Bridgeton Landfill, LLC

Weekly Data Submittals

Week of December 21 - December 27, 2014

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

Attachment D – Neck-Area Gas Extraction 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
- Neck-Area Gas Extraction Well Data Excel Spreadsheet

Commentary on Data

<u>Attachment A – Leachate Levels in Leachate Collection Sumps</u>

Leachate Collection Sump (LCS)-1D, -5A, and -6B were partially or fully operational during the weekly reporting period. LCS-1D, while operational at the time of inspection, has a broken transducer.

The pump in LCS-2D was off during the weekly monitoring event due to an "over current" error.

The transducer melted in LCS-3D in March 2014 and is currently non-operational.

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. This well casing was lowered the week of December 29, 2014, and a PC pump installed.

Attachment B - Temperature Monitoring Probe Analytical Charts

The following TMPs indicated generally consistent profiles to previous observations: TMP-1, -2, -3, -4, -6, -8, -9, -10, -11, -14, -16, -17, and -18.

TMP-5, -7, -7R, -12, -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

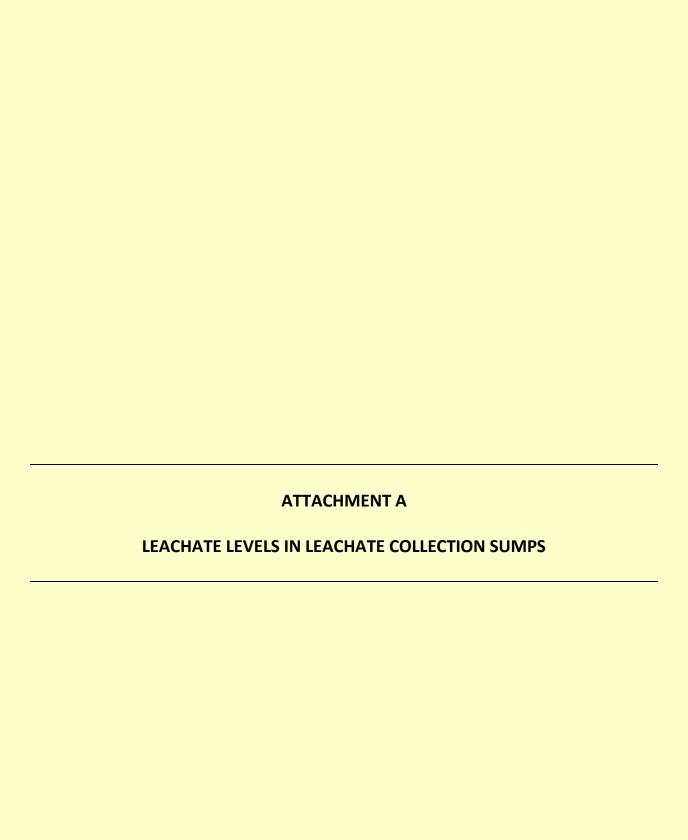
There are currently water circulation cooling loops installed in seven Gas Interceptor Wells (GIWs) (GIW-2 through GIW-7, as well as GIW-10). Wellhead gas temperatures in these wells are all in the low to mid 40-50°F range.

For the remaining six wells without a cooling system installed (GIW-1, -8, -9, -11, -12, and -13), with the exception of GIW-11, gas temperatures were generally consistent over the past week as well as compared to prior weeks. GIW-11 has been experiencing 20-30 degree fluctuations in gas temperature, which is likely due to its proximity to GIW series wells with cooling loops installed.

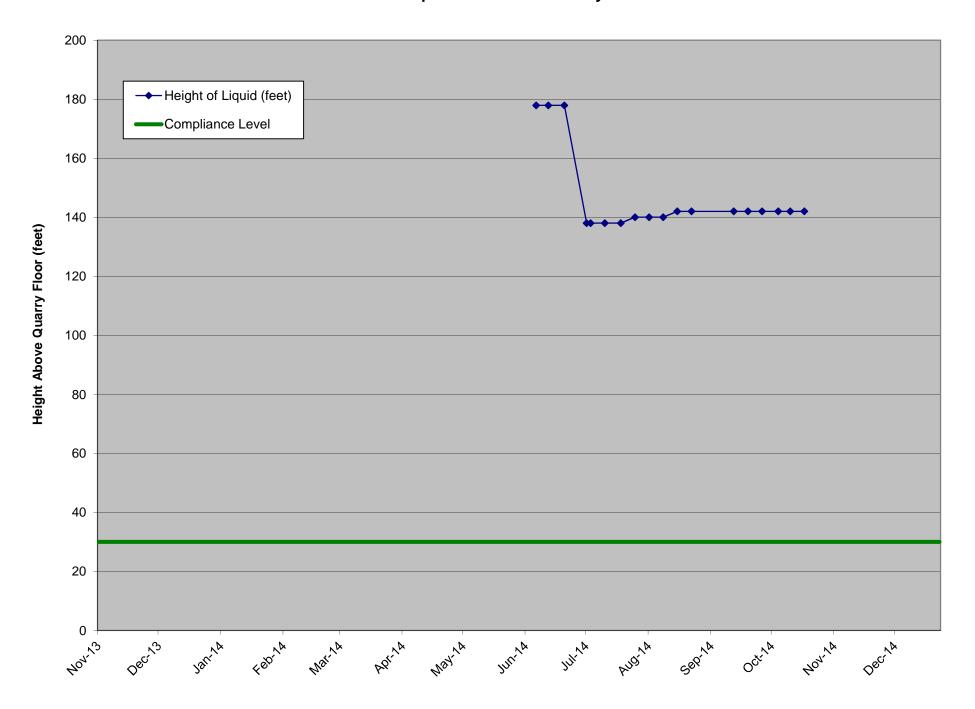
Attachment D – Neck Area Gas Extraction Well Data

Weekly gas temperature data is being collected for select gas extraction wells (GEWs) located in the neck area of the landfill. These wells include GEW-08, -09, -10, -38, -39, -40, -41R, -43R, -53, -54, -55, -56R, -109, and -110. Over the past week all 14 wells were monitored and all well temperatures were consistent in comparison to prior weeks, with the exception of GEW-110, which experienced an increase in temperature from previous ambient conditions, due to effective liquids pumping and exposure of well casing perforations. This trend is expected to continue in future weeks to temperatures near adjacent TMPs.

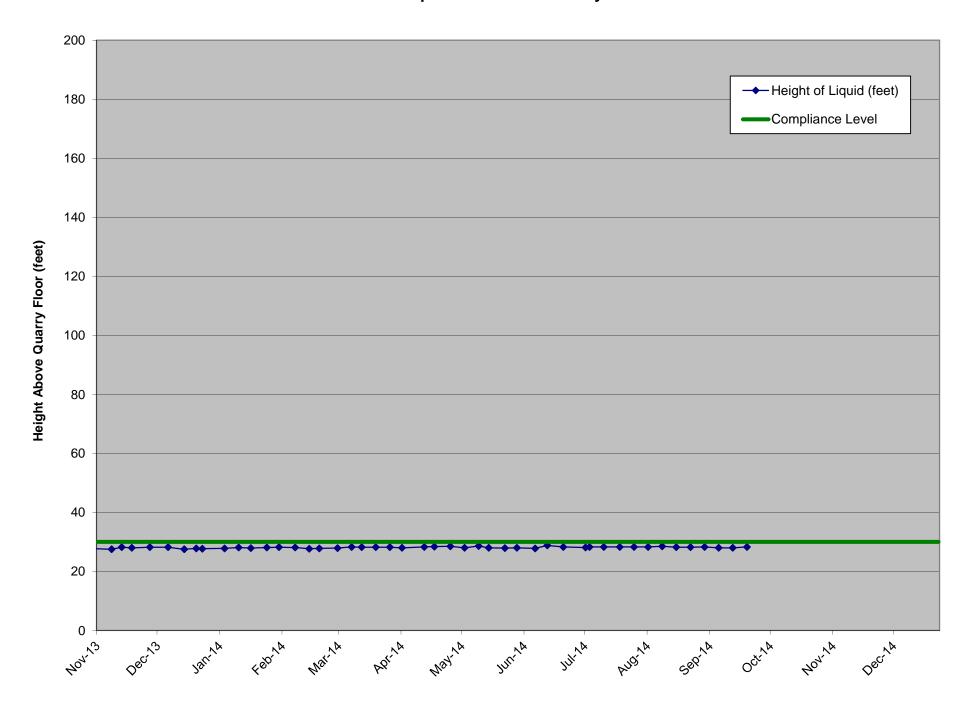
<u>Note to above Data Commentary:</u> This report includes data collected and reported pursuant to the requirements of the Agreed Order, as amended, together with additional data that Bridgeton Landfill has agreed to include in the weekly reports. This report does not incorporate any changes based upon MDNR's letter received late on December 26, 2014, which is currently undergoing technical review.



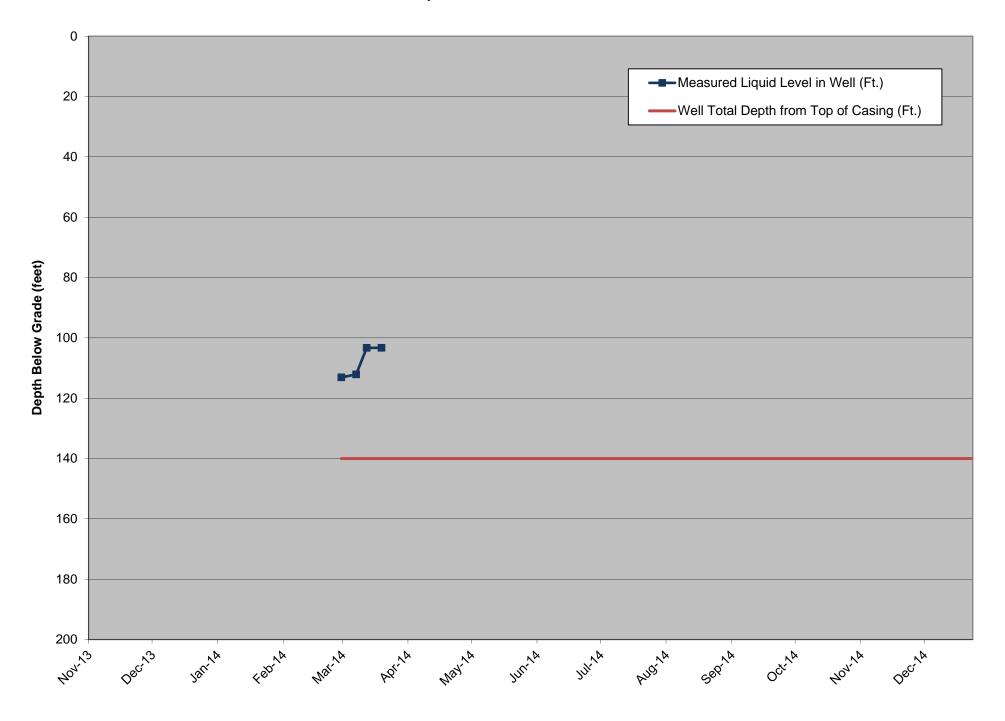
LCS-1D Liquid Level Above Quarry Floor



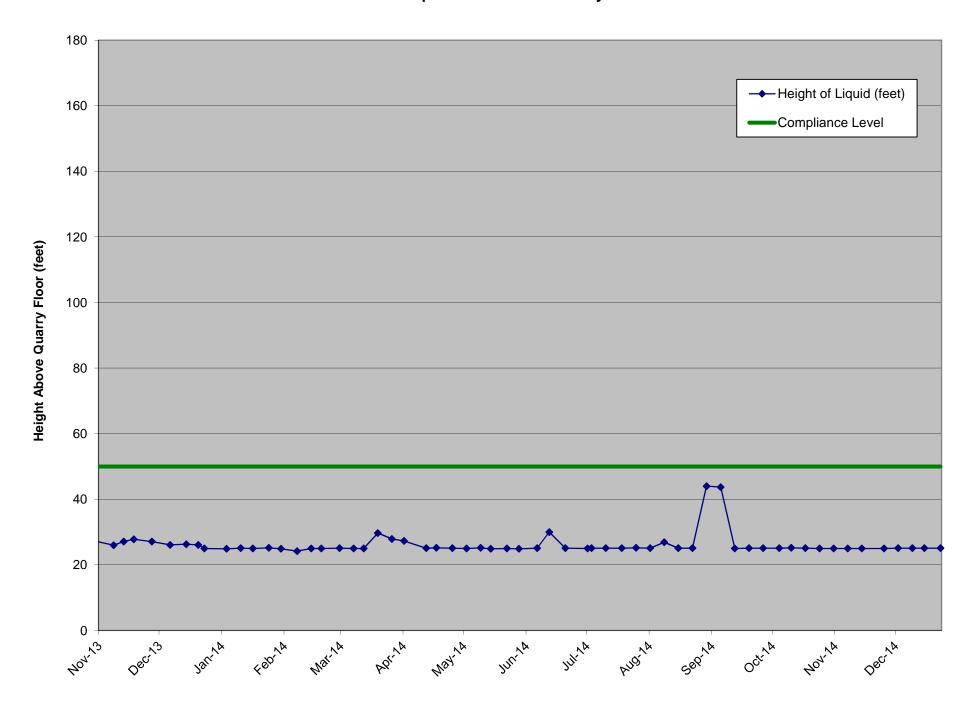
LCS-2D Liquid Level Above Quarry Floor



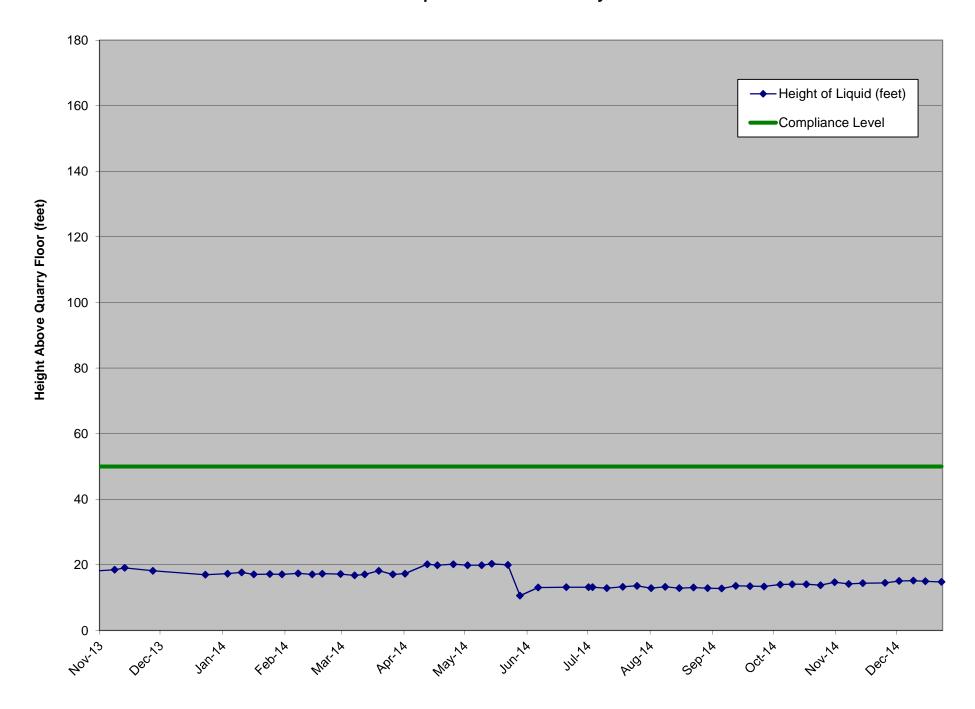
LCS-3D Liquid Level Below Ground Surface

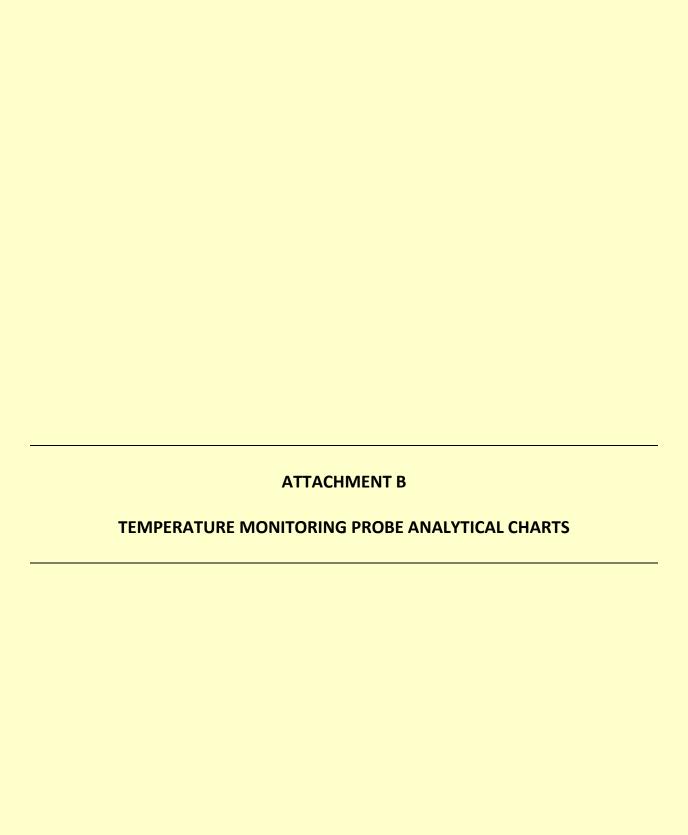


LCS-5A Liquid Level Above Quarry Floor

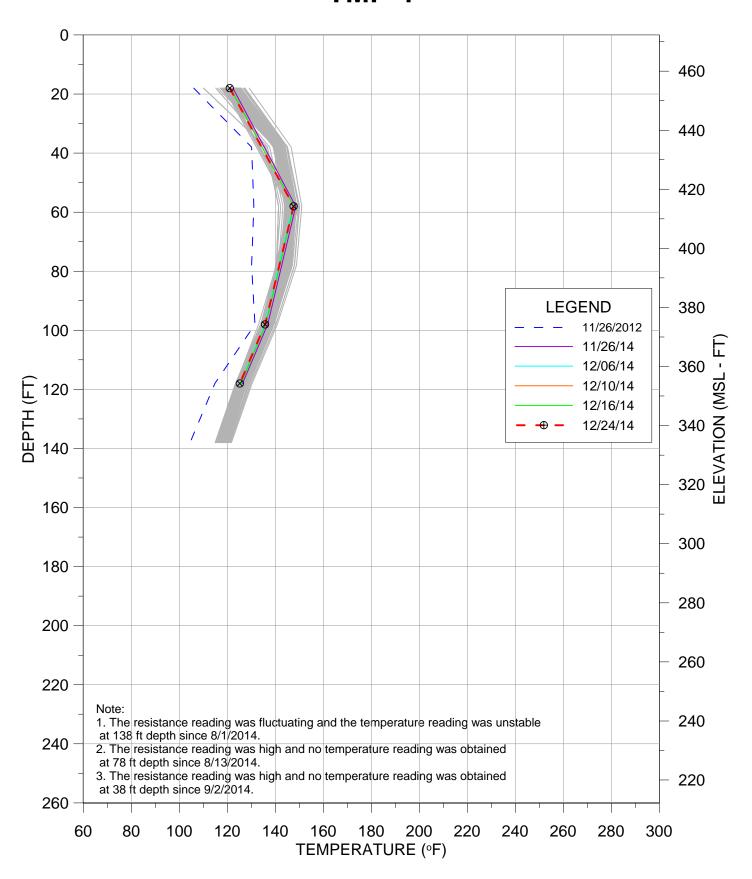


LCS-6B Liquid Level Above Quarry Floor

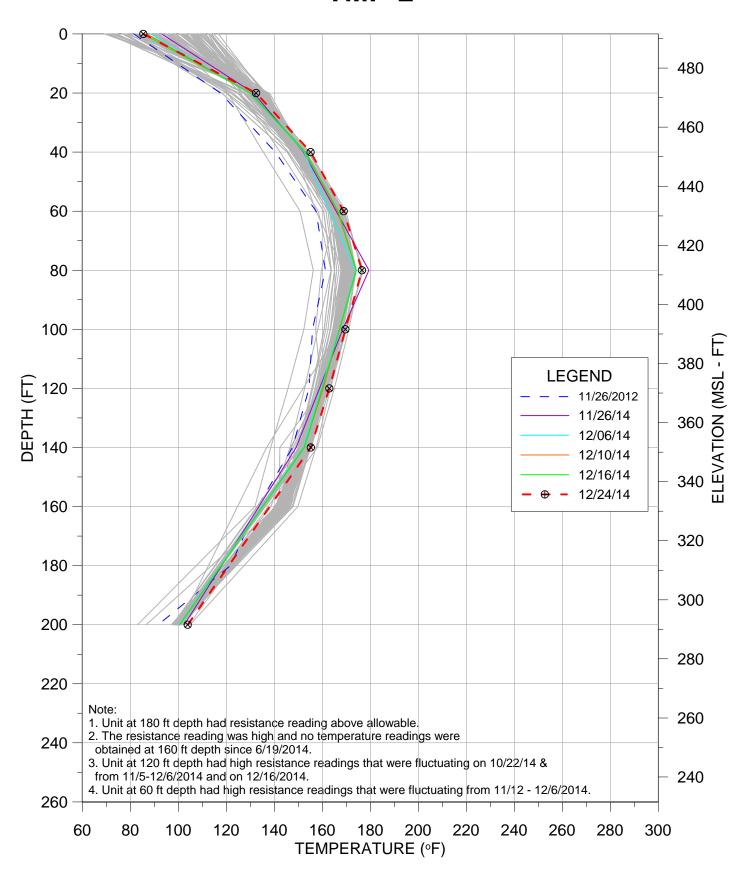




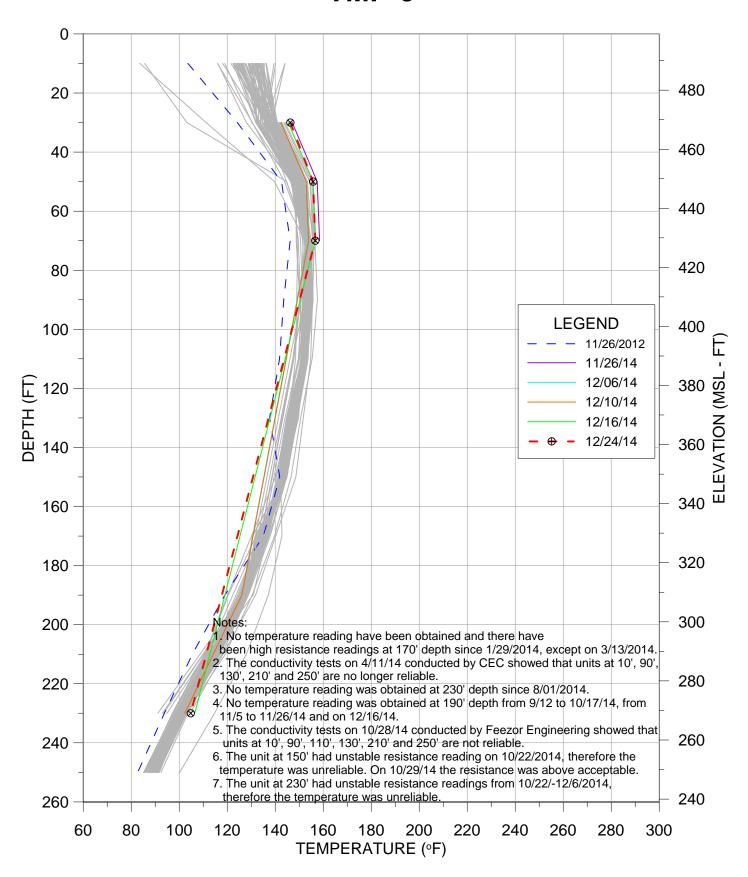
TMP-1



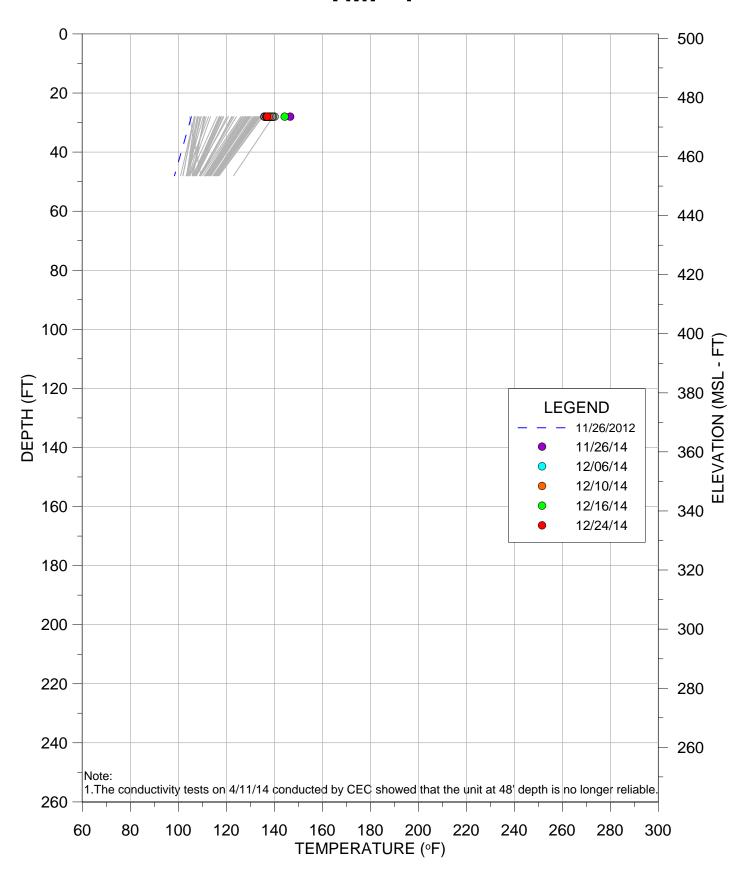
TMP-2



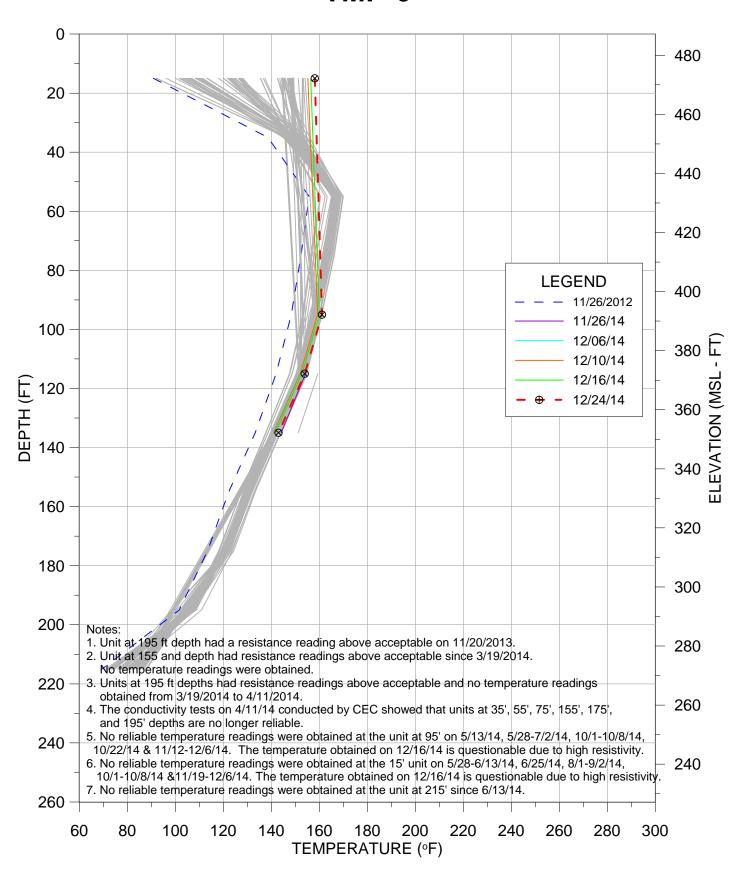
TMP-3



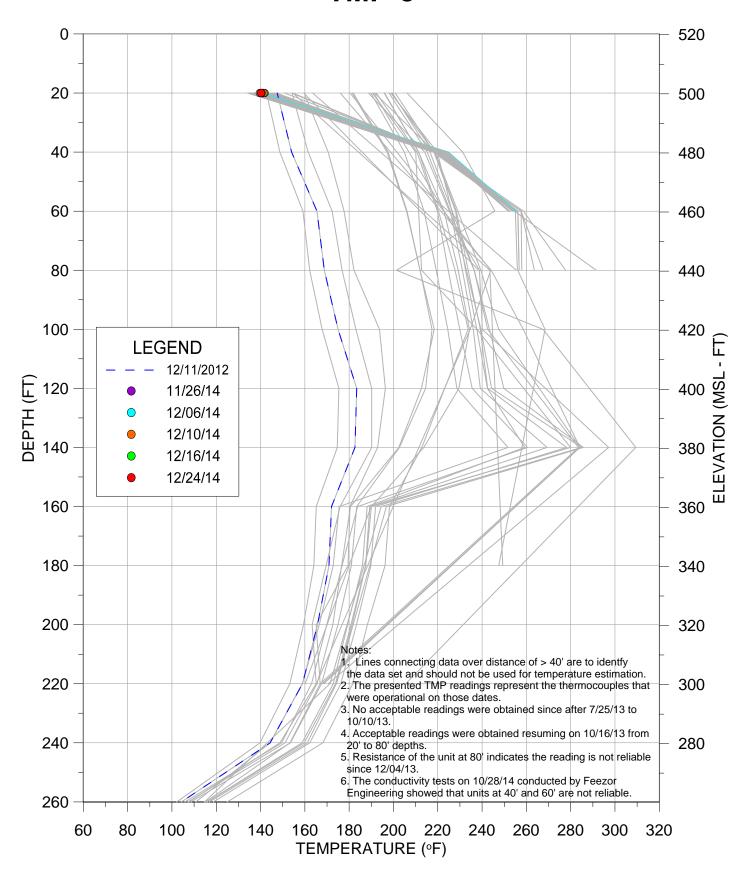
TMP-4



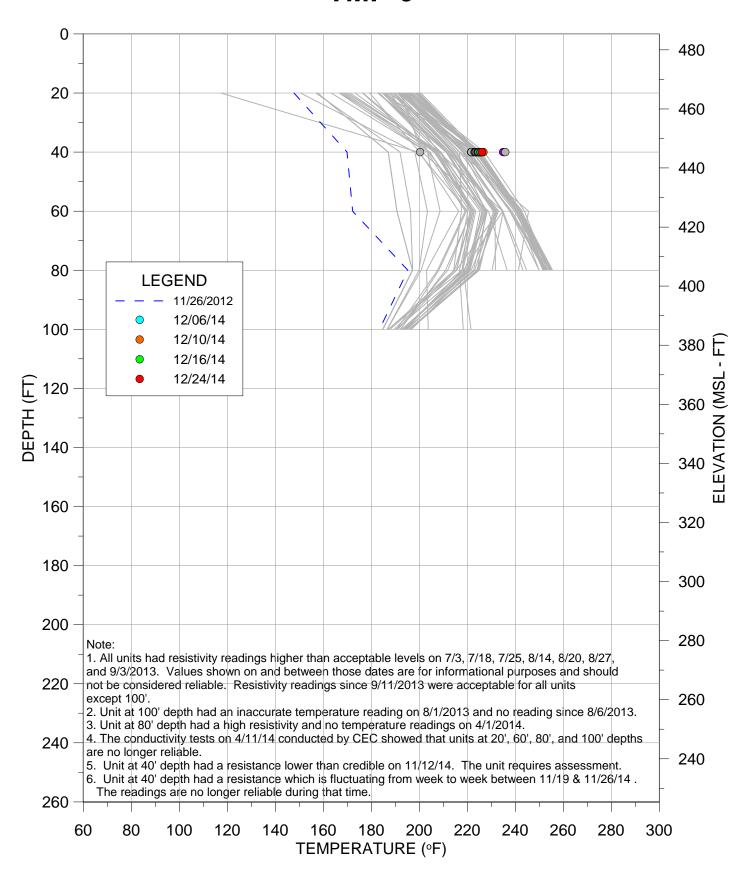
TMP-6



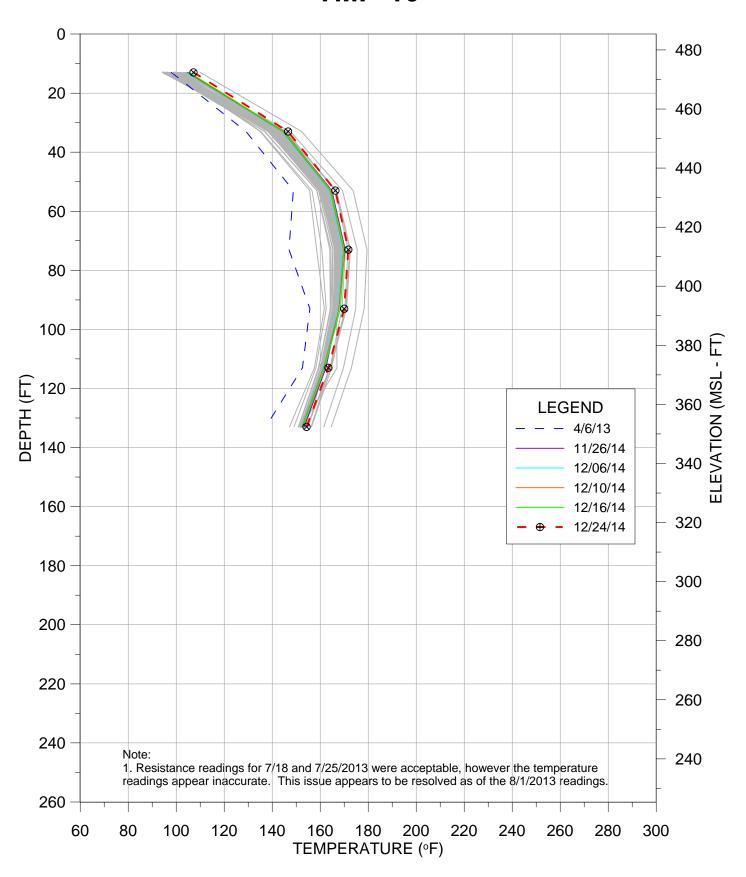
TMP-8



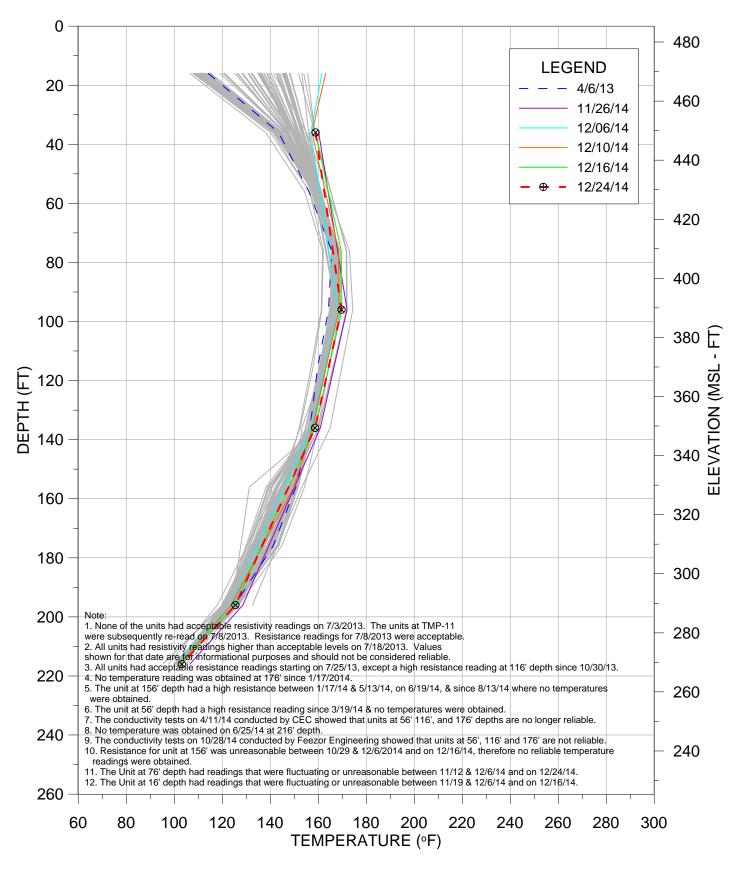
TMP-9



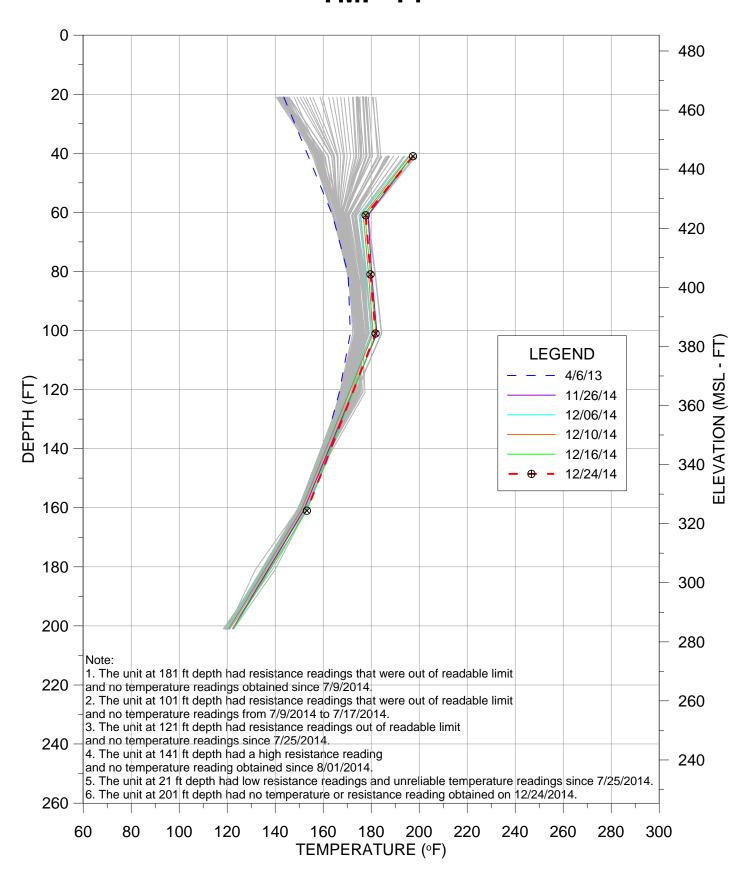
TMP-10



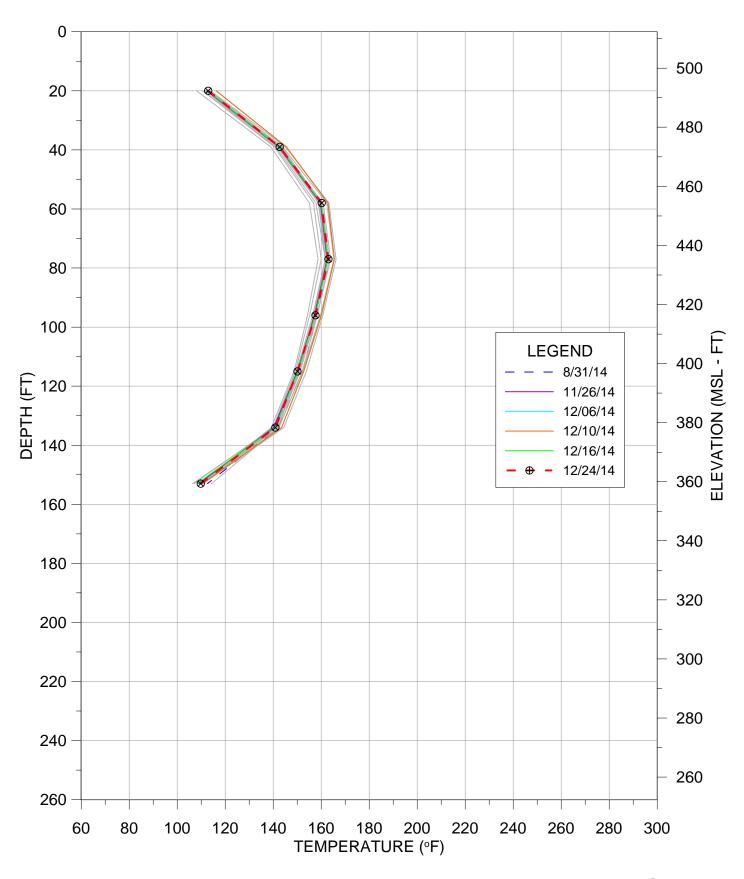
TMP-11



TMP-14

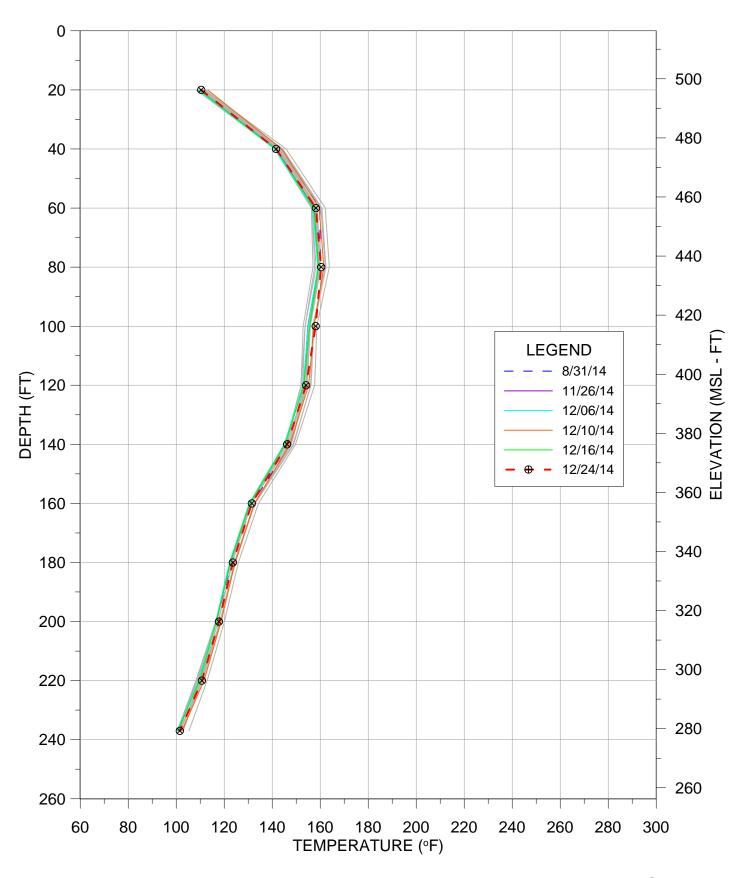


TMP-16



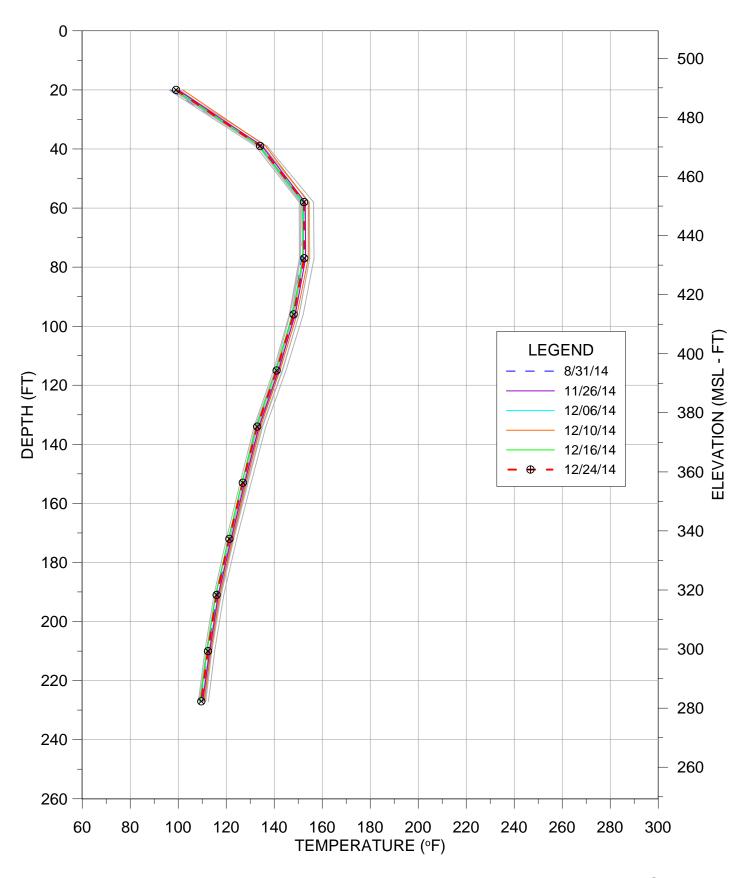
TEMPERATURE VS DEPTH BRIDGETON LANDFILL

TMP-17



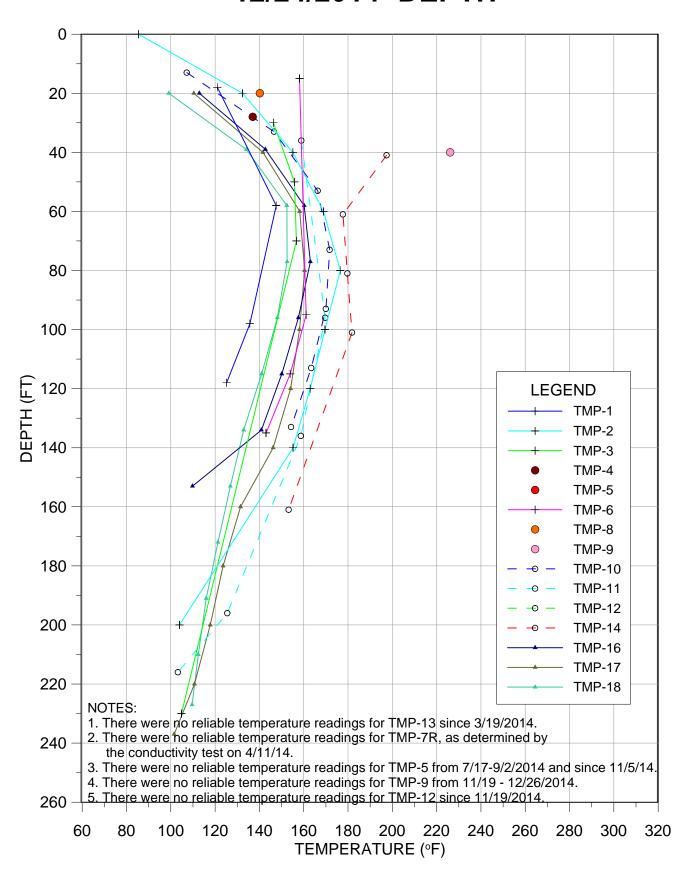
TEMPERATURE VS DEPTH BRIDGETON LANDFILL

TMP-18

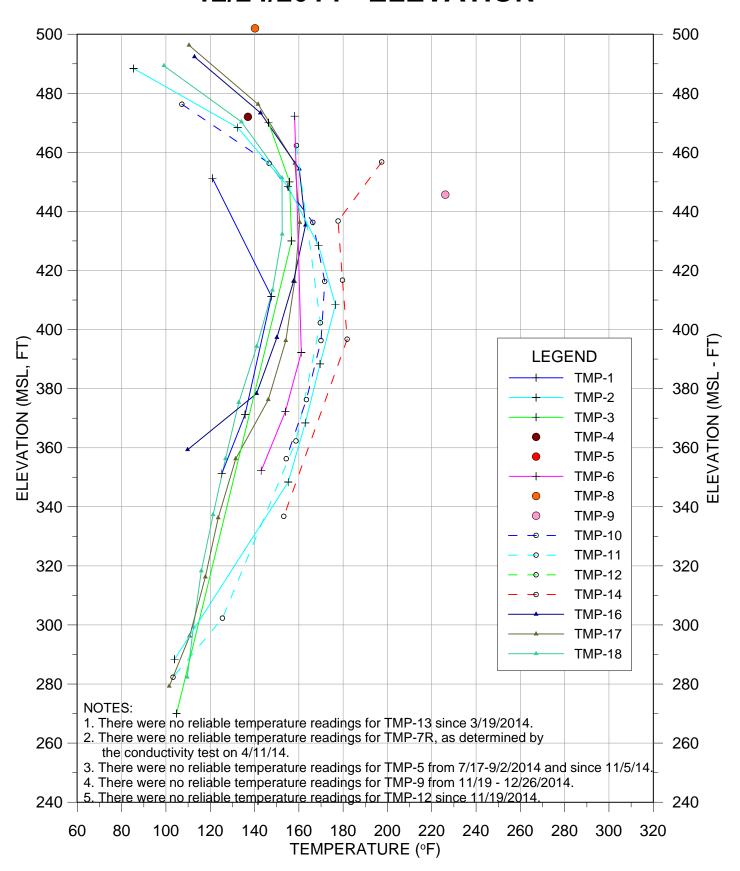


TEMPERATURE VS DEPTH BRIDGETON LANDFILL

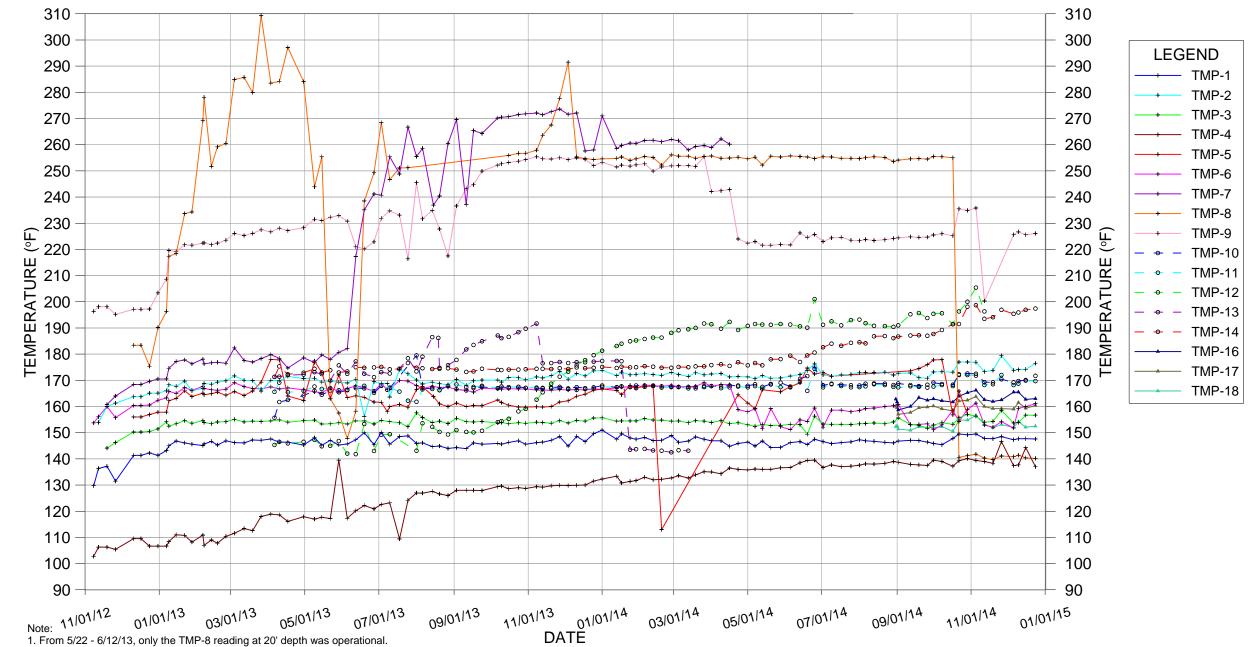
12/24/2014 -DEPTH



12/24/2014 - ELEVATION



MAXIMUM TEMPERATURES



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.

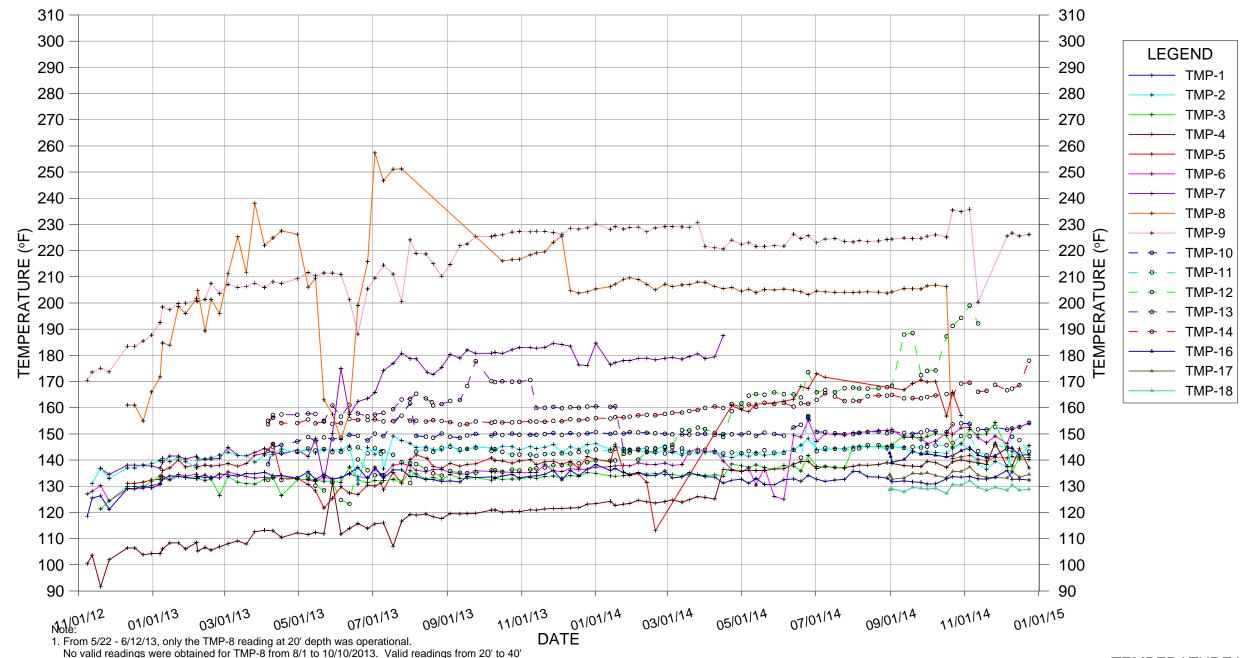
TEMPERATURE VS TIME BRIDGETON LANDFILL

^{2.} A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more vaild 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.

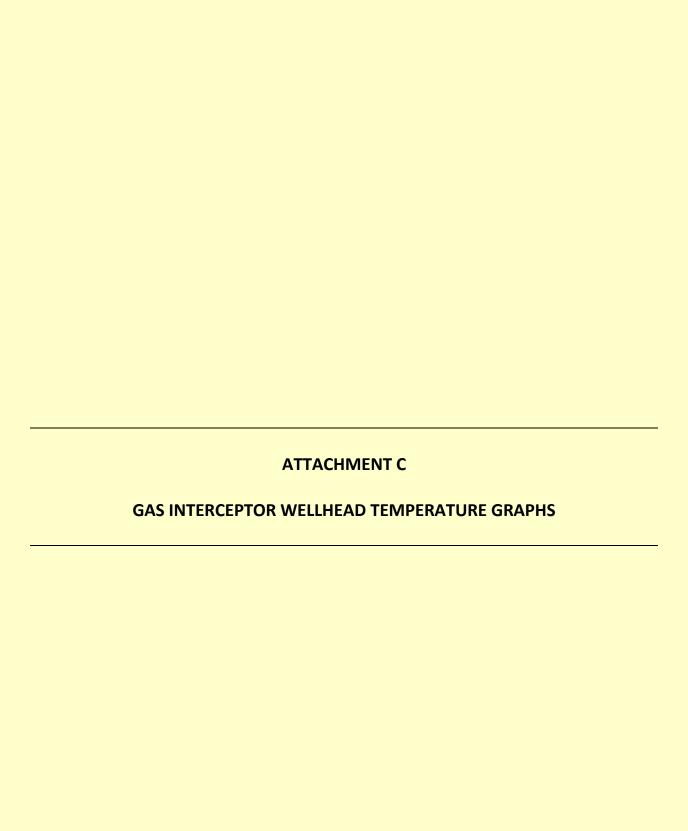
AVERAGE TEMPERATURES



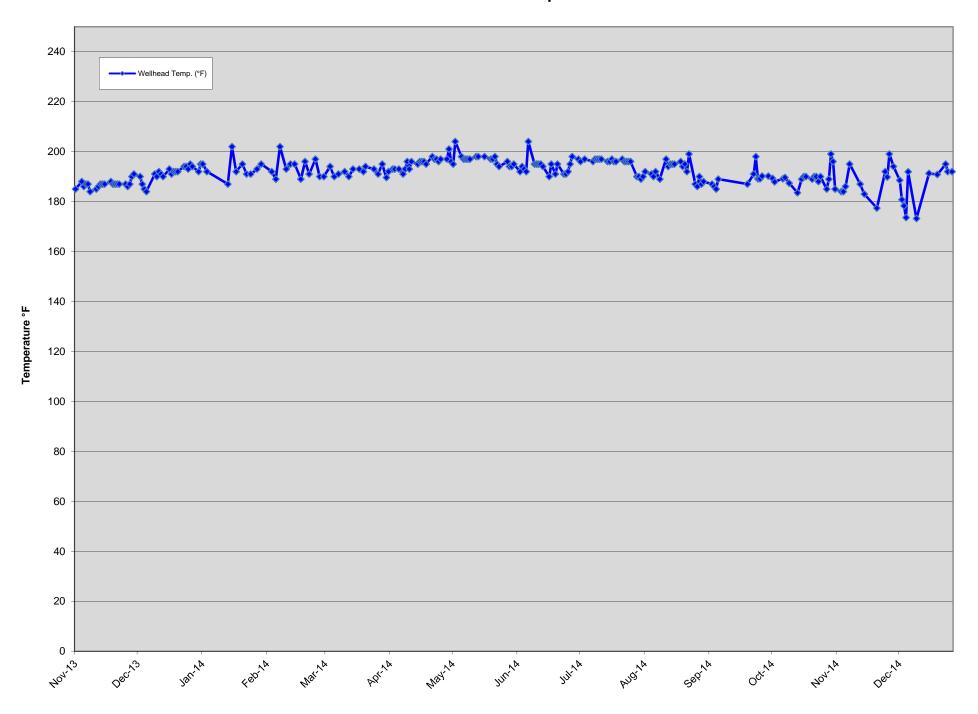
resumed on 10/16/2013.
2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more vaild readings.

3. No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.

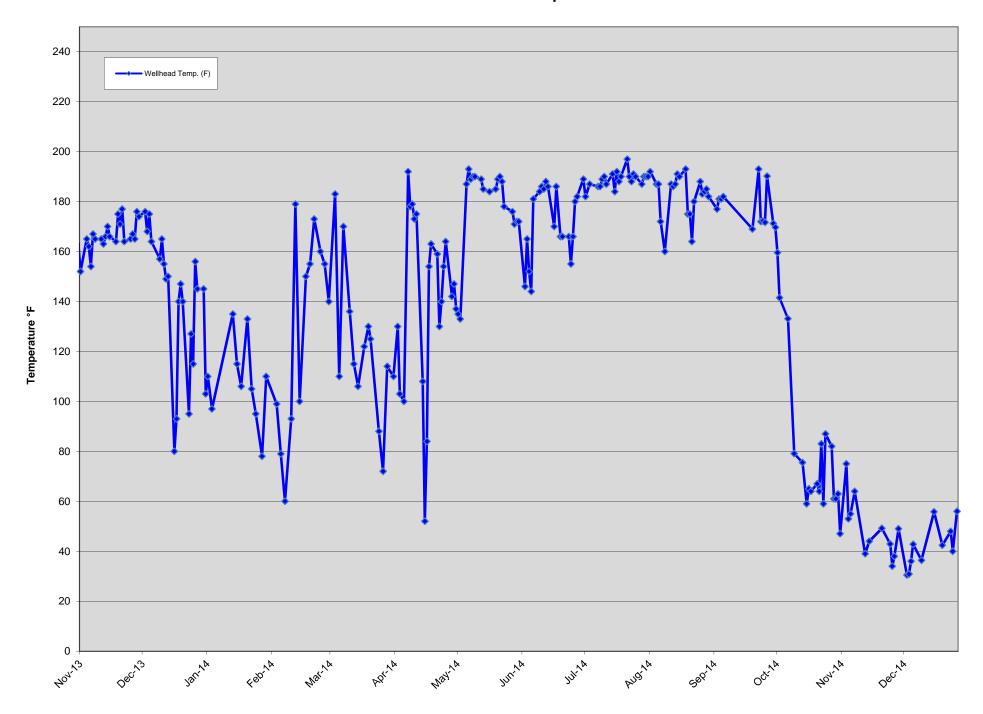
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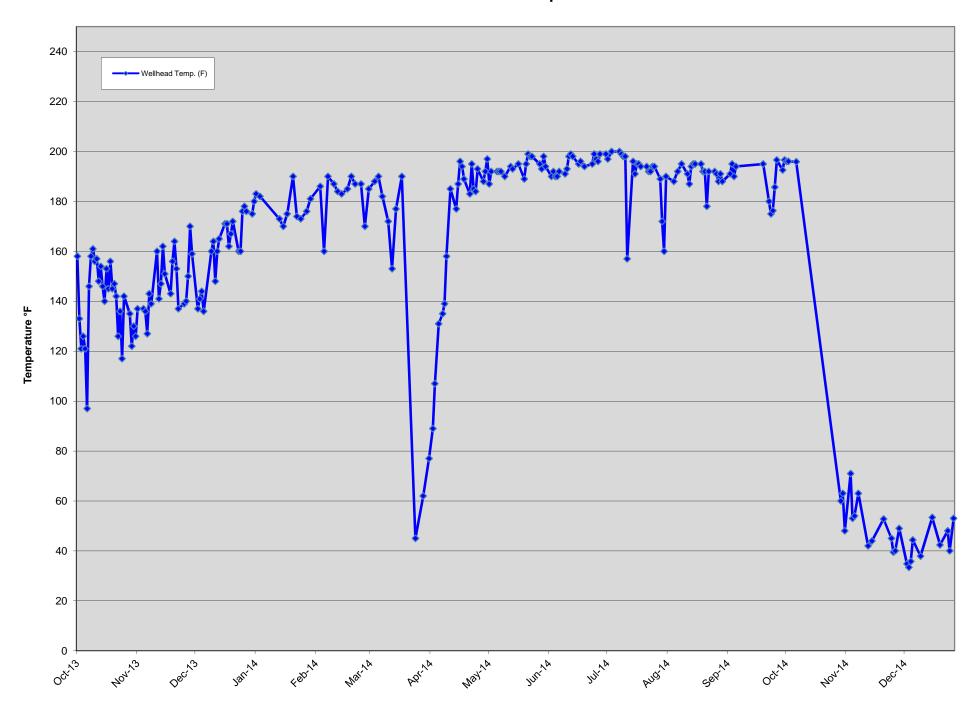
GIW-1 Wellhead Temperatures



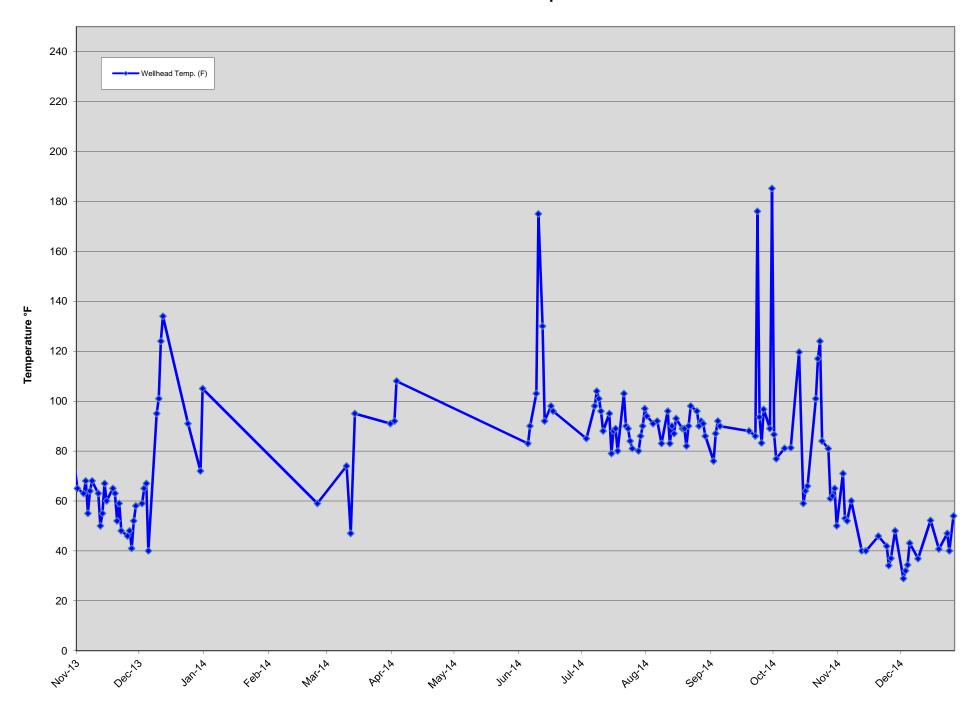
GIW-2 Wellhead Temperatures



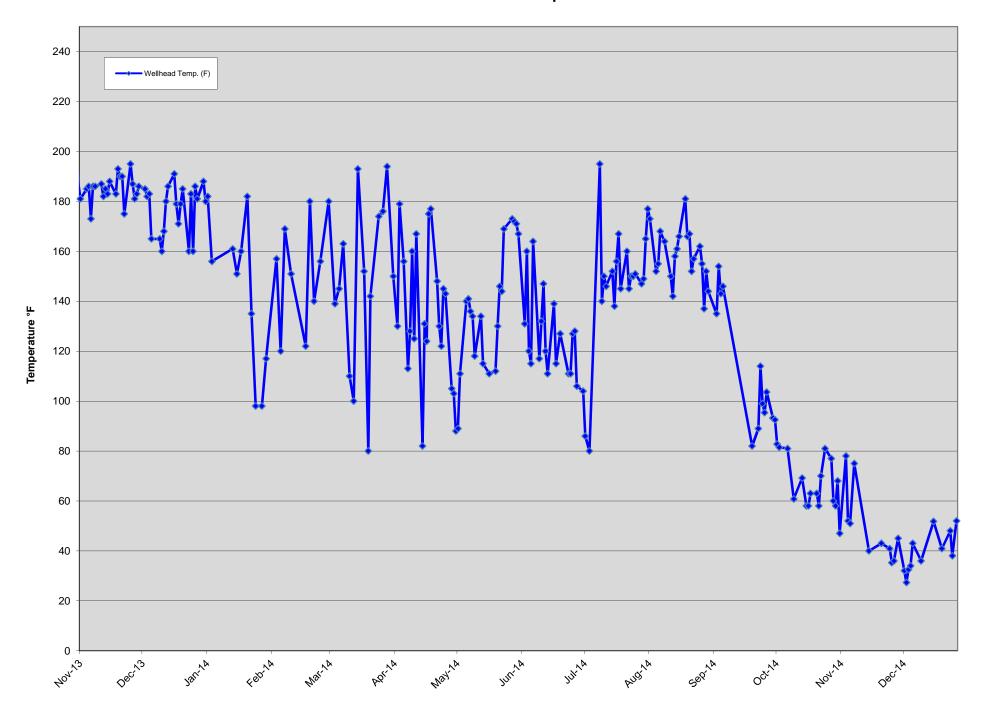
GIW-3 Wellhead Temperatures



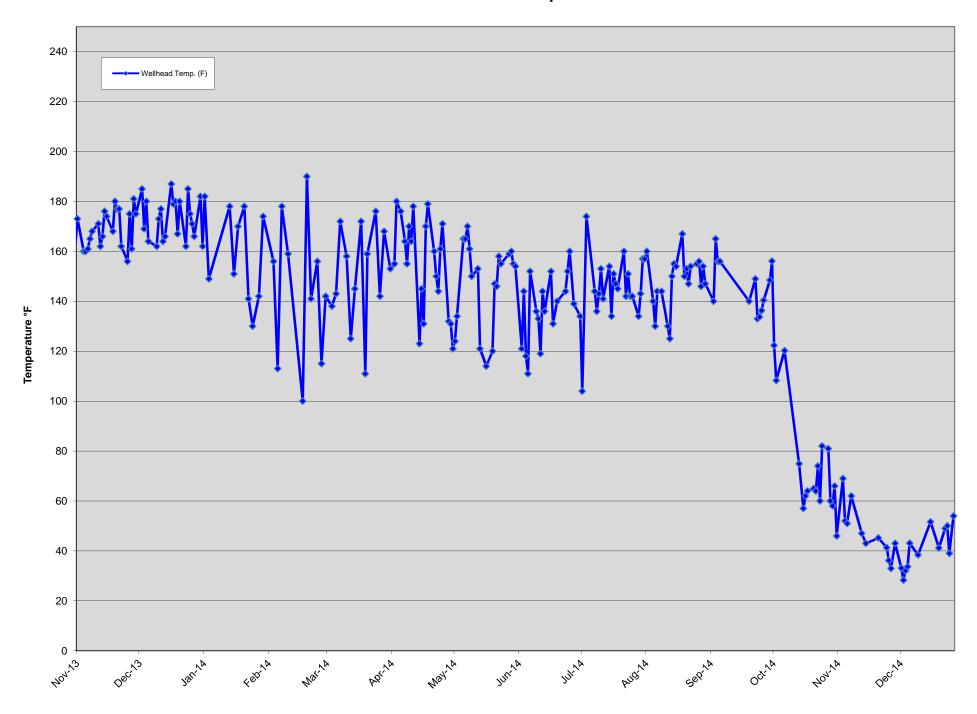
GIW-4 Wellhead Temperatures



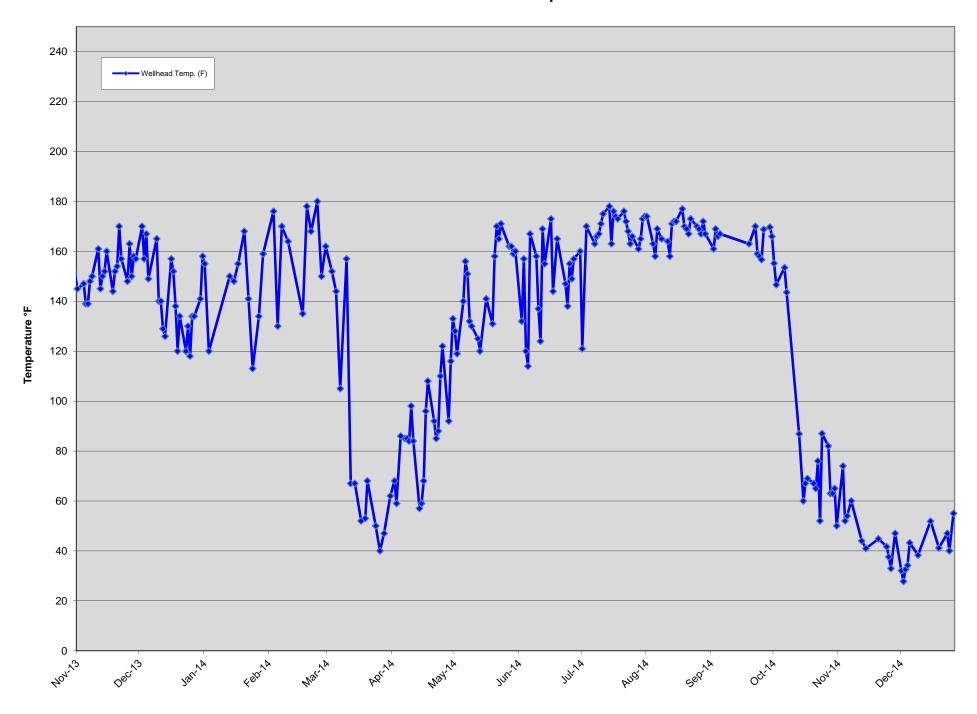
GIW-5 Wellhead Temperatures



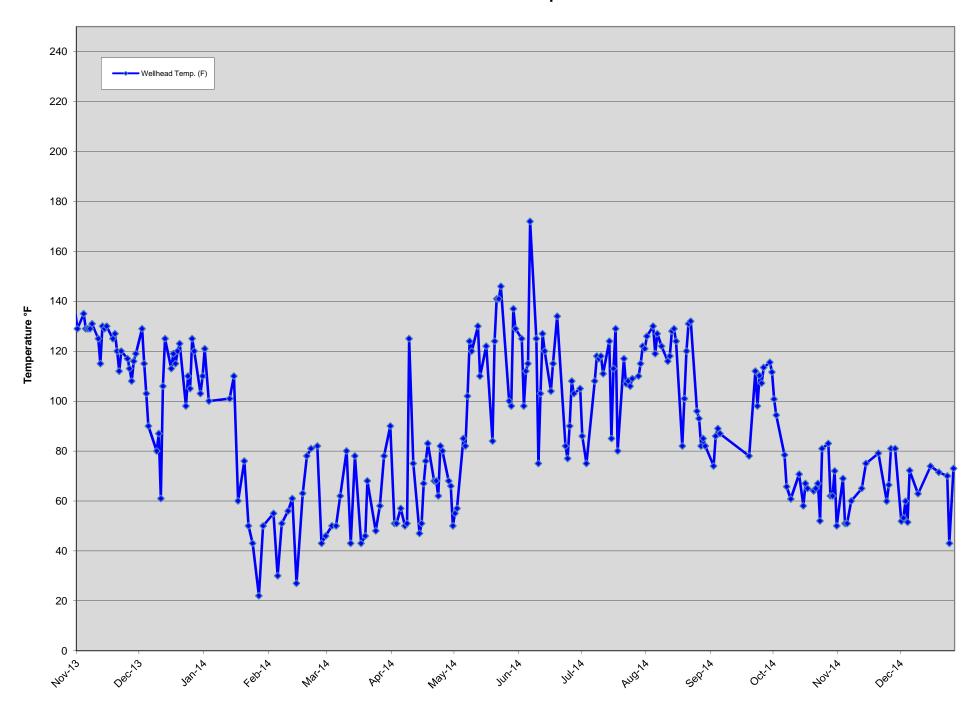
GIW-6 Wellhead Temperatures



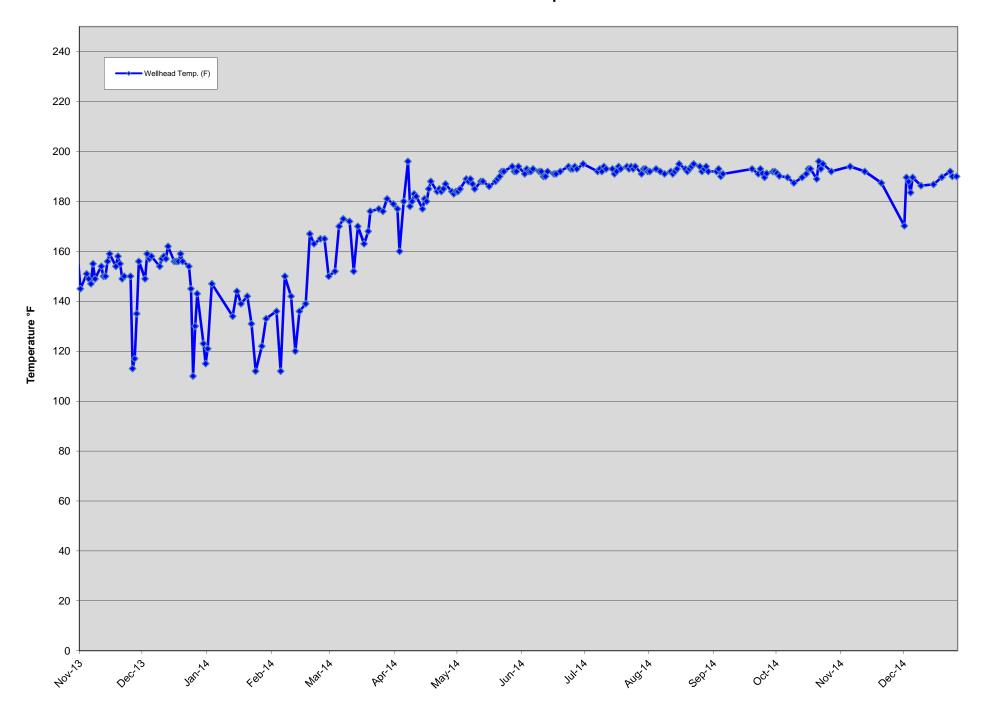
GIW-7 Wellhead Temperatures



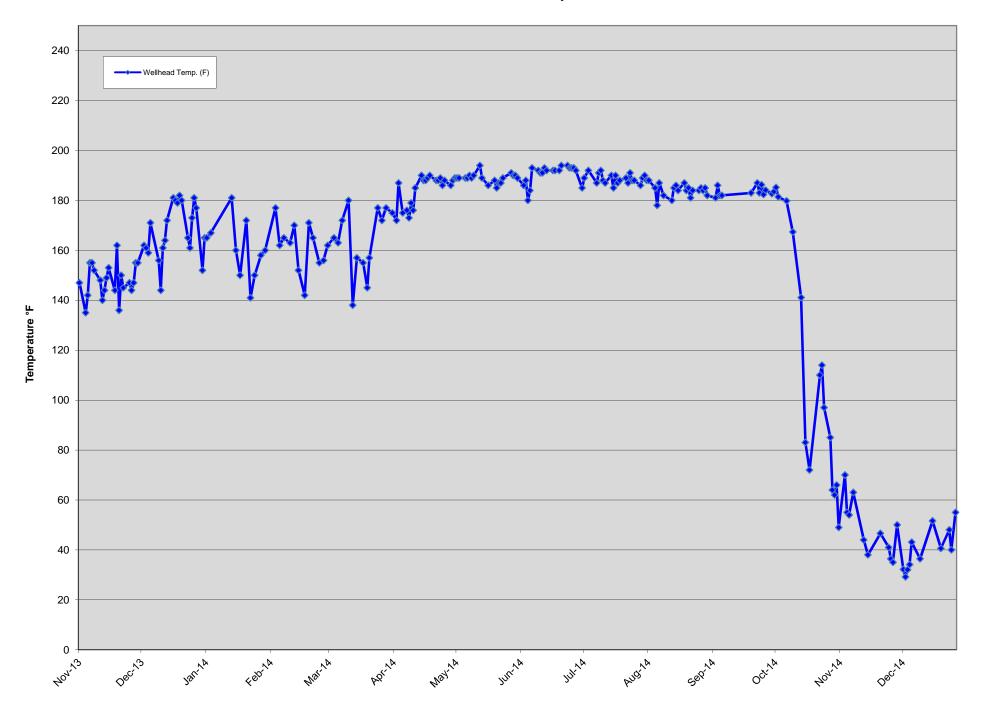
GIW-8 Wellhead Temperatures



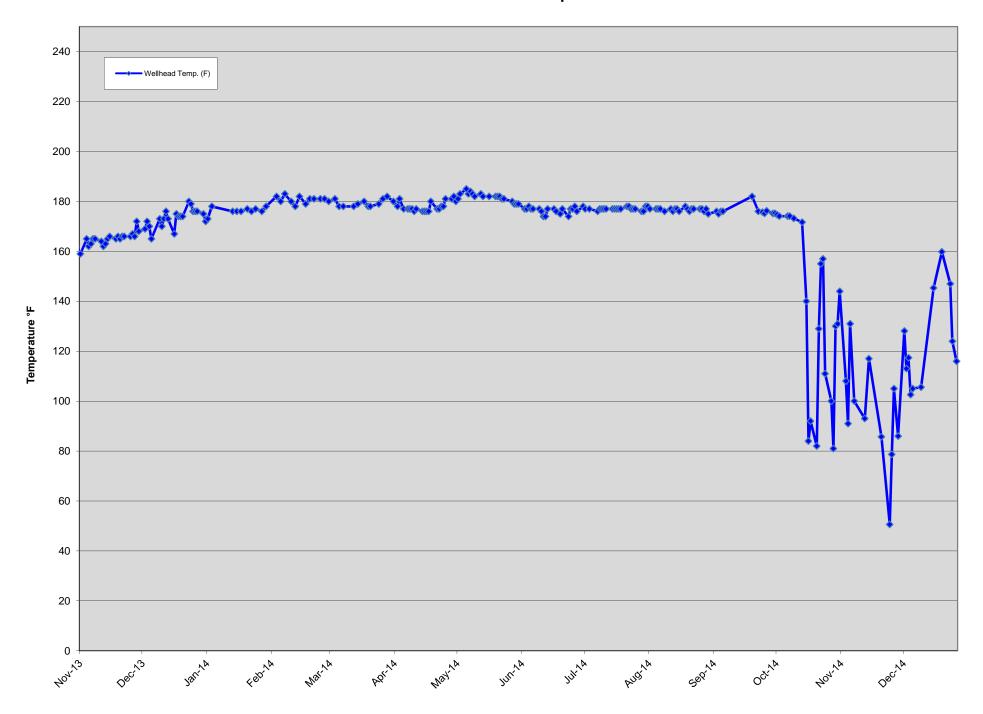
GIW-9 Wellhead Temperatures



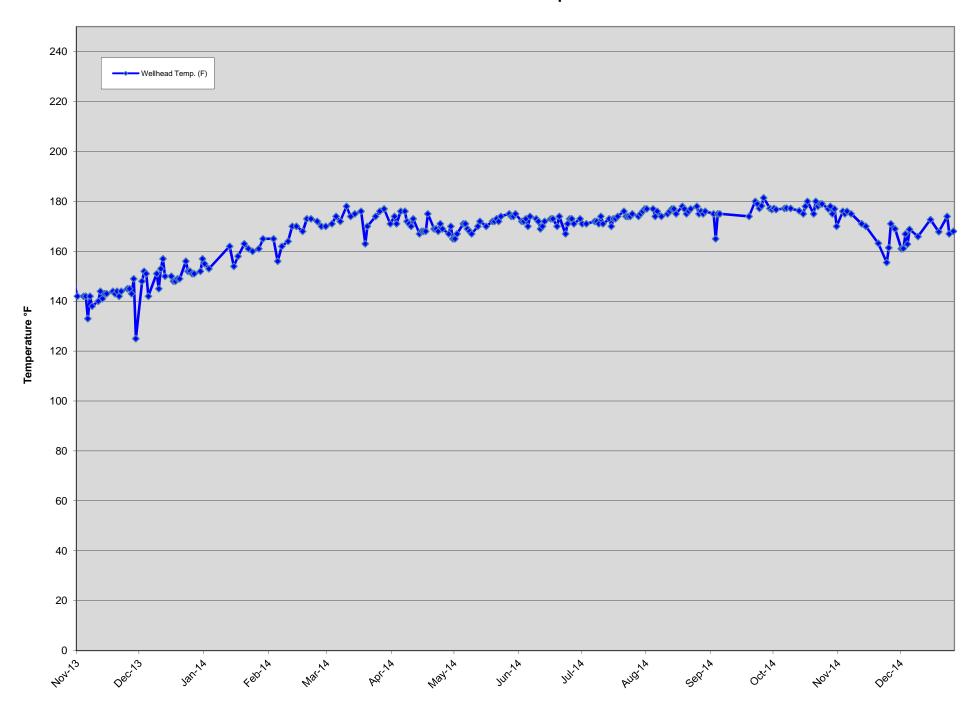
GIW-10 Wellhead Temperatures



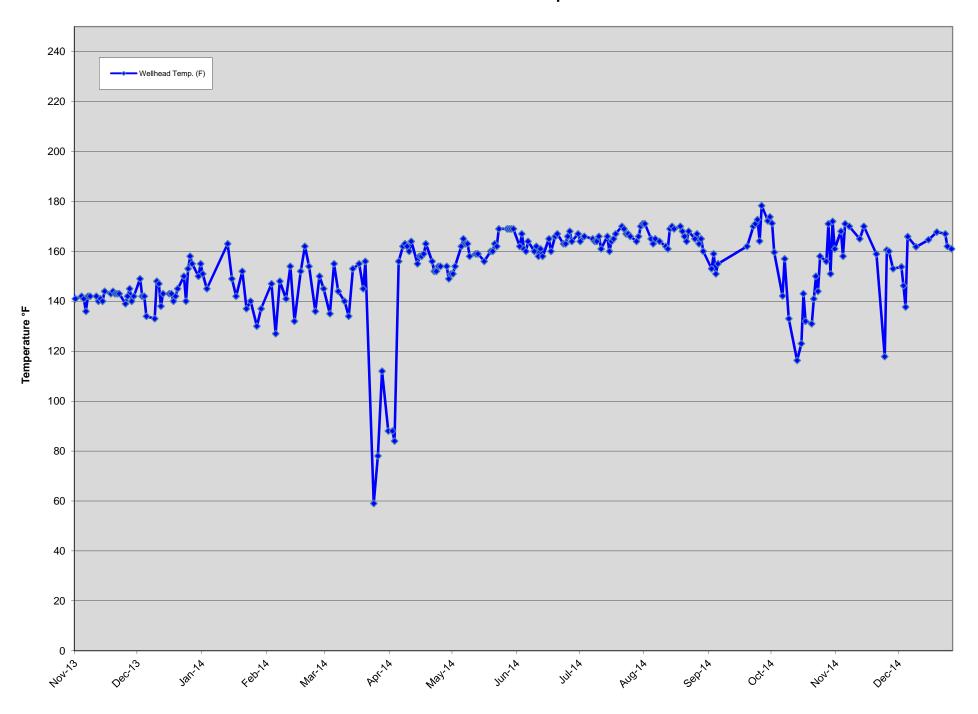
GIW-11 Wellhead Temperatures

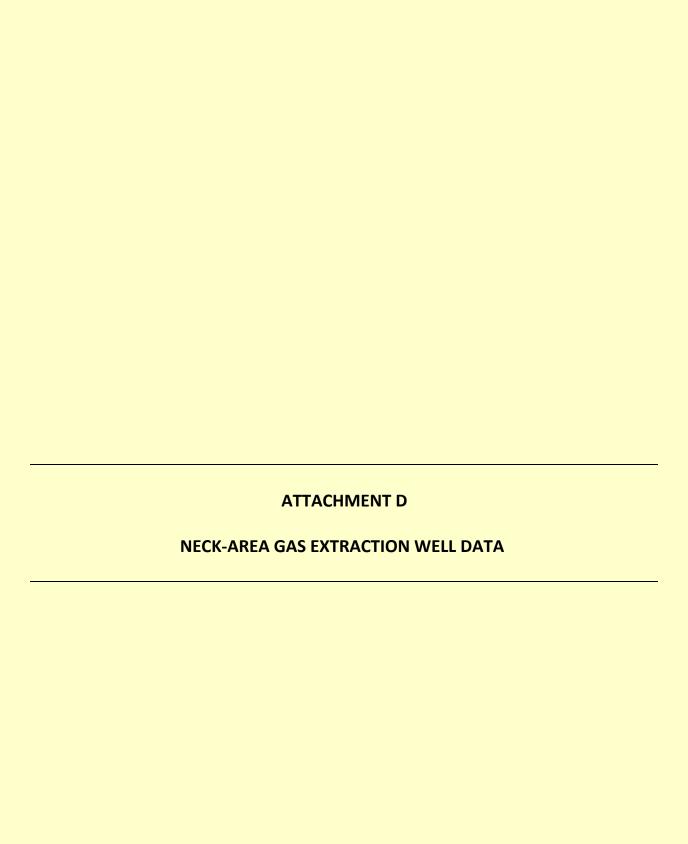


GIW-12 Wellhead Temperatures

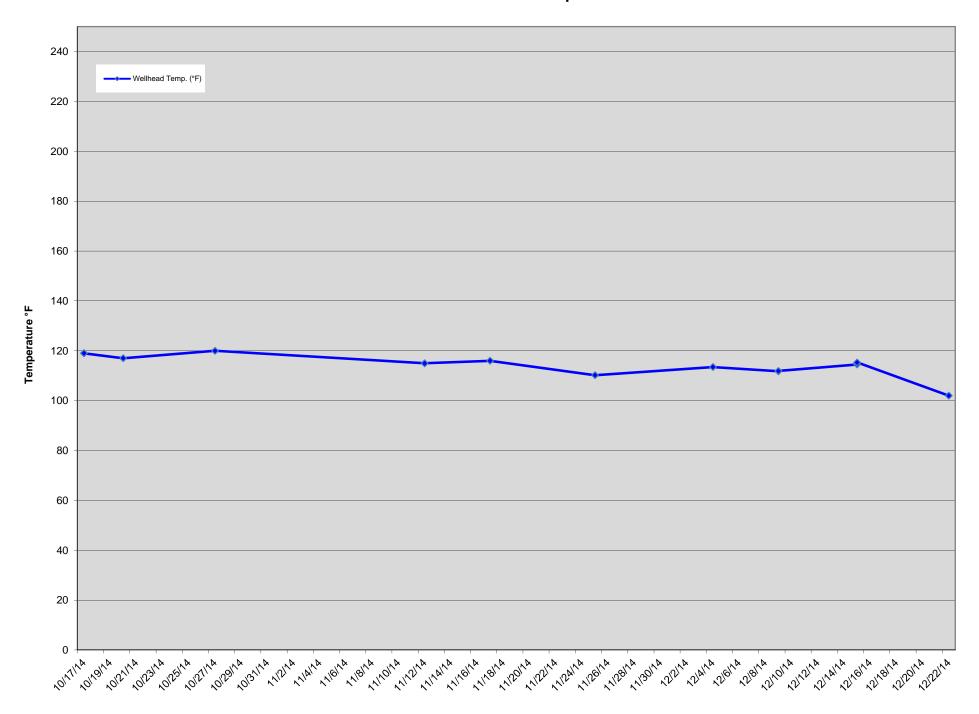


GIW-13 Wellhead Temperatures

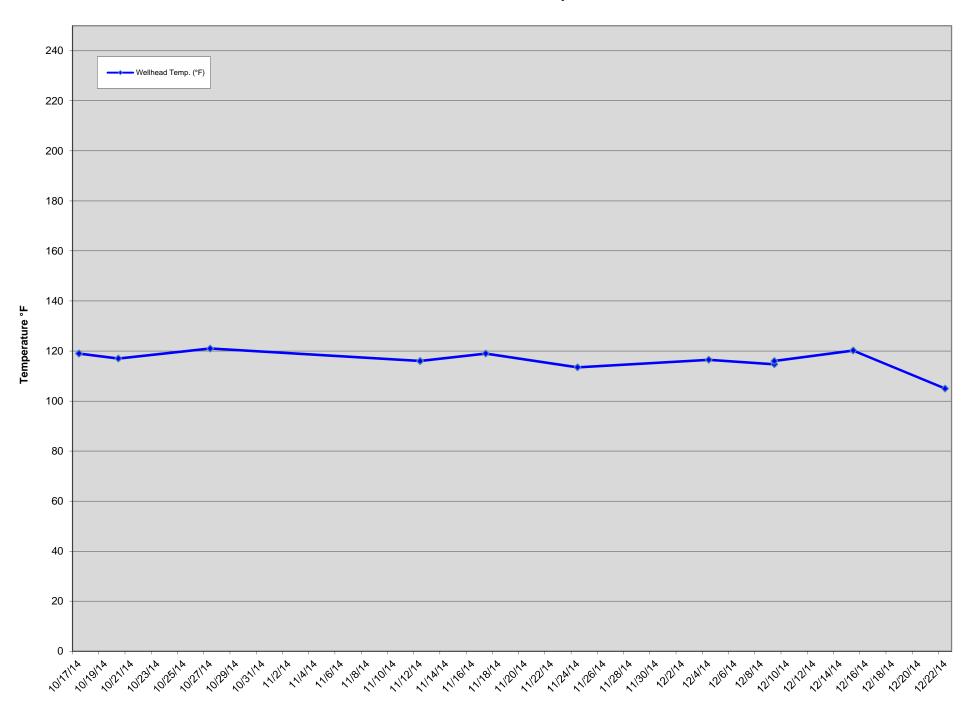




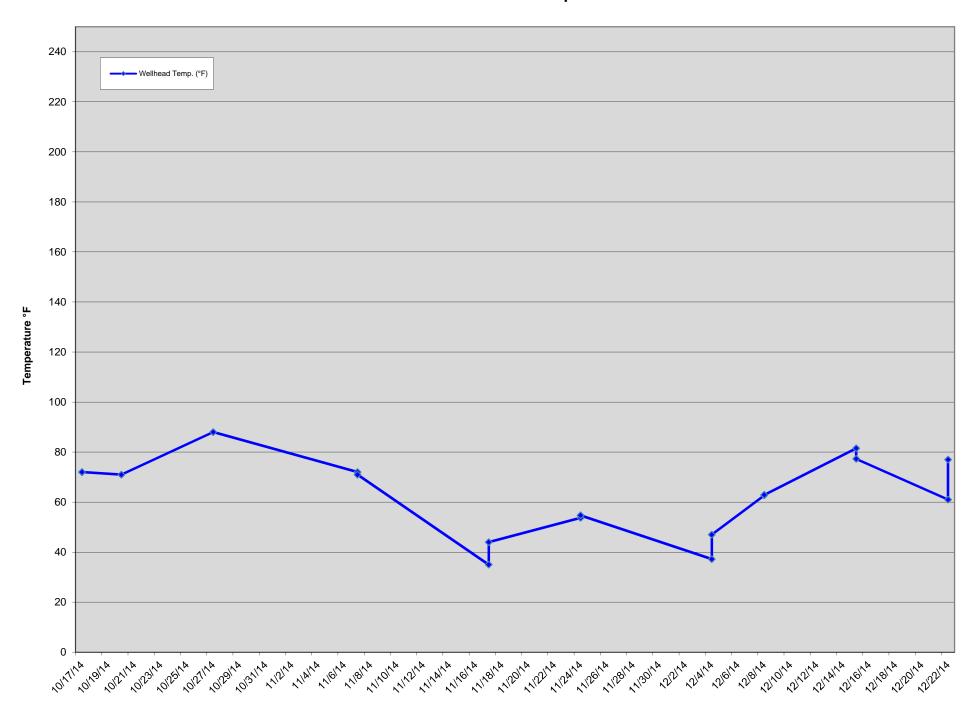
GEW-08 Wellhead Temperatures



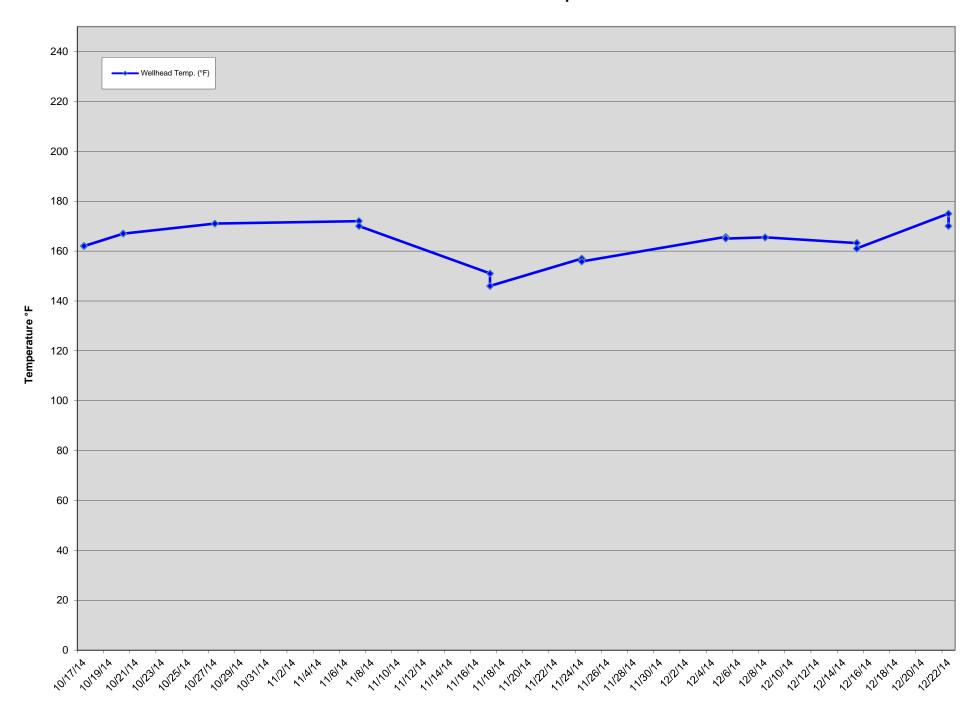
GEW-09 Wellhead Temperatures



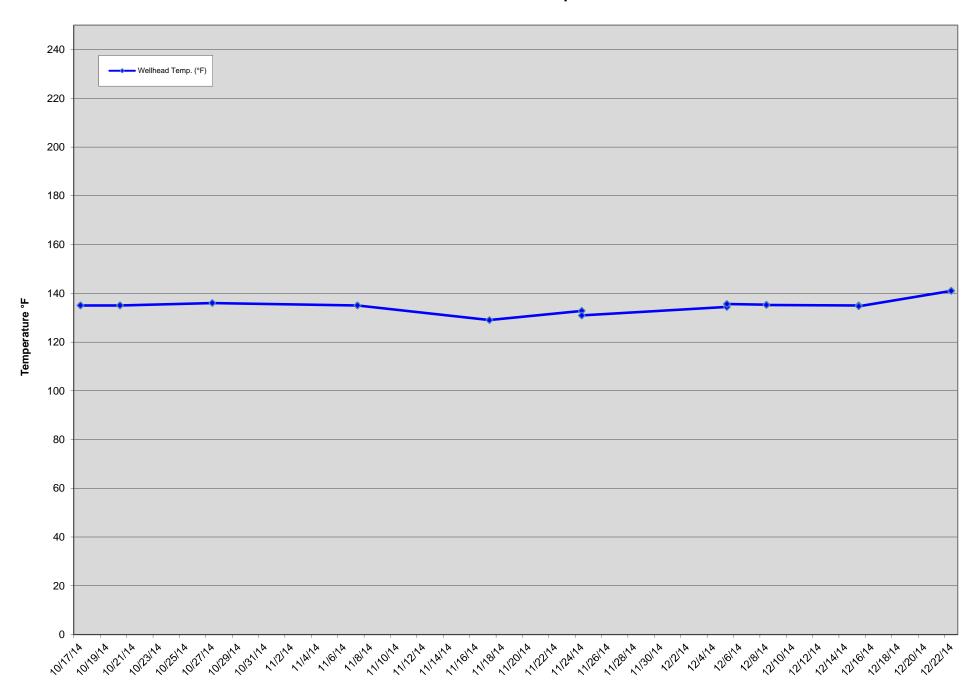
GEW-10 Wellhead Temperatures



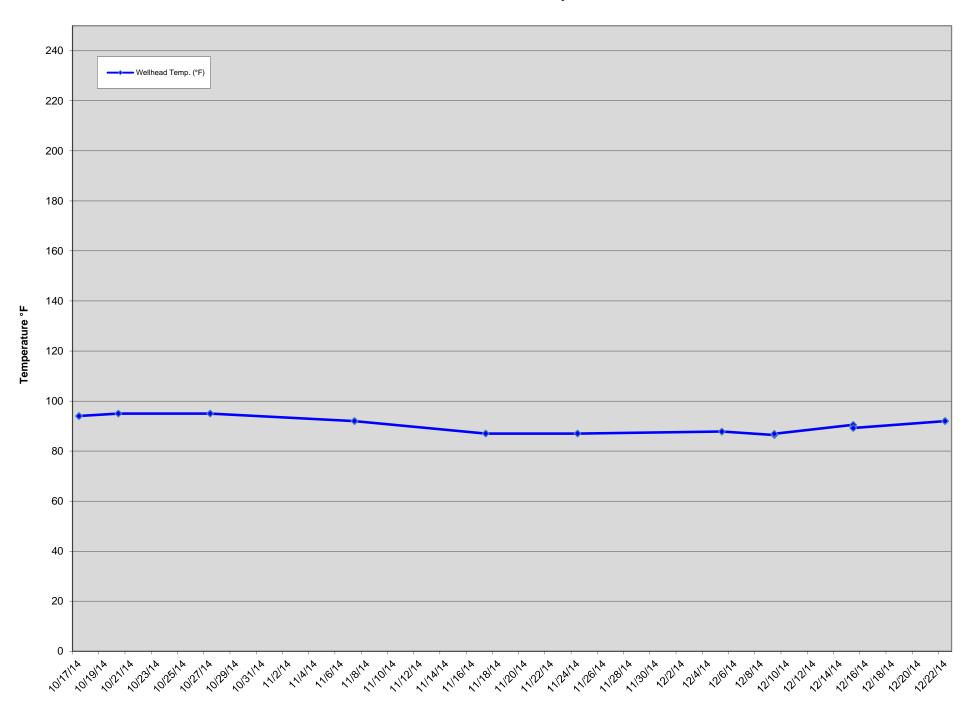
GEW-38 Wellhead Temperatures



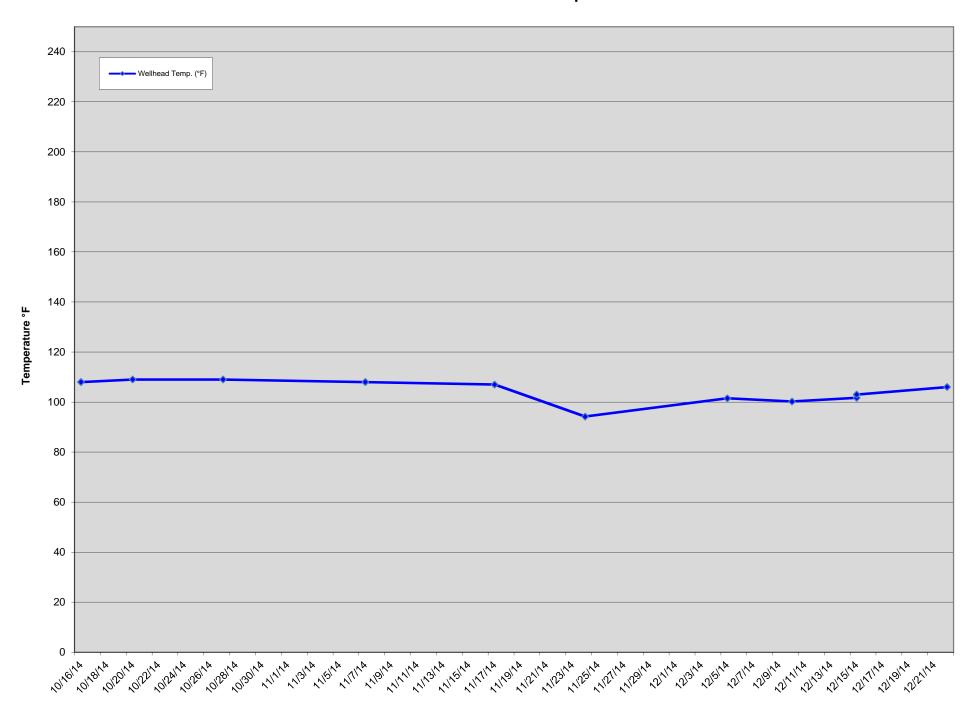
GEW-39 Wellhead Temperatures



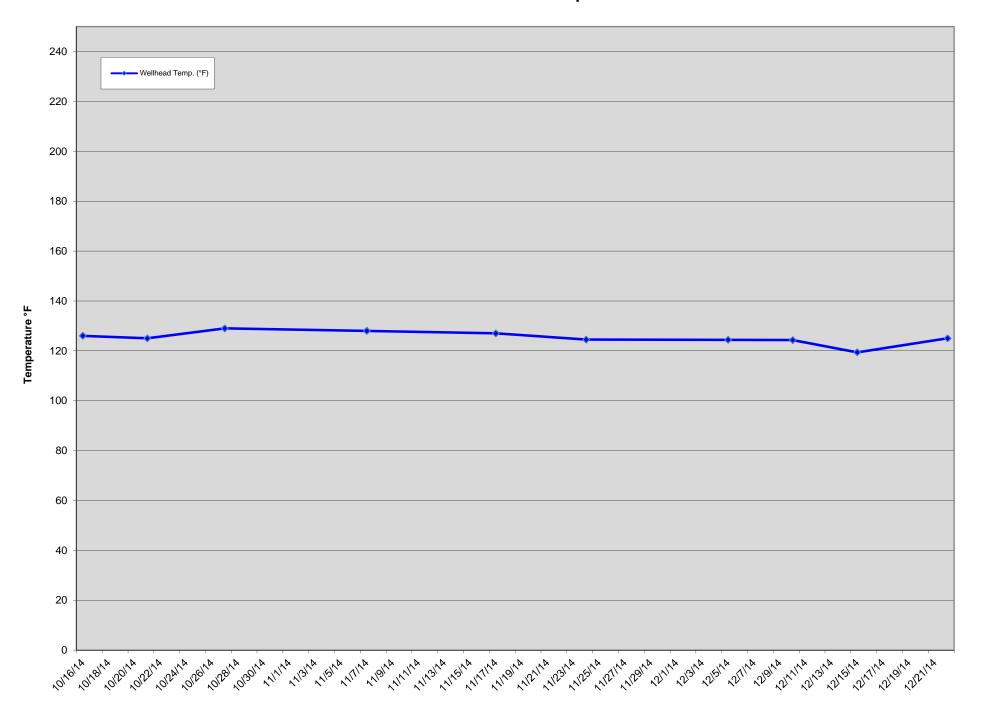
GEW-40 Wellhead Temperatures



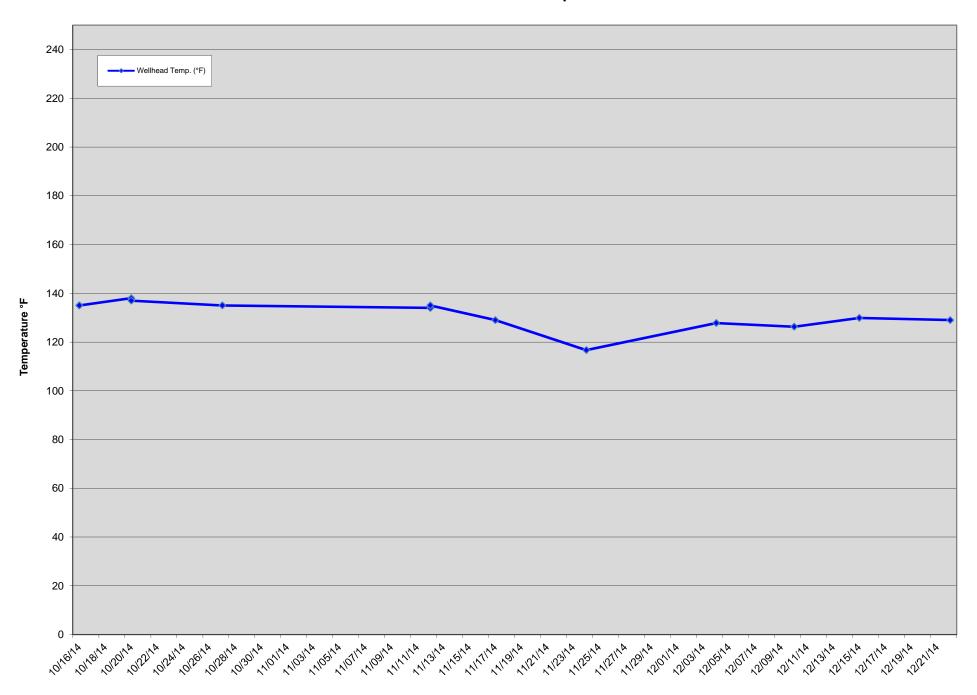
GEW-41R Wellhead Temperatures



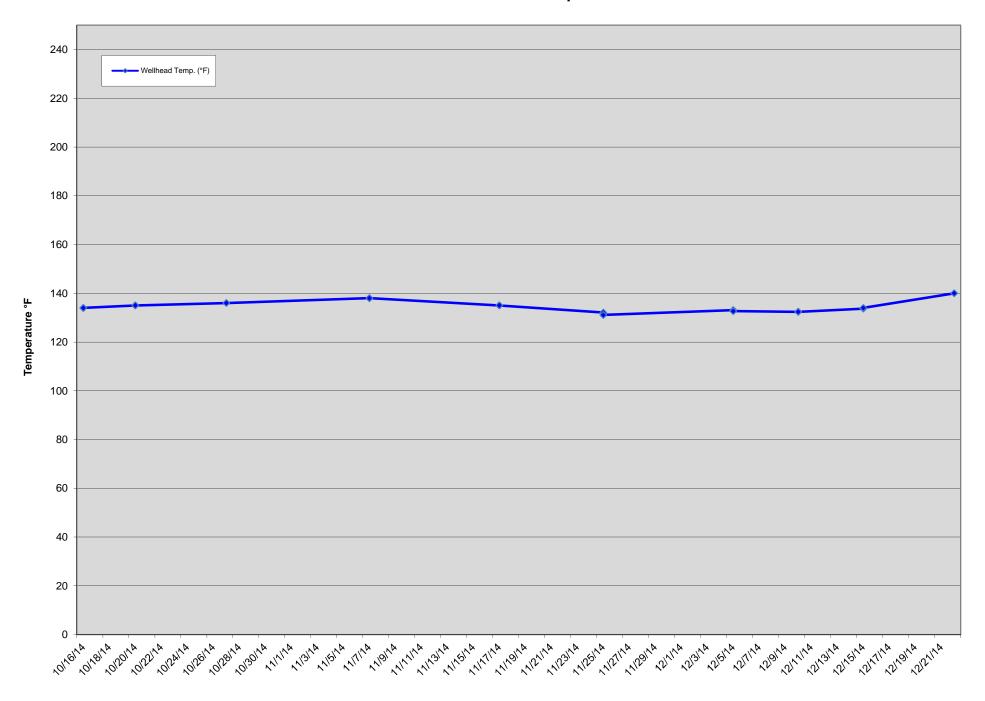
GEW-43R Wellhead Temperatures



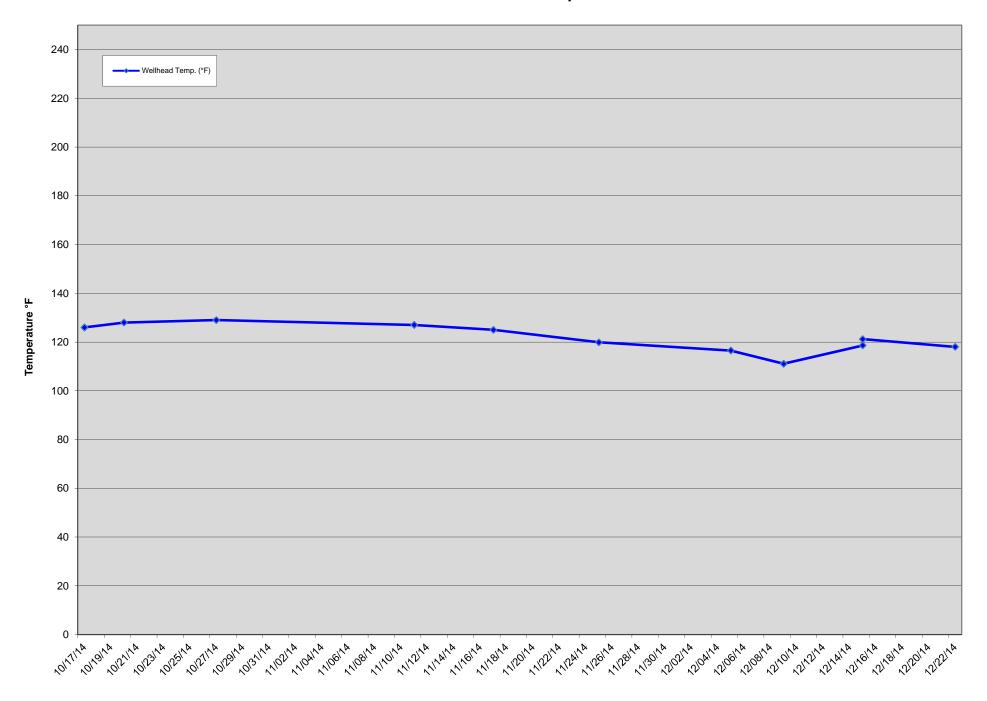
GEW-53 Wellhead Temperatures



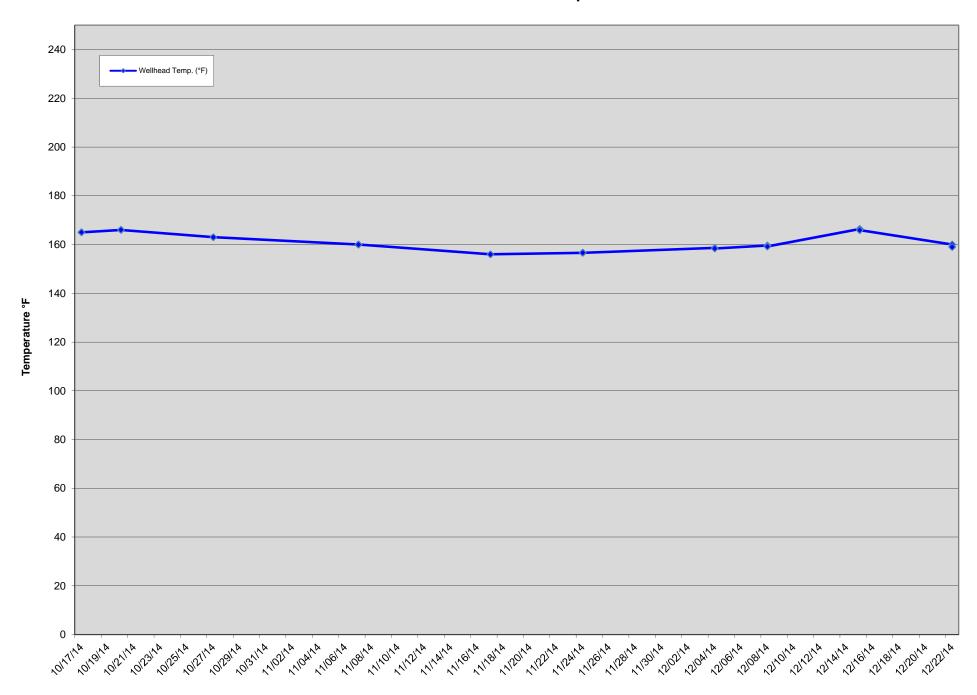
GEW-54 Wellhead Temperatures



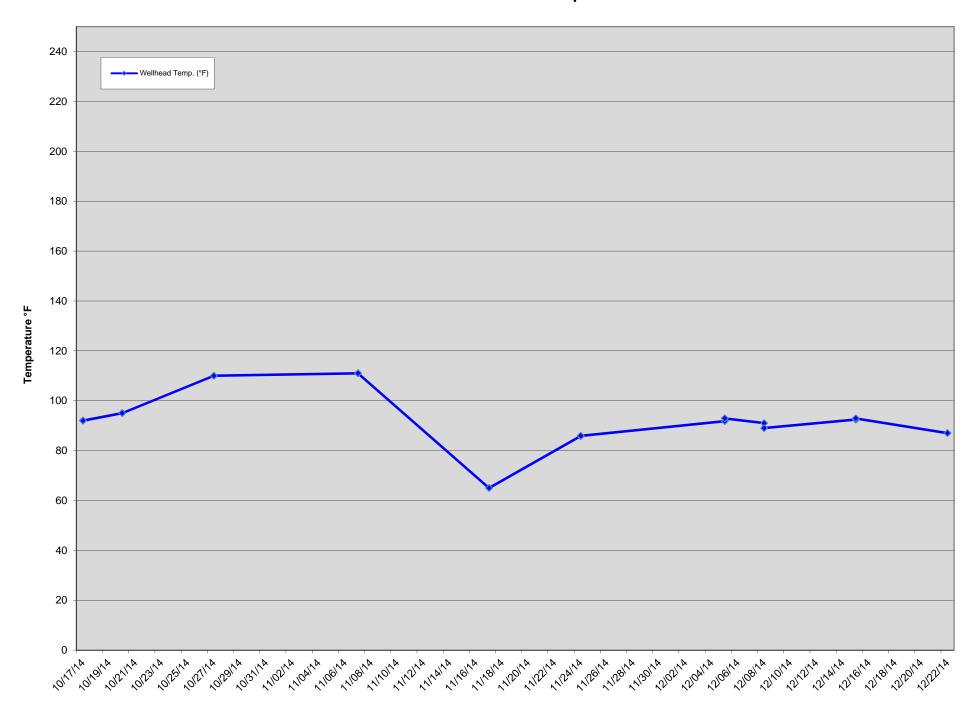
GEW-55 Wellhead Temperatures



GEW-56R Wellhead Temperatures



GEW-109 Wellhead Temperatures



GEW-110 Wellhead Temperatures

