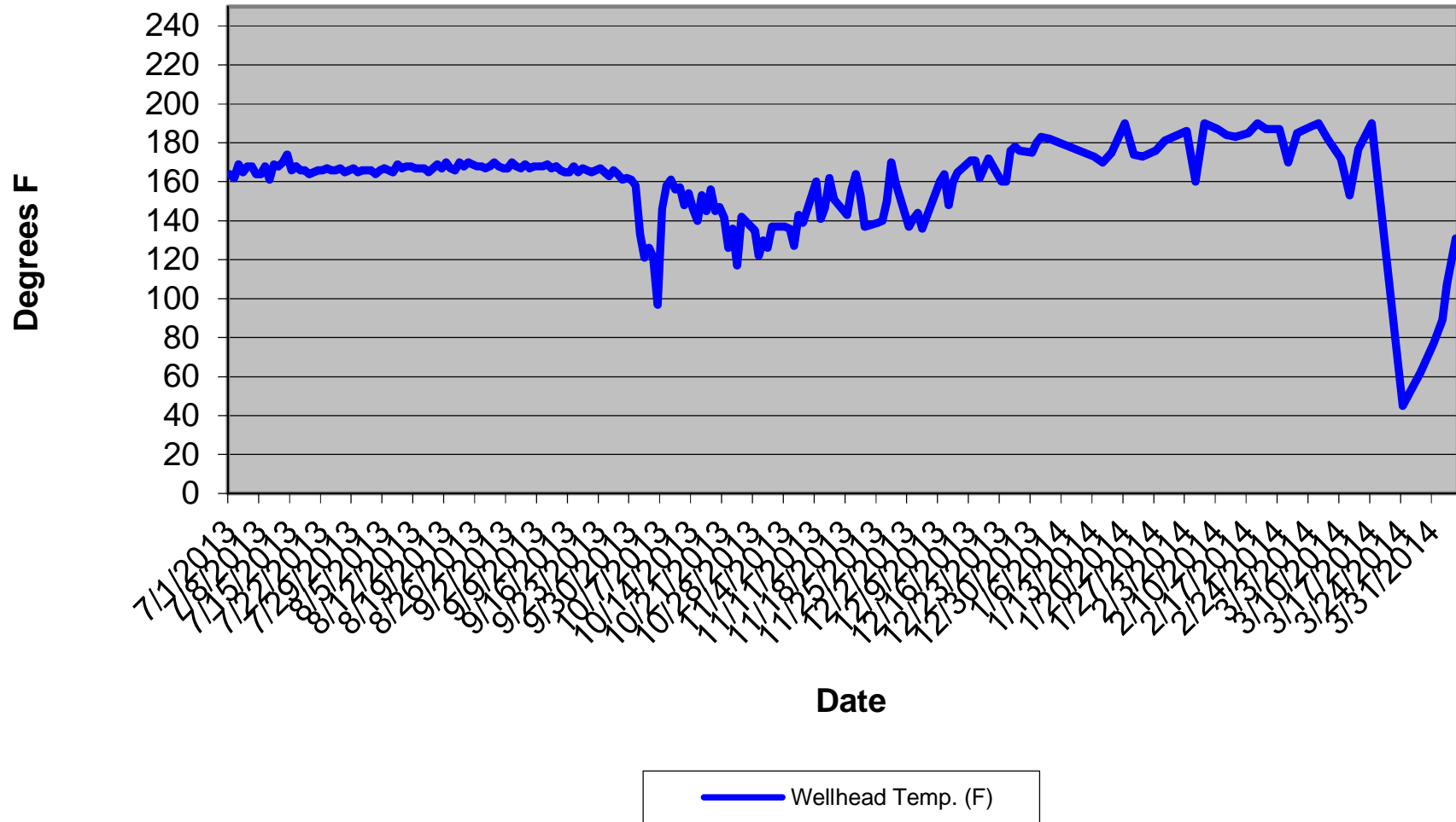
GIW-1 Wellhead Temperatures



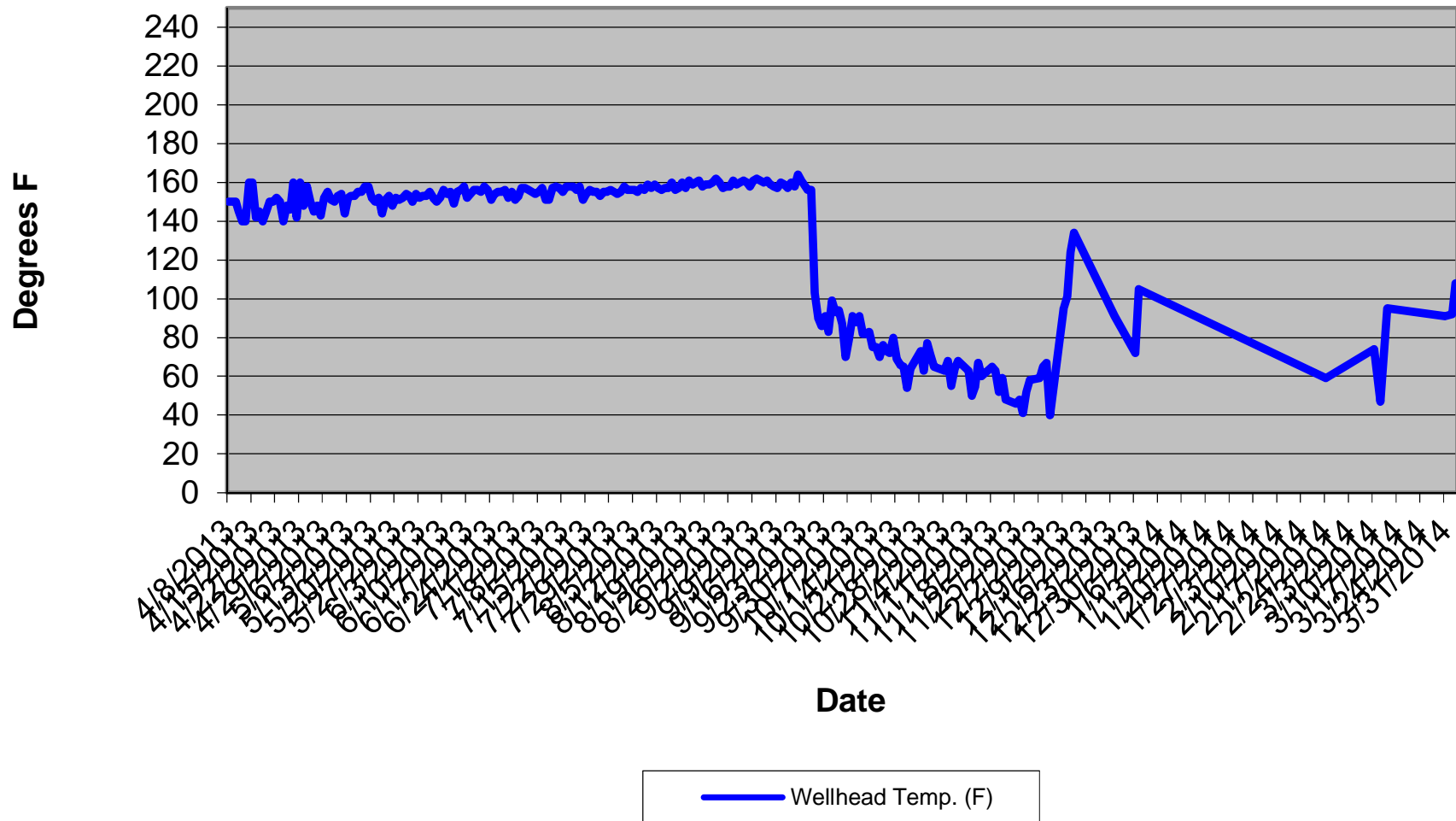
GIW-2 Wellhead Temperatures



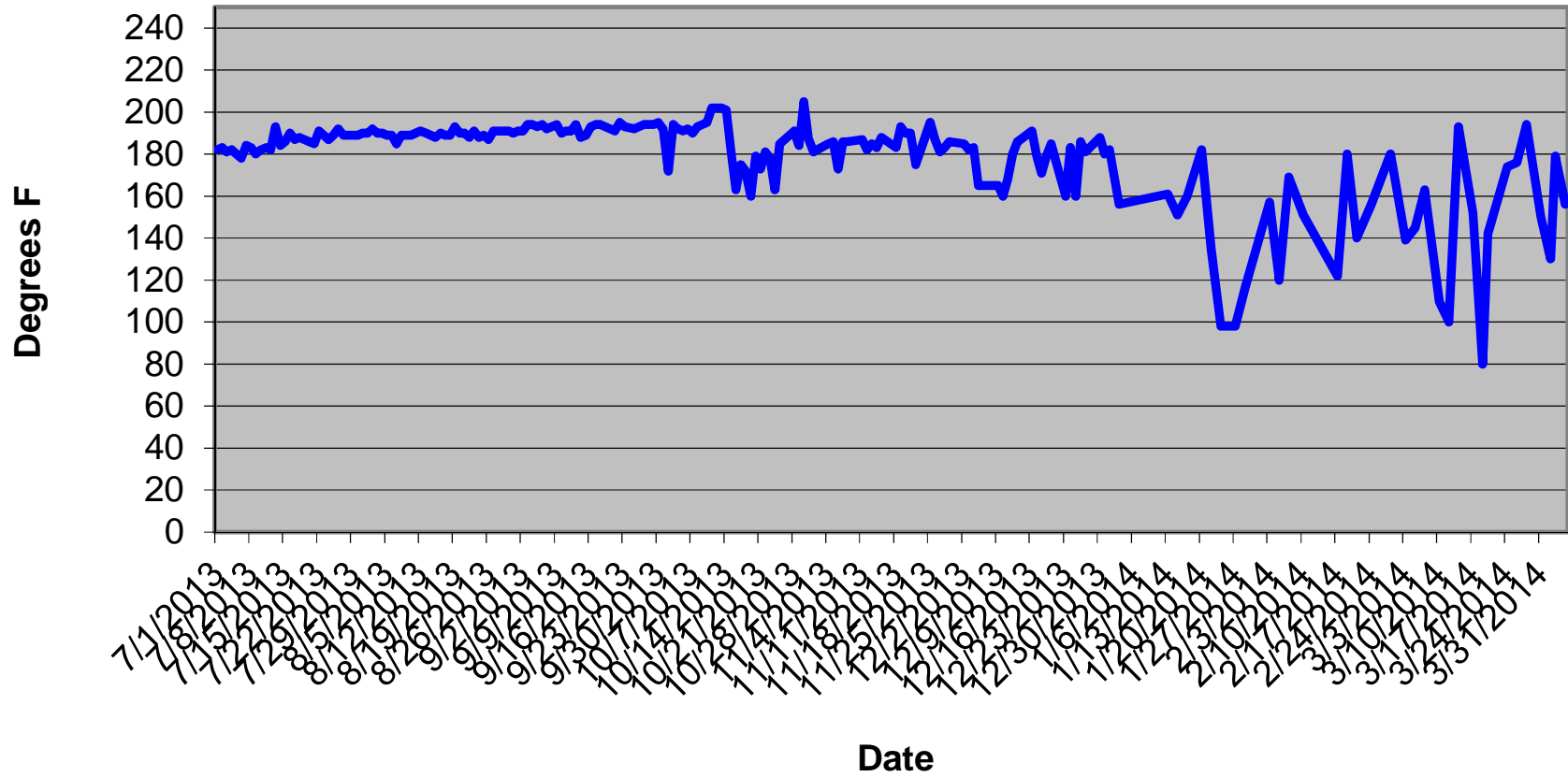
GIW-3 Wellhead Temperatures



GIW-4 Wellhead Temperatures

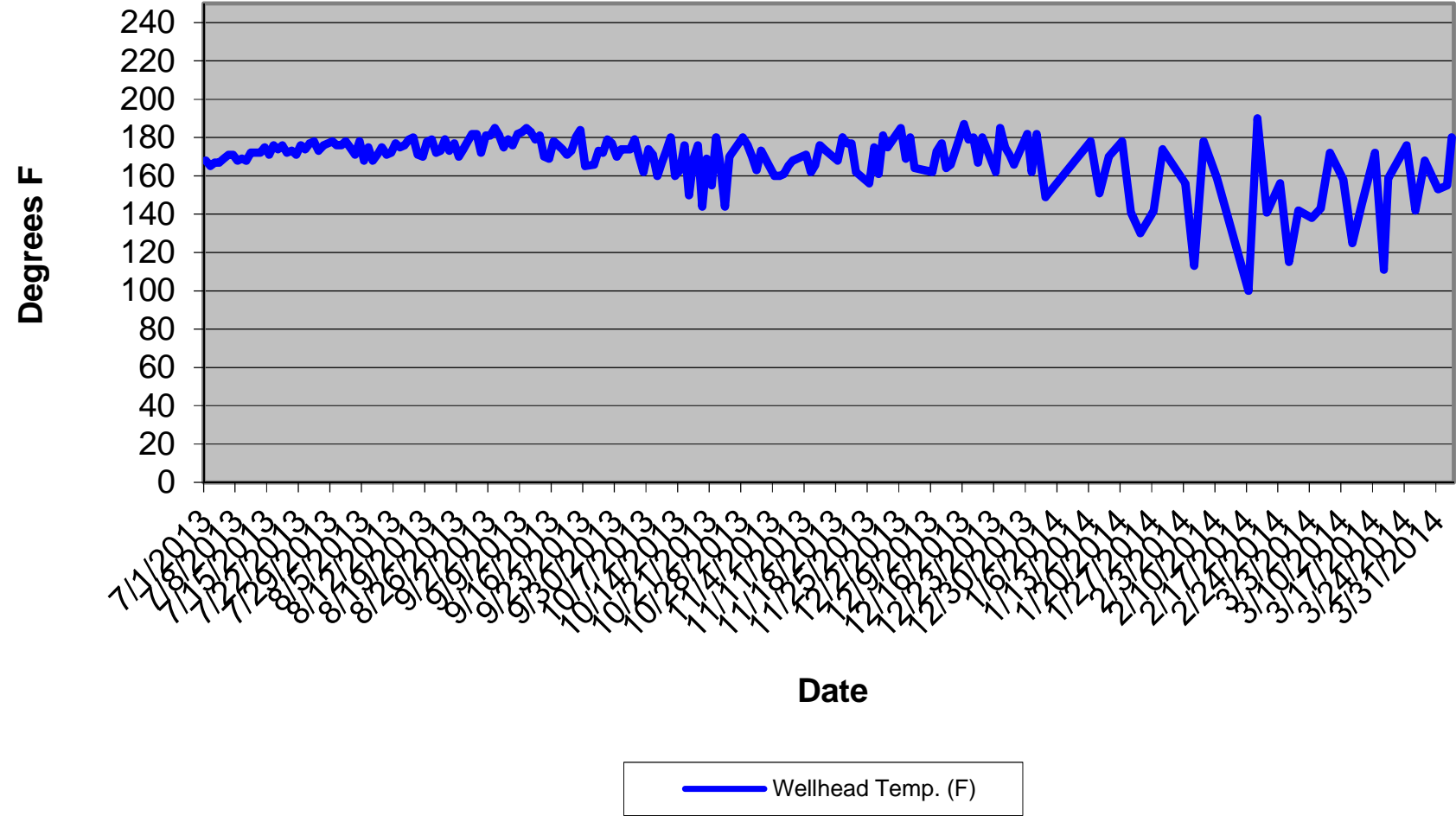


GIW-5 Wellhead Temperatures

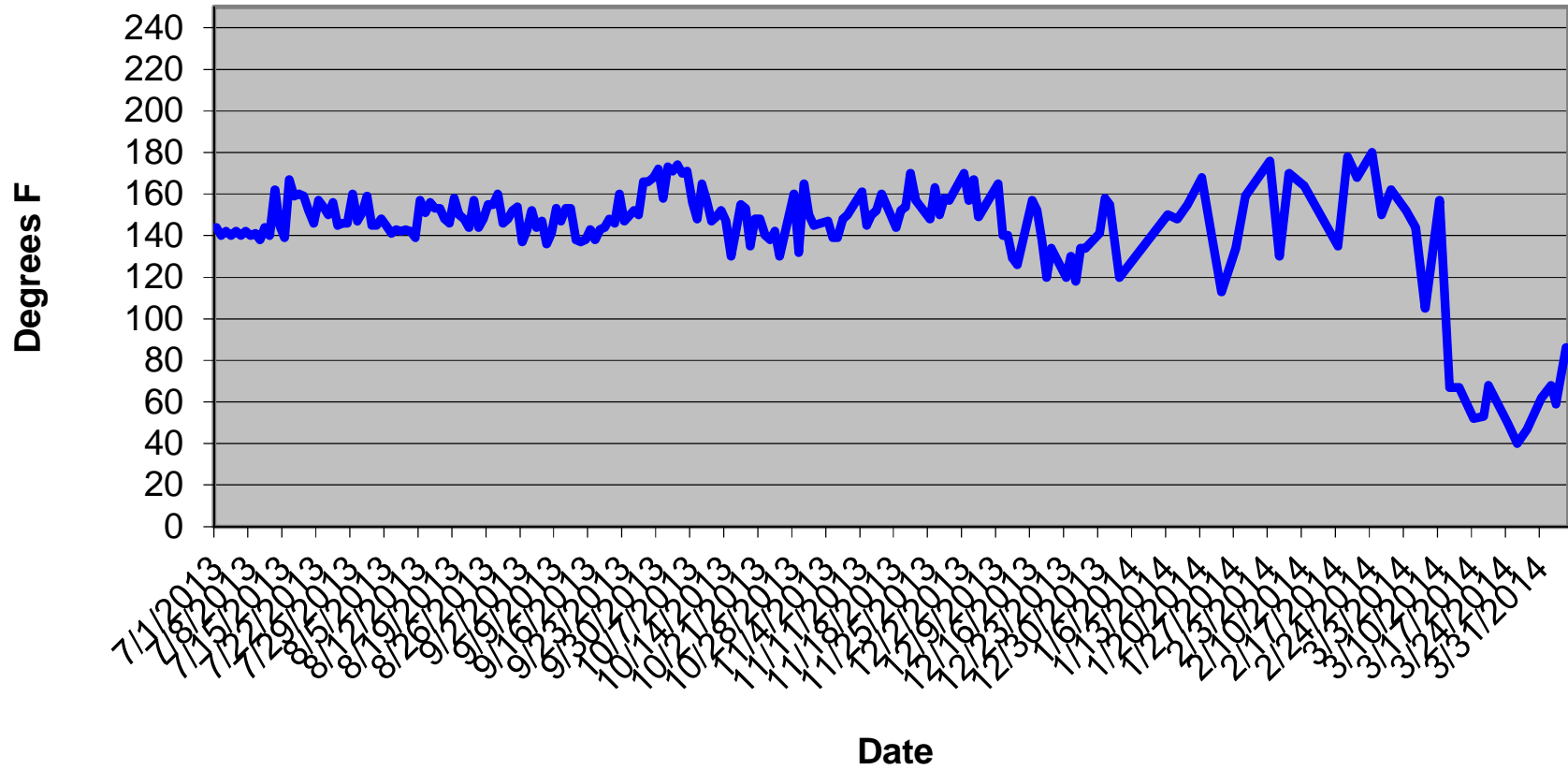


Wellhead Temp. (F)

GIW-6 Wellhead Temperatures

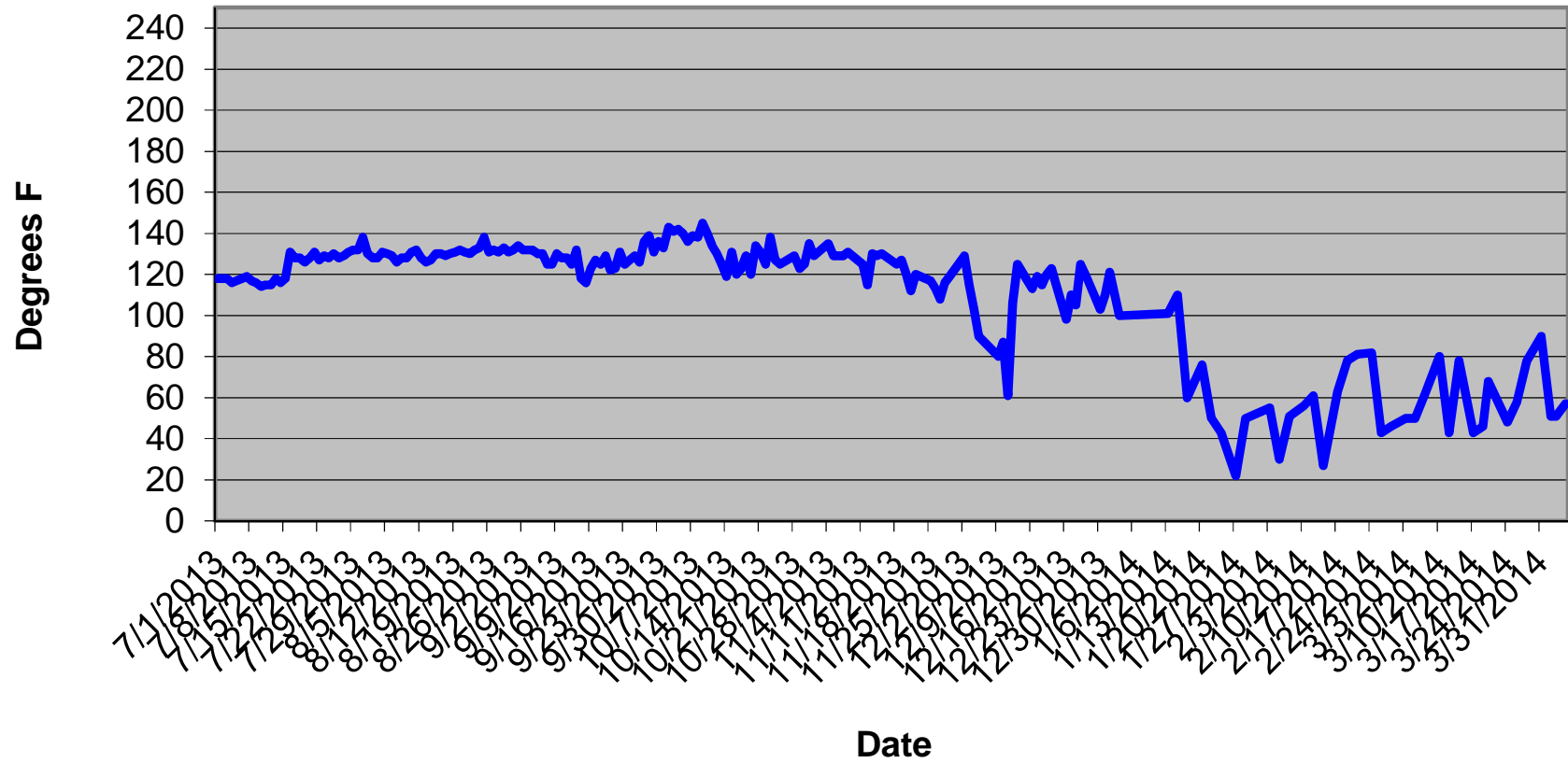


GIW-7 Wellhead Temperatures



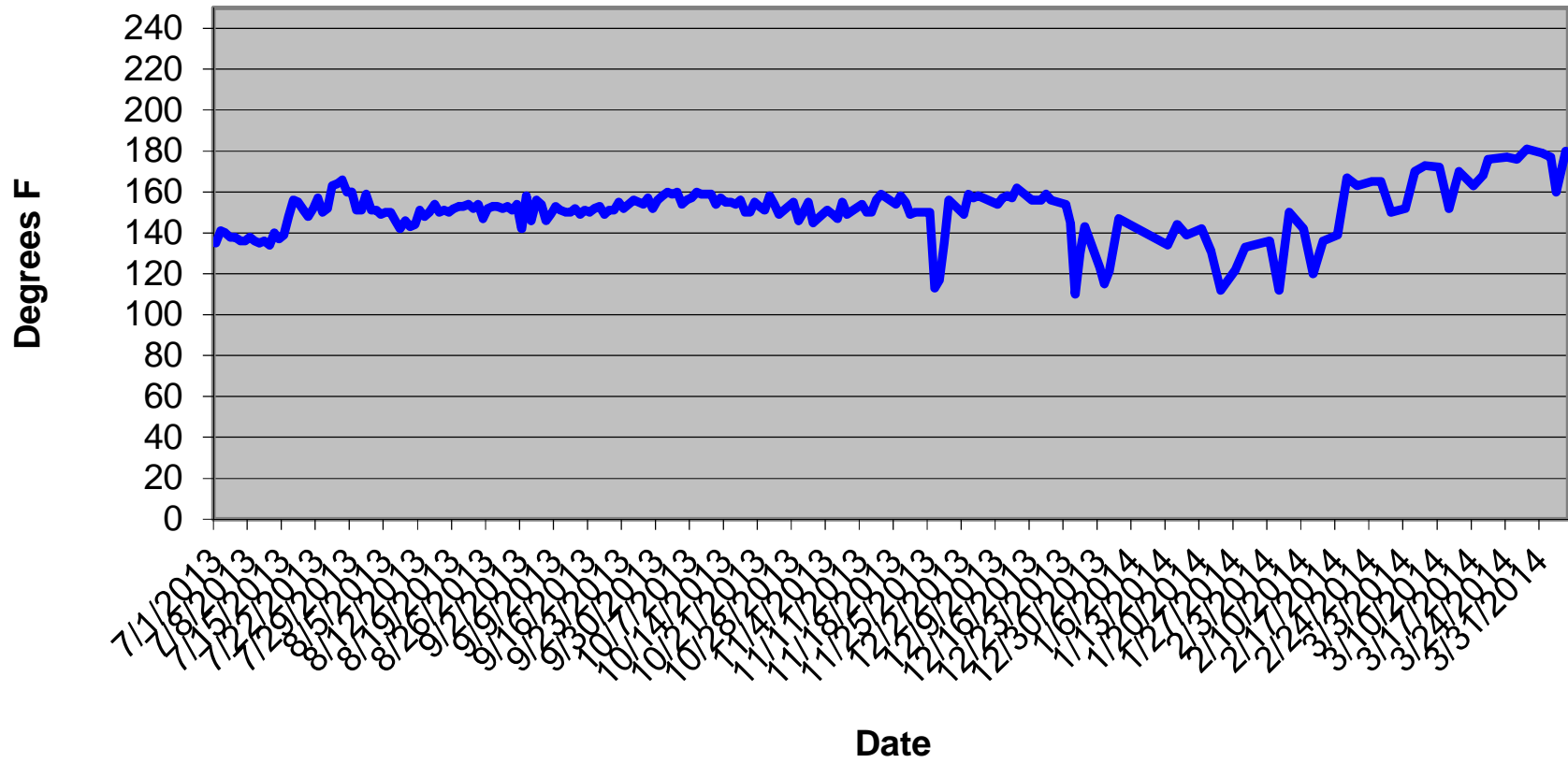
Wellhead Temp. (F)

GIW-8 Wellhead Temperatures

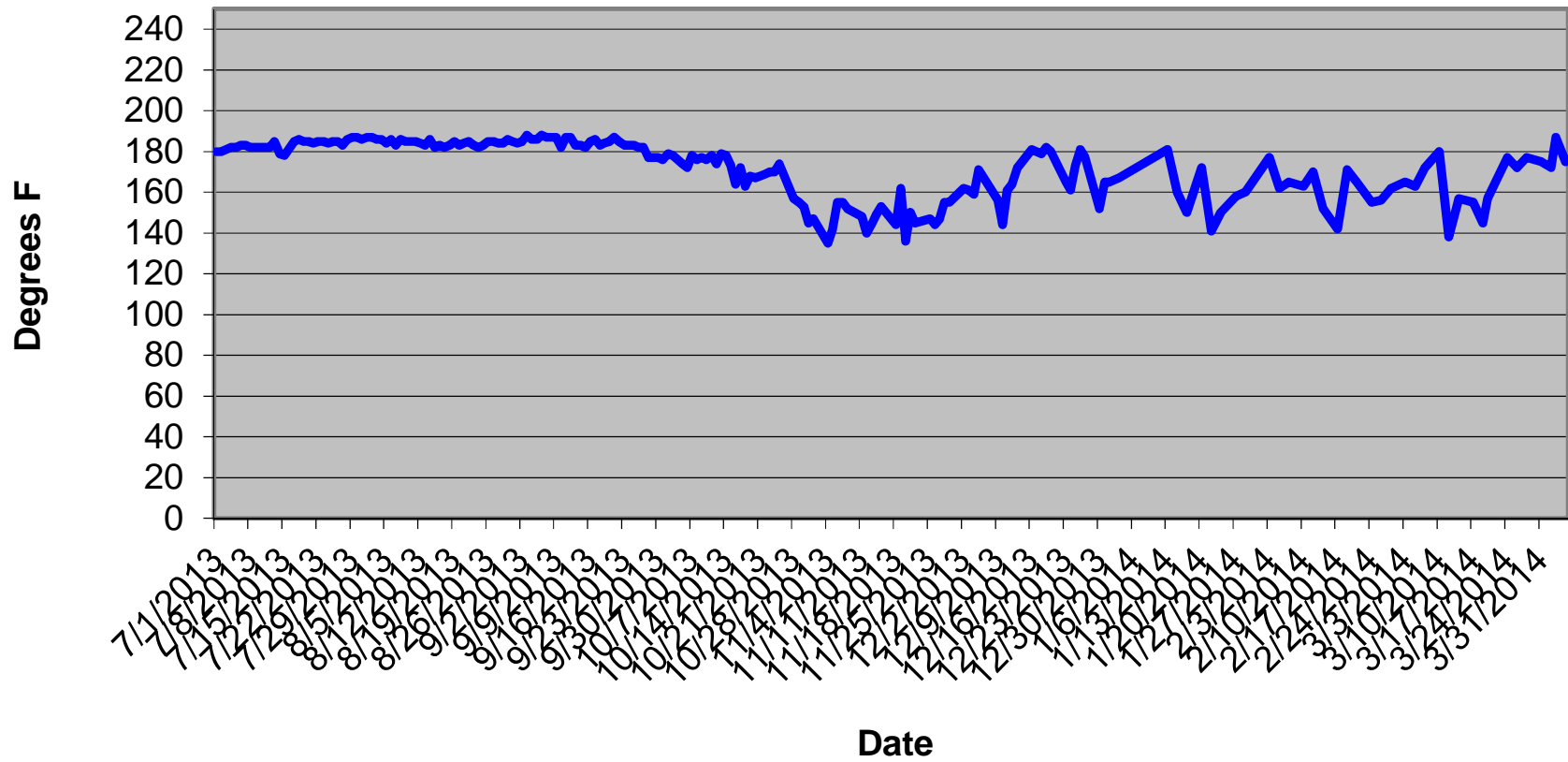


Wellhead Temp. (F)

GIW-9 Wellhead Temperatures

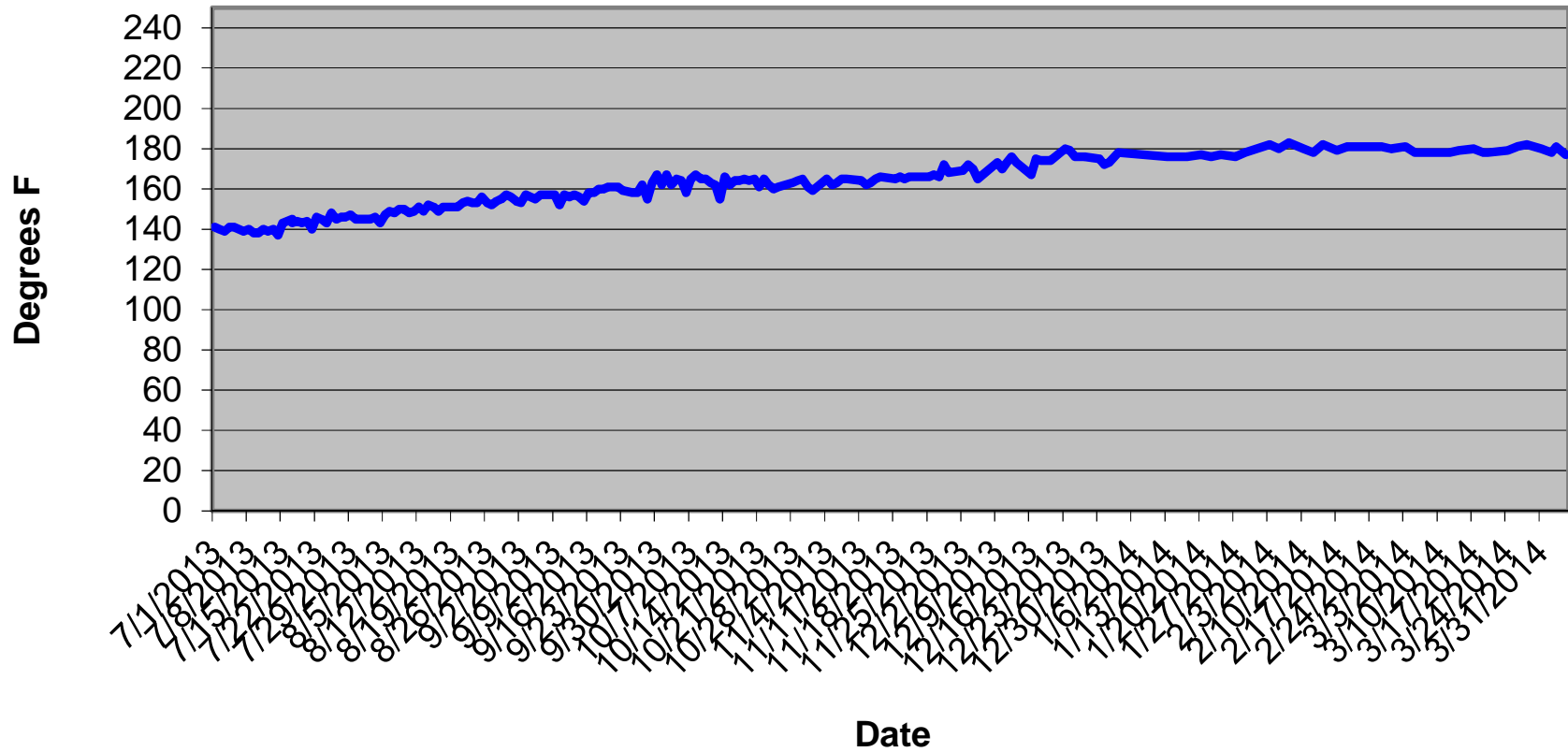


GIW-10 Wellhead Temperatures



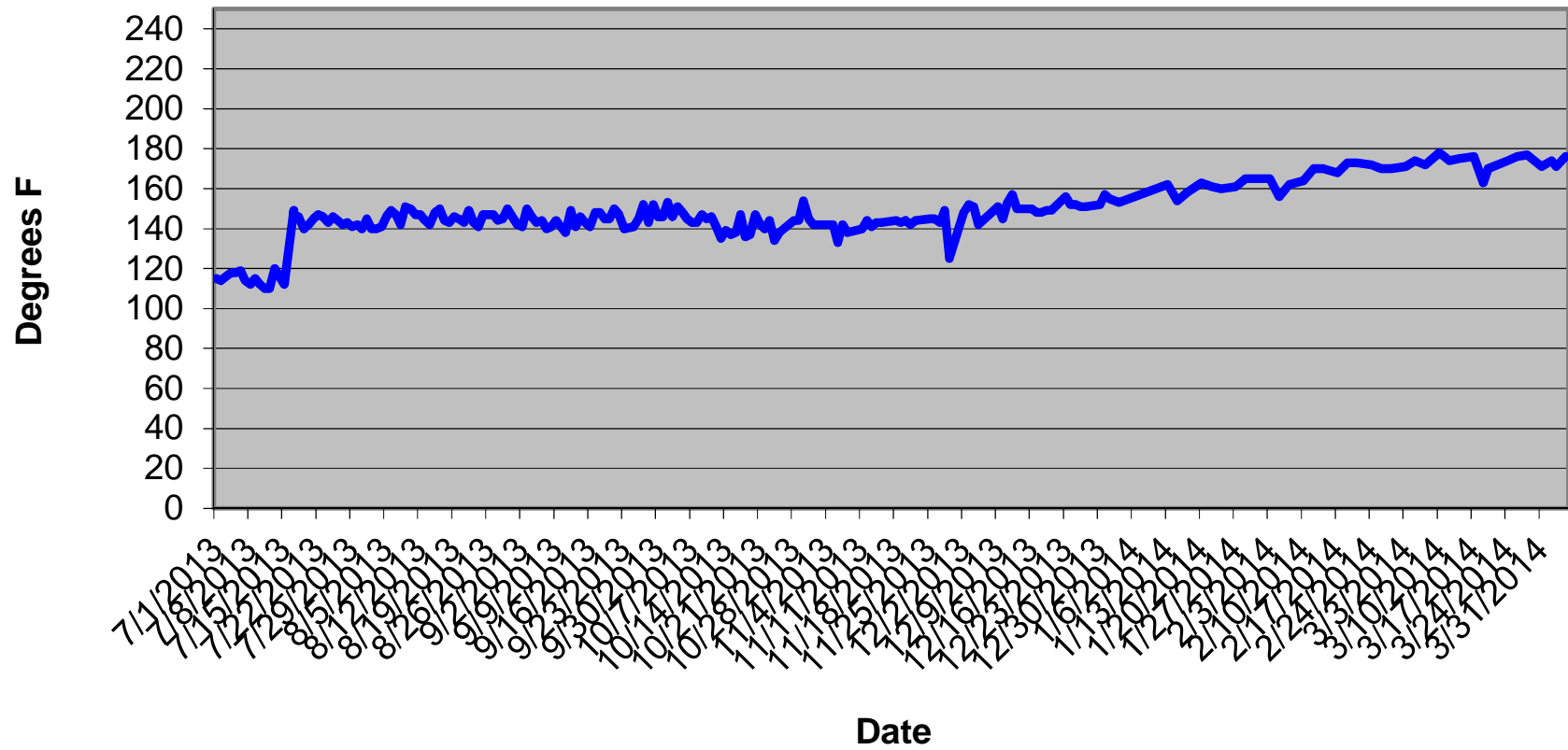
Wellhead Temp. (F)

GIW-11 Wellhead Temperatures



Wellhead Temp. (F)

GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

GIW-13 Wellhead Temperatures

