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Routine Calculations Report
In Support of Task 6 of AP-114

WIPP-11 February 2005 Pumping Test Observation Well Data Processing - Summary of Files

(AP-114: Analysis Plan for Evaluation and Recalibration of Culebra Transmissivity Fields, ERMS# 537208)

WBS 1.4.2.3

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WIPP-11 February 2005 Pumping Test Observation Well Data Processing – Summary of Files

The following sections describe the pre-processing, including corrections for barometric and earth tides and detrending when necessary, that was performed on the observation well data from the WIPP-11 pumping test performed in February 2005. The sections are separated by well, except the calculation of freshwater heads section and the computer codes for the macros used at the end of the document which are applicable to all of the wells.

During detrending, basic slope calculations were performed in Excel. For each dataset, a linear regression was applied to each trendline.

Each of the well sections below refers to specific data files that were created for each observation well data set. These data sets have been compiled into one data file called WIPP-11 Compiled Response Well Data.xls.

H-6b

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at H-6b between 10/14/2004 and 10/4/2005. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed was SN17353 2004-10-14 112016 H-6b(C3).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved as H-6b(C3).xls.
2. The first 3 records of H-6b(C3).xls were deleted since they were not representative of the pressure at the installed depth. These records were recorded during Troll installation in the well.
3. A worksheet called WL H-6b(C3) was created in the H-6b(C3).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as WL H-6b(C3).csv.
4. A barometric pressure record was obtained for the corresponding time period to H-6b between 9/10/2004 and 1/5/2006. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv

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5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file H-6b between 9/10/2004 and 1/5/2006. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.
6. MatchRecords written in C++, source attached, was used to match pressure head records from WL H-6b(C3).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET H-6b(C3).csv.
7. WLBPET H-6b(C3).csv was opened in EXCEL and saved as excel file WLBPET H-6b(C3).xls.
8. WLBPET H-6b(C3).xls was saved as WLBPET H-6b(C3) Filtered.xls. WLBPET H-6b(C3) Filtered.xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

   This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET H-6b(C3) Filtered.xls.
9. WLBPET H-6b(C3) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 18 records (18 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET H-6b(C3) Corrected.xls
10. The corrected pressure head records are highlighted in yellow in WLBPET H-6b(C3) Corrected.xls and on worksheet H-6b in WIPP-11 Compiled Response Well Data.xls.

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Detrending

1. A new chart was added to WLBPET H-6b(C3) Corrected.xls named PSI corrected. The chart is a scatter plot of the corrected data from columns H and I in worksheet WLBPET H-6b(C3).
2. A new series was added to the chart to plot just the pretest data that reflects an upward trend in water levels prior to drawdown from the WIPP-11 Feb. 2005 pumping test. This includes records 1-276 in the worksheet.
3. A linear trendline was added to the chart reflecting the best fit line to the pre-test water level trend. The equation for this line is displayed on the chart. The slope of the line was +0.0091 PSI/Day.
4. A column was added to the WLBPET H-6b(C3) Corrected.xls workbook in worksheet WLBPET H-6b(C3) Corrected. The column was added as column J. Each cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2
5. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.00328 PSI/day. The formula used was K*=J* x 0.00328
6. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta. The detrended pressure records were added as a series to the chart PSI Corrected.

SNL-1

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at SNL-1 between 12/14/05 and 3/3/05. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll pressure head data files processed are ...\SN13590 2004-12-14 122547 SNL-1(C3).bin and ...\SN13590 2005-02-15 144024 SNL-1(C4).bin, located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll files were exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached.
2. The pre-processed Troll files were compiled in one larger file with both the ...\SN13590 2004-12-14 122547 SNL-1(C3).bin and ...\SN13590 2005-02-15 144024 SNL-1(C4).bin data. The compilation file was saved as SNL-1 12-14-04 to 3-3-05.xls. The PSIOUT worksheet from SNL-1 12-14-04 to 3-3-05.xls was saved as a *.csv file named SNL-1 WL 12-14-04 to 3-3-05.csv.
3. A barometric pressure record was obtained for the corresponding time period to SNL-1 12-14-04 to 3-3-05.xls. This record was obtained from ...\SN11209 2005-01-18 152436 H-9c(BARO5).bin. The file ...\SN11209 2005-01-18 152436 H-9c(BARO5).bin was reduced to two columns A for DATETIME (DECIMAL

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DAYS) and B for Barometric Pressure (PSI) this sheet was saved to H-9BARO 1-18-05 1-03-06.csv.

4. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file SNL-1 12-14-04 to 3-3-05.xls. An earth tide timeseries was created at 10 minute intervals for the SNL-1 latitude, longitude, and elevation. The time series was saved to SNL-1 ET 01-01-05 to 12-31-05.csv.
5. MatchRecords written in C++, source attached, was used to match pressure head records from SNL-1 WL 12-14-04 to 3-3-05.csv to Barometric Pressure records from H-9BARO 1-18-05 1-03-06.csv and then earth tide records from SNL-1 ET 01-01-05 to 12-31-05.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as SNL-1 WLBPET 12-14-04 to 3-3-05.csv.
6. All records prior to 1/18/05 16:17 were deleted from SNL-1 WLBPET 12-14-04 to 3-3-05.csv. The records were filtered to remove any records that were not on 25:00 or 40:00 minutes after the hour. This filtered data set was saved as SNL-1 WLBPET 1-18-05 to 3-3-05.xls
7. SNL-1 WLBPET 1-18-05 to 3-3-05.xls was loaded as input into validated code BETCO version 1.0 and corrected using a memory value, m, of 12 measurements, and a time differencing interval of one measurement. The output was saved as two additional columns to SNL-1 WLBPET 1-18-05 to 3-3-05.xls named BAROcorrectTime and Corrected-Pressure.
8. This file was saved as SNL-1 WLBPET 1-18-05 to 3-3-05 Corrected.xls and the data were copied to worksheet SNL-1 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. A new chart was added to SNL-1 WLBPET 1-18-05 to 3-3-05 Corrected.xls named PSI corrected. The chart is a scatter plot of the corrected data from columns H and I in worksheet SNL-1 WLBPET 12-14-04 to 3-3-05.
2. A new series was added to the chart to plot just the pretest data that reflects an upward trend in water levels prior to drawdown from the WIPP-11 Feb. 2005 pumping test. This includes records 1-276 in the worksheet.
3. A linear trendline was added to the chart reflecting the best fit line to the pre-test water level trend. The equation for this line is displayed on the chart. The slope of the line was +0.0091 PSI/Day.
4. A column was added to the SNL-1 WLBPET 1-18-05 to 3-3-05 Corrected.xls workbook in worksheet SNL-1 WLBPET 12-14-04 to 3-3-05. The column was added as column J. Each cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2

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5. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.0091 PSI/day. The formula used was K*=J*x 0.0091
6. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
7. The detrended pressure records were added as a series to the chart PSI Corrected.

SNL-2

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at SNL-2 between 1/25/05 and 7/27/05. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data files processed are SN13562 2005-01-25 093319 SNL-2(C13).bin and SN13562 2005-02-28 140000 SNL-2(C14).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll Files were exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved to two excel files SNL-2(C13).xls and SNL-2(C14).xls, respectively.
2. The pressure records from SNL-2(C14).xls were added to the end of SNL-2(C13).xls and the larger period of data was saved to SNL-2(C13-C14 compilation).xls
3. The PSI worksheet in SNL-2(C13-C14 Compilation).xls was copied to a new worksheet in the same file called PSI shifted.
4. A new Column was added to the PSI shifted worksheet called PSI shifted.
5. An offset in the pressure data exists at the break between the C13 Troll file and C14 Troll file. The offset was calculated at 9.557 PSI by subtracting the last pressure head measurement from the C13 file from the first stable measurement from the C14 file at 2/28/05 17:00:00 hours. All pressure records from the C13 file were copied to the PSI shifted column. The PSI column for the C14 records was filled with a formula to shift the C14 pressure records to the C13 records. The formula is: E*=D*-9.557
6. A worksheet called WL SNL-2(C13-C14 Compilation) was created in the SNL-2(C13-C14 compilation).xls file. The DecimalDay column was copied from the PSI SHIFTED worksheet along with the corresponding PSI SHIFTED column. This worksheet was saved as WL SNL-2(C13-C14 compilation).csv.
7. A barometric pressure record was obtained for the corresponding time period to SNL-2 between 9/10/2004 and 1/5/2006. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above

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were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv

8. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file SNL-2 between 9/10/2004 and 1/5/2006. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.
9. MatchRecords written in C++, source attached, was used to match pressure head records from WL SNL-2 (C13-C14 compilation).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET SNL-2(C13-C14 compilation).csv.
10. WLBPET SNL-2(C13-C14 compilation).csv was opened in EXCEL and saved as an excel file to WLBPET SNL-2(C13-C14 compilation).xls.
11. WLBPET SNL-2(C13-C14 compilation).xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter and consists of the formula:

    G*=IF(MINUTE(A*)=default sampling minute,1,0)

    This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET SNL-2(C13-C14 compilation) Filtered.xls
12. WLBPET SNL-2(C13-C14 compilation) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 7 records (7 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET SNL-2(C13-C14 compilation) Corrected.xls.
13. The corrected pressure head records are highlighted in yellow in SNL-2(C13-C14 compilation) Corrected.xls and the data were copied to worksheet SNL-2 in WIPP-11 Compiled Response Well Data.xls.

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SNL-3

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at SNL-3 between 5-3-04 and 1-5-06. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data files processed are SN11028 2004-05-03 111511 SNL-3(C2).bin and SN11028 2005-04-13 140000 SNL-3(C3).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll files were exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal datetime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved to two excel files SNL-3(C2).xls and SNL-3(C3).xls, respectively.
2. The pressure records from SNL-3(C2).xls were added to the end of SNL-3(C3).xls and the larger period of data was saved to SNL-3(C2-C3 compilation).xls
3. A worksheet called PSI OUT was created in the SNL-3(C2-C3 compilation).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as SNL-3 WL 5-3-04 to 1-5-06.csv
4. A barometric pressure record was obtained for the corresponding time period to SNL-3 WL 5-3-04 to 1-5-06.csv. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package ERMS# 542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as SNL-3 BARO 9-10-04 to 1-3-06.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file SNL-3 WL 5-3-04 to 1-5-06.csv. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to SNL-3 ET 1-1-04 to 6-7-06.csv.
6. MatchRecords written in C++, source attached, was used to match pressure head records from SNL-3 WL 5-3-04 to 1-5-06.csv to Barometric Pressure records from SNL-3 BARO 9-10-04 to 1-3-06.csv and then earth tide records from SNL-3 ET 1-1-04 to 6-7-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as SNL-3 WLBPET 5-3-04 to 1-5-06.csv
7. SNL-3 WLBPET 5-3-04 to 1-5-06.csv was opened in EXCEL and saved as an excel file to SNL-3 WLBPET 5-3-04 to 1-5-06.xls.

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8. SNL-3 WLBPET 5-3-04 to 1-5-06.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 12 records (12 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file SNL-3 WLBPET 5-3-04 to 1-5-06 Corrected.xls.
9. The corrected pressure head records are highlighted in yellow on the SNL-3 WLBPET 5-3-04 to 1-5-06.xls and the data were copied to worksheet SNL-3 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In file SNL-3 WLBPET 5-3-04 to 1-5-06 Corrected.xls a trend series was added for the portion of the corrected pressure ranging from decimal days since 38271 to 38333 1/1/1900 00:00:00 in the PSI CORRECTED sheet.
2. A trendline was fit to the above series with the equation y=0.0091x-268.76 with an R^2 value of 0.9846.
3. The slope between the last point prior to pumping in WIPP-11 and the last point the dataset was used to obtain another trend slope. This slope was calculated as 0.004045 PSI/Day by the formula:
    - Slope= PSI(2)-PSI(1)/DATETIME(2)-DATETIME(1)
    - Slope= (80.54-79.1777)/(38385.1355-38721.96)
4. A column was added to the SNL-3 WLBPET 5-3-04 to 1-5-06 Corrected.xls workbook in worksheet SNL-3 WLBPET 5-3-04 to 1-5-06. The column was added at column J. Each cell in the column calculated the elapsed day of record since the first record by the formula: J*=H*-H2
5. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.004045 PSI/day (Calculated in step 3). The formula used was K*=J* x 0.004045
6. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
7. The detrended pressure records were added as a series to the chart PSI Corrected.

<u>SNL-5</u>

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at SNL-5 between 9/10/2004 and 1/5/2006. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data files processed are ...\SN04558 2004-09-10 134143 SNL-5(C3).bin and ...\SN11306 2005-04-01 140000 SNL-5(C4).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll Files were exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also

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reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved to two excel files ...\SN04558 2004-09-10 134143 SNL-5(C3).xls and ...\SN11306 2005-04-01 140000 SNL-5(C4).xls.

2. The pressure records from ...\SN11306 2005-04-01 140000 SNL-5(C4).xls were added to the end of ....\SN04558 2004-09-10 134143 SNL-5(C3).xls and the larger period of data was saved to SNL-5(C3-C4 compilation).xls
3. A worksheet called PSI out was created in the SNL-5(C3-C4 compilation).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding pressure. This worksheet was saved as WL SNL-5(C3-C4 compilation).csv.
4. A barometric pressure record was obtained for the corresponding time period to SNL-5 between 9/10/2004 and 1/5/2006. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file SNL-5 between 9/10/2004 and 1/5/2006. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.
6. MatchRecords written in C++, source attached, was used to match pressure head records from WL SNL-5(C3-C4 compilation).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET SNL-5(C3-C4 compilation).csv.
7. WLBPET SNL-5(C3-C4 compilation).csv was opened in Excel and saved as an Excel file to WLBPET SNL-5(C3-C4 compilation).xls.
8. WLBPET SNL-5(C3-C4 compilation).xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

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This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET SNL-5(C3-C4 compilation) Filtered.xls

9. WLBPET SNL-5(C3-C4 compilation) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 7 records (7 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET SNL-5(C3-C4 compilation) Filtered.xls. WLBPET SNL-5(C3-C4 compilation) Filtered.xls was also saved as WLBPET SNL-5(C3-C4 compilation) Corrected.xls.
10. The Corrected pressure head was graphed in WLBPET SNL-5(C3-C4 compilation) Corrected.xls and placed in a new chart called Corrected Raw Data.
11. An offset was identified at 1/18/05 14:41-hours. The corrected data was copied to a new worksheet called WLBPET SNL-5(C3-C4) Shifted. This offset is coincident with the change from one barometric record to another. The change in location or Troll often causes a shift in the barometric record due to differences in elevation or Troll intercept.
12. The corrected values from column I of WLBPET SNL-5(C3-C4) Shifted were copied to column J. 0.14 PSI was subtracted from each observation in column J after 1/18/05 14:41 to correct for the offset.
13. The records in worksheet WLBPET SNL-5(C3-C4) Shifted located in workbook WLBPET SNL-5(C3-C4 compilation) Corrected.xls represent the barometric and earth tide corrected data for SNL-5. The DATETIME column is Column H and the Pressure head column is column J.
14. The corrected pressure head records are highlighted in yellow on the SNL-5 WLBPET(C3-C4 compilation) Corrected.xls and the data were copied to worksheet SNL-5 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In WLBPET SNL-5(C3-C4 Compilation) Corrected.xls the slope between the last point prior to pumping in WIPP-11 and the last point in the dataset was used to obtain a trend slope. This slope was calculated as 0.004301 PSI/day by the formula:
    - Slope= PSI(2)-PSI(1)/DATETIME(2)-DATETIME(1)
    - Slope=(62.5465-61.1096)/(38718.9167-38384.8623)
2. A column was added to the WLBPET SNL-5(C3-C4 Compilation) Corrected.xls workbook in worksheet WLBPET SNL-5(C3-C4) Shifted. The column was added as column K. Each cell in the column calculated the elapsed day of record since the first record by the formula: K*=H*-H2
3. Column L was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.004301 PSI/day. The formula used was L*=K* x 0.004301

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4. Column M was added to calculate the detrended pressure. The formula used was M*=J*-L*. The detrended column is highlighted in magenta.
5. The detrended pressure records were added as a series to the chart Corrected Shifted.

SNL-9

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at SNL-9 between 12/21/04 and 1/03/06. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed is ...\SN17621 2004-12-21 130313 SNL-9(C10).bin, located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll File was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached.
2. The pre-processed Troll file was saved as SNL-9 12-21-04 to 1-3-06.xls. The PSIOUT worksheet from SNL-9 12-21-04 to 1-3-06.xls was saved as a *.csv file named SNL-9 WL 12-21-04 to 1-3-06.csv.
3. A barometric pressure record was obtained for the corresponding time period to SNL-9 12-21-04 to 1-3-06.xls. This record was obtained from ...\SN11209 2005-01-18 152436 H-9c(BARO5).bin. The file ...\SN11209 2005-01-18 152436 H-9c(BARO5).bin was reduced to two columns A for DATETIME (DECIMAL DAYS) and B for Barometric Pressure (PSI) this sheet was saved to H-9BARO 1-18-05 1-03-06.csv.
4. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WIPP-30 12-22-04 to 4-6-05.xls. An earth tide timeseries was created at 10 minute intervals for the SNL-9 latitude, longitude, and elevation. The time series was saved to SNL-9 ET 01-01-05 to 12-31-05.csv.
5. MatchRecords written in C++, source attached, was used to match pressure head records from SNL-9 WL 12-21-04 to 1-3-06.csv to Barometric Pressure records from H-9BARO 1-18-05 1-03-06.csv and then earth tide records from SNL-9 ET 01-01-05 to 12-31-05.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as SNL-9 WLBPET 12-21-04 to 1-3-06.csv.
6. All records prior to 1/18/05 16:17 were deleted from SNL-9 WLBPET 12-21-04 to 8-22-05.csv to remove transients related to prior sampling in the well. The records were filtered to remove any records that were not on 03:00 minutes after

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the hour. This filtered data set was saved as SNL-9 WLBPET 1-18-05 to 8-22-05.xls

7. SNL-9 WLBPET 1-18-05 to 8-22-05.xls was loaded as input into validated code BETCO version 1.0 and corrected using a memory value, m, of 12 measurements, and a time differencing interval of one measurement. The output was saved as two additional columns to SNL-9 WLBPET 1-18-05 to 8-22-05.xls named BAROcorrectTime and Corrected-Pressure.
8. The corrected pressure head records are highlighted in yellow on the SNL-9 WLBPET 1-18-05 to 8-22-05.xls and the data were copied to worksheet SNL-9 in WIPP-11 Compiled Response Well Data.xls.

WIPP-12

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at WIPP-12 between 1/26/2005 and 6/02/2005. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed was SN17333 2005-01-26 110831 WIPP-12(C).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved as WIPP-12(C).xls
2. The first 2 record(s) of WIPP-12(C).xls were deleted since they are not representative of the pressure at the installed depth. The record(s) were recorded during Troll installation in the well.
3. A worksheet called WL WIPP-12(C) was created in the WIPP-12(C).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as WL WIPP-12(C).csv.
4. A barometric pressure record was obtained for the corresponding time period to WIPP-12 between 1/26/2005 and 6/02/2005. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WIPP-12 between 1/26/2005 and 6/02/2005. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.

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6. MatchRecords written in C++, source attached, was used to match pressure head records from WL WIPP-12(C).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET WIPP-12(C).csv.
7. WLBPET WIPP-12(C).csv was opened in EXCEL and saved as an excel file to WLBPET WIPP-12(C).xls.
8. WLBPET WIPP-12(C).xls was saved as WLBPET WIPP-12(C) Filtered.xls. WLBPET WIPP-12(C). Filtered.xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

   This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET WIPP-12(C) Filtered.xls.
9. WLBPET WIPP-12(C) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 10 records (10 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET WIPP-12(C) Corrected.xls. The step response for the WIPP-12 data set was almost a constant zero which indicates that the well/aquifer system has no barometric response regardless of time. As such the correction is minimal and probably unnecessary
10. The Corrected pressure head records are highlighted in yellow in WLBPET WIPP-12(C) Corrected.xls and the data were copied to worksheet WIPP-12 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. A new chart was added to WLBPET WIPP-12(C) Corrected.xls named Corrected. The chart is a scatter plot of the corrected data from columns H and I in worksheet WLBPET WIPP-12(C).

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2. A new series was added to the chart to plot just the pretest data that reflects an upward trend in water levels prior to drawdown from the WIPP-11 Feb. 2005 pumping test. This includes records 62-150 in the worksheet.
3. A linear Trendline was added to the chart reflecting the best fit line to the pre-test water level trend. The equation for this line is displayed on the chart. The slope of the line was +0.0119 PSI/Day.
4. A column was added to the WLBPET WIPP-12(C) Corrected workbook in worksheet WLBPET WIPP-12(C). The column was added at column J. Each cell in the column calculated the detrended pressure by using formula: J*=(0.0119 x (H*H2)), given the upward trend of 0.0119 PSI/day.

WIPP-13

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at WIPP-13 between 10/14/2004 and 7/19/2005. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed was SN17310 2004-10-14 145956 WIPP-13(C2).binlocated on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved WIPP-13(C2).xls.
2. The first record of WIPP-13(C2).xls was deleted since it is not representative of the pressure at the installed depth. The record was recorded during Troll installation in the well.
3. A worksheet called WL WIPP-13(C2) was created in the WIPP-13(C2).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as WL WIPP-13(C2).csv.
4. A barometric pressure record was obtained for the corresponding time period to WIPP-13 between 10/14/2004 and 7/19/2005. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WIPP-13 between 10/14/2004 and 7/19/2005. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.

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6. MatchRecords written in C++, source attached, was used to match pressure head records from WL WIPP-13(C2).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET WIPP-13(C2).csv.
7. WLBPET WIPP-13(C2).csv was opened in EXCEL and saved as an excel file to WLBPET WIPP-13(C2).xls.
8. WLBPET WIPP-13(C2).xls was saved as WLBPET WIPP-13(C2) Filtered.xls. WLBPET WIPP-13(C2) Filtered.xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

   This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET WIPP-13(C2) Filtered.xls.
9. WLBPET WIPP-13(C2) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 18 records (18 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET WIPP-13(C2) Corrected.xls
10. The Corrected pressure head records are highlighted in yellow in WLBPET WIPP-13(C2) Corrected.xls and the data were copied to worksheet WIPP-13 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In WLBPET WIPP-13(C2) Corrected.xls the slope between the last point prior to pumping in WIPP-13 and the last point the dataset was used to obtain another trend slope. This slope was calculated as 0.003084 PSI/Day by the formula:
   - Slope= PSI(2)-PSI(1)/DATETIME(2)-DATETIME(1)
   - Slope=(136.9229-136.402153)/(38552.2916-38383.458)
2. A column was added to the WLBPET WIPP-13(C2) Corrected.xls workbook in worksheet WLBPET WIPP-13(C2). The column was added at column J. Each

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cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2

3. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.003084 PSI/day. The formula used was K*=J* x 0.003084
4. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
5. The detrended pressure records were added as a series to the chart PSI Corrected.

WIPP-30

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at WIPP-30 between 12/22/04 and 4/06/05. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed is ...\SN13475 2004-12-22 121738 WIPP-30 (C2 WQ1).bin, located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll File was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached.
2. The pre-processed Troll file was saved as WIPP-30 12-22-04 to 4-6-05.xls. The PSIOUT worksheet from WIPP-30 12-22-04 to 4-6-05.xls was saved as a *.csv file named WIPP-30WL 12-22-04 to 4-6-05.csv.
3. A barometric pressure record was obtained for the corresponding time period to WIPP-30 12-22-04 to 4-6-05.xls. This record was obtained from ...\SN11209 2005-01-18 152436 H-9c(BARO5).bin. The file ...\SN11209 2005-01-18 152436 H-9c(BARO5).bin was reduced to two columns A for DATETIME (DECIMAL DAYS) and B for Barometric Pressure (PSI) this sheet was saved to H-9BARO 1-18-05 1-03-06.csv.
4. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WIPP-30 12-22-04 to 4-6-05.xls. An earth tide timeseries was created at 10 minute intervals for the WIPP-30 latitude, longitude, and elevation. The time series was saved to WIPP-30 ET 01-01-05 to 12-31-05.csv.
5. MatchRecords written in C++, source attached, was used to match pressure head records from WIPP-30WL 12-22-04 to 4-6-05.csv to Barometric Pressure records from H-9BARO 1-18-05 1-03-06.csv and then earth tide records from WIPP-30 ET 01-01-05 to 12-31-05.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head,

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barometric observations, and earth tide observations was saved as WIPP-30WLBPET 12-22-04 to 4-6-05.csv.

6. All records prior to 1/18/05 16:17 were deleted from WIPP-30WLBPET 12-22-04 to 4-6-05.csv to remove transients related to prior sampling in the well. The records were filtered to remove any records that were not on 17:00 minutes after the hour. This filtered data set was saved as WIPP-30WLBPET 1-18-05 to 4-6-05.xls
7. WIPP-30WLBPET 1-18-05 to 4-6-05.xls was loaded as input into validated code BETCO version 1.0 and corrected using a memory value, m, of 12 measurements, and a time differencing interval of one measurement. The output was saved as two additional columns to WIPP-30WLBPET 1-18-04 to 4-6-05.xls named BAROcorrectTime and Corrected-Pressure.
8. The corrected pressure head records are highlighted in yellow on the WIPP-30 WLBPET 1-18-05 to 4-6-05.xls and the data were copied to worksheet WIPP-30 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In file WIPP-30WLBPET 1-18-05 to 4-6-05 Corrected.xls a trend series was added for the portion of the corrected pressure ranging from decimal days 38371.23 to 38384.3877 since 1/1/1900 00:00:00 in the PSI CORRECTED sheet.
2. A trendline was fit to the above series with the equation y=0.012x-345.99 with an R^2 value of 0.9829
3. A column was added to the WIPP-30WLBPET 1-18-05 to 4-6-05 Corrected.xls workbook in worksheet WIPP-30WLBPET 1-18-05 to 4-6-05. The column was added at column J. Each cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2
4. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.0012 PSI/day. The formula used was K*=J* x 0.012
5. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
6. The detrended pressure records were added as a series to the chart PSI Corrected.

<u>WQSP-1</u>

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at WQSP-1 between 1/26/2005 and 4/05/2005. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed was SN18823 2005-01-26 081815 WQSP-1(C).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI

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column. The macro is attached. The pre-processed excel files were saved WQSP-1(C).xls

2. The first 2 record(s) of WQSP-1(C).xls were deleted since they are not representative of the pressure at the installed depth. The record(s) were recorded during Troll installation in the well.
3. A worksheet called WL WQSP-1(C) was created in the WQSP-1(C).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as WL WQSP-1(C).csv.
4. A barometric pressure record was obtained for the corresponding time period to WQSP-1 between 1/26/2005 and 4/05/2005. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WQSP-1 between 1/26/2005 and 4/05/2005. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.
6. MatchRecords written in C++, source attached, was used to match pressure head records from WL WQSP-1(C).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET WQSP-1(C).csv.
7. WLBPET WQSP-1(C).csv was opened in EXCEL and saved as an excel file to WLBPET WQSP-1(C).xls.
8. WLBPET WQSP-1(C).xls was saved as WLBPET WQSP-1(C) Filtered.xls. WLBPET WQSP-1(C). Filtered.xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

   This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending

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method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET WQSP-1(C) Filtered.xls.

9. WLBPET WQSP-1(C) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 6 records (6 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET WQSP-1(C) Corrected.xls
10. The Corrected pressure head records are highlighted in yellow in WLBPET WQSP-1(C) Corrected.xls and the data were copied to worksheet WQSP-1 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In file WLBPET WQSP-1(C) CORRECTED.xls a trend series was added for the portion of the corrected pressure ranging from decimal days since 38378.846 to 38383.346 1/1/1900 00:00:00 in the PSI CORRECTED sheet.
2. A trendline was fit to the above series with the equation y=0.0136x-437.97 with an R^2 value of 0.9529.
3. A column was added to the WLBPET WQSP-1(C) CORRECTED.xls workbook in worksheet SNL WLBPET WQSP-1(C). The column was added at column J. Each cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2
4. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.0136 PSI/day. The formula used was K*=J* x 0.0136
5. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
6. The detrended pressure records were added as a series to the chart PSI Corrected.

<u>WQSP-2</u>

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at WQSP-2 between 1/26/2005 and 4/5/2005. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed was SN18778 2005-01-26 085442 WQSP-2(C).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI column. The macro is attached. The pre-processed excel files were saved WQSP-2(C).xls

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2. The first 3 record(s) of WQSP-2(C).xls were deleted since they are not representative of the pressure at the installed depth. The record(s) were recorded during Troll installation in the well.
3. A worksheet called WL WQSP-2(C) was created in the WQSP-2(C).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as WL WQSP-2(C).csv.
4. A barometric pressure record was obtained for the corresponding time period to WQSP-2 between 1/26/2005 and 4/5/2005. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WQSP-2 between 1/26/2005 and 4/5/2005. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.
6. MatchRecords written in C++, source attached, was used to match pressure head records from WL WQSP-2(C).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET WQSP-2(C).csv.
7. WLBPET WQSP-2(C).csv was opened in EXCEL and saved as an excel file to WLBPET WQSP-2(C).xls.
8. WLBPET WQSP-2(C).xls was saved as WLBPET WQSP-2(C) Filtered.xls WLBPET WQSP-2(C). Filtered.xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

   This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET WQSP-2(C) Filtered.xls.

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9. WLBPET WQSP-2(C) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 10 records (10 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET WQSP-2(C) Corrected.xls. The step response for the WQSP-2 data set was almost a constant zero which indicates that the well/aquifer system has no barometric response regardless of time. As such the correction is minimal and probably unnecessary
10. The Corrected pressure head records are highlighted in yellow in WLBPET WQSP-2(C) Corrected.xls and the data were copied to worksheet WQSP-2 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In file WLBPET WQSP-2(C) CORRECTED.xls a trend series was added for the portion of the corrected pressure ranging from decimal days 38378.846 to 38383.346 since 1/1/1900 00:00:00 in the PSI CORRECTED sheet.
2. A trendline was fit to the above series with the equation y=0.0132x-417.65 with an R^2 value of 0.9252.
3. A column was added to the WLBPET WQSP-2(C) CORRECTED.xls workbook in worksheet WLBPET WQSP-2(C). The column was added at column J. Each cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2
4. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.0132 PSI/day. The formula used was K*=J* x 0.0132
5. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
6. The detrended pressure records were added as a series to the chart PSI Corrected.

<u>WQSP-3</u>

What follows describes the process used to remove barometric and earthtide effects from miniTroll pressure head files collected at WQSP-3 between 1/26/2005 and 4/19/2005. The removal was done using BETCO version 1.0 qualified as per NP 19-1.

The miniTroll data file processed was SN18758 2005-01-26 093254 WQSP-3(C).bin located on the WIPPDATA computer in Carlsbad, NM.

1. The miniTroll was exported from WinSitu 4.x to Microsoft EXCEL Office 2003. A pre-processing macro was run to arrange the columns and add a column to the data recording the original *.bin file for each record. The macro also reduces the data to a new worksheet (PSIOUT) in the workbook that contains just two columns. Column A is the decimal DateTime column, Column B is the PSI

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column. The macro is attached. The pre-processed excel files were saved WQSP-3(C).xls

2. The first 4 record(s) of WQSP-3(C).xls were deleted since they are not representative of the pressure at the installed depth. The record(s) were recorded during Troll installation in the well.
3. A worksheet called WL WQSP-3(C) was created in the WQSP-3(C).xls file. The DecimalDay column was copied from the PSI worksheet along with the corresponding PSI column. This worksheet was saved as WL WQSP-3(C).csv.
4. A barometric pressure record was obtained for the corresponding time period to WQSP-3 between 1/26/2005 and 4/19/2005. This record was obtained from a series of barometric pressure records compiled from various locations at the WIPP site to form a continuous record. This record along with its documentation was submitted to records in record package #542309. Records for the period above were saved as a *.csv file with two columns: DecimalDay and Barometric Pressure. This file was saved as BP compilation between 9-10-2004 and 1-5-2006.csv
5. Qualified acquired software TSOFT was used to create a synthetic earth tide potential record overlapping the period corresponding to the pressure head record in the file WQSP-3 between 1/26/2005 and 4/19/2005. An earth tide timeseries was created at 15-minute intervals for the WIPP Modeling Domain Center latitude, longitude, and elevation. The time series was saved to ET WIPP Model Domain 09-01-04 to 1-5-06.csv.
6. MatchRecords written in C++, source attached, was used to match pressure head records from WL WQSP-3(C).csv to Barometric Pressure records from BP compilation between 9-10-2004 and 1-5-2006.csv and then earth tide records from ET WIPP Model Domain 09-01-04 to 1-5-06.csv. The utility uses a simple search algorithm to find the closest barometric and earthtide observation to the pressure head measurement time. Its output is a *.csv file with six columns, pressure head observation time, pressure head, barometric observation time, barometric pressure, earth tide observation time, and earth tide acceleration. The file of matched pressure head, barometric observations, and earth tide observations was saved as WLBPET WQSP-3(C).csv.
7. WLBPET WQSP-3(C).csv was opened in EXCEL and saved as an excel file to WLBPET WQSP-3(C).xls.
8. WLBPET WQSP-3(C).xls was saved as WLBPET WQSP-3(C) Filtered.xls. WLBPET WQSP-3(C). Filtered.xls was filtered to remove observations that were off 1-hour intervals. These off interval observations are caused by the event driven sampling in the miniTroll memory gauges. If the delta pressure changes by 0.1psi or greater the miniTroll will record an observation regardless of the time. The default sampling interval is 1-hour. To filter the off interval data a column is added to the sheet as column G. The column is named filter. The filter column consists of the formula:

   G*=IF(MINUTE(A*)=default sampling minute,1,0)

   This places a 1 in the cell G* for on interval records, and a 0 for off interval records. All the records were sorted on the filtered column using the ascending

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method. All records with a 0 value in the filtered column were deleted. The new filtered file was saved as WLBPET WQSP-3(C) Filtered.xls.

9. WLBPET WQSP-3(C) Filtered.xls was loaded as input into BETCO 1.0. Column A was the DATETIME column, column B was the pressure head column, column C was the matched barometric pressure time, column D was the barometric pressure column, column E was the matched earth tide time, column F was the earth tide potential column. The barometric and earthtide removal was conducted using a max response time of 23 records (23 hours) and a difference interval of one record. The corrected pressure head data was saved as two additional columns in the file WLBPET WQSP-3(C) Corrected.xls. The step response for the WQSP-3 data set was almost a constant zero which indicates that the well/aquifer system has no barometric response regardless of time. As such the correction is minimal and probably unnecessary
10. The Corrected pressure head records are highlighted in yellow in WLBPET WQSP-3(C) Corrected.xls and the data were copied to worksheet WQSP-3 in WIPP-11 Compiled Response Well Data.xls.

Detrending

1. In file WLBPET WQSP-3(C) CORRECTED.xls a trend series was added for the portion of the corrected pressure ranging from decimal days 38379.65 to 38385.9 since 1/1/1900 00:00:00 in the PSI CORRECTED sheet.
2. A trendline was fit to the above series with the equation y=0.015x-483.93 with an R^2 value of 0.9771.
3. A column was added to the WLBPET WQSP-3(C) CORRECTED.xls workbook in worksheet WLBPET WQSP-3(C). The column was added at column J. Each cell in the column calculated the Elapsed Day of record since the first record by the formula: J*=H*-H2
4. Column K was added to calculate the correction variable to detrend each pressure record given the upward trend of 0.015 PSI/day. The formula used was K*=J* x 0.015
5. Column L was added to calculate the detrended pressure. The formula used was L*=I*-K*. The detrended column is highlighted in magenta.
6. The detrended pressure records were added as a series to the chart PSI Corrected.

Calculation of Freshwater Heads (for all observation wells)

The changes in meters of freshwater head for each observation well were calculated in file WIPP-11 Compiled Response Well Data.xls using the following procedure:

- Column N calculates the feet of freshwater head using the pressure data. This was done by multiplying the data that were corrected for barometric and earth tides, and detrended where applicable, by 2.31 (conversion factor used to convert pressure to feet of water) to derive the approximate feet of freshwater above the Troll. (Formula = pressure * 2.31).

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- Column O calculates the meters of freshwater head by multiplying the feet of fresh water head in Column N by .3048 (conversion factor used to convert feet to meters) (Formula = Column N * .3048)
- Column P calculates the change in freshwater head in meters by subtracting each of the values in column O from the value in column O at 02/01/05 12:48 (or the first time recorded immediately after), the start of the WIPP-11 pumping test (Formula = Column O – Column O at 02/01/05 12:48).

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Troll Processing Macro

```
Private Sub ProcessRAW_Click()

Dim FileName As String
   Dim lRealLastRow As Long
      Range("A1").Select
     On Error Resume Next
      lRealLastRow = Cells.Find("*", Range("A1"), xlFormulas, , xlByRows, _
                                xlPrevious).Row

      lRealLastRow = lRealLastRow - 1

   Sheets(1).Select
   Sheets(1).Name = "PSI"

HashRow = Cells.Find("--------", Range("A1"), xlFormulas, , xlByRows, _
                                xlPrevious).Row

'Paste for Sec to Minutes

   ActiveWindow.SmallScroll Down:=15
   Rows(HashRow & ":" & HashRow).Select
   Selection.Delete Shift:=xlUp
   Range("F" & HashRow).Select
   ActiveCell.FormulaR1C1 = "=RC[-3]/60"
   Range("F" & HashRow).Select
   Selection.Copy
   Range("F" & HashRow & ":F" & lRealLastRow).Select
   ActiveSheet.Paste

   Range("F" & HashRow).Select
   Range(Selection, Selection.End(xlDown)).Select
   Application.CutCopyMode = False
   Selection.Copy
   Selection.End(xlUp).Select
   Range("C" & HashRow).Select
   Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
      :=False, Transpose:=False


'Add Bin File name to fields

   Range("C" & HashRow - 1).Select
   Application.CutCopyMode = False
   ActiveCell.FormulaR1C1 = "  ET (days)"
```


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```
    Columns("F:F").Select
    Selection.ClearContents
    Range("F" & HashRow - 1).Select
    ActiveCell.FormulaR1C1 = "BINFILE"
    Range("B4").Select
    Selection.Copy
    Range("F" & HashRow).Select
    ActiveSheet.Paste
    Range("F" & HashRow).Select
    Selection.Copy
    Range("E" & HashRow).Select
    Selection.End(xlDown).Select
    Range("F" & lRealLastRow).Select
    Range(Selection, Selection.End(xlUp)).Select
    ActiveSheet.Paste

'Delete Temp Field

    Columns("D:D").Select
    Selection.Delete Shift:=xlToLeft

    FileName = Range("B4").Value

Range("C" & HashRow).Select
    ActiveCell.FormulaR1C1 = "=RC[-2]+RC[-1]"
    Range("C" & HashRow).Select
    Selection.AutoFill Destination:=Range("C" & HashRow & ":C" & lRealLastRow)
    Range("C" & HashRow & ":C" & lRealLastRow).Select
    Selection.NumberFormat = "0.000"
    Range("C" & HashRow - 1).Select
    ActiveCell.FormulaR1C1 = "  ET (Days)"
    Range("C" & HashRow).Select

Range("F" & HashRow - 1).Select
    ActiveCell.FormulaR1C1 = "Time Elapsed (MIN)"
    Range("F" & HashRow).Select
    ActiveCell.FormulaR1C1 = "0"
    Range("F" & HashRow + 1).Select
    ActiveCell.FormulaR1C1 = "=(RC[-3]-R41C3)*1440"
    Range("F" & HashRow + 1).Select
    Selection.AutoFill Destination:=Range("F" & (HashRow + 1) & ":F" &
lRealLastRow)

    Range("C" & (HashRow - 1) & ":D" & lRealLastRow).Select
    Selection.Copy
    Sheets.Add
```


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```
    Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
        :=False, Transpose:=False
    Sheets("Sheet1").Select
    Sheets("Sheet1").Name = "PSIOUT"
    Rows("1:1").Select
    Application.CutCopyMode = False
    Selection.Delete Shift:=xlUp


'Chart

    Range("C" & (HashRow - 1) & "39:D" & lRealLastRow).Select
    Charts.Add
    ActiveChart.ChartType = xlXYScatter
    ActiveChart.SetSourceData Source:=Sheets("PSI").Range("C" & (HashRow - 1) &
":D" & lRealLastRow), PlotBy _
        :=xlColumns
    ActiveChart.Location Where:=xlLocationAsNewSheet

    With ActiveChart
        .HasTitle = True
        .ChartTitle.Characters.Text = "PSI for " & FileName
        .Axes(xlCategory, xlPrimary).HasTitle = True
        .Axes(xlCategory, xlPrimary).AxisTitle.Characters.Text = "Time Elapsed(min)"
        .Axes(xlValue, xlPrimary).HasTitle = True
        .Axes(xlValue, xlPrimary).AxisTitle.Characters.Text = "PSI"
    End With

    Charts(1).Select
    Charts(1).Name = "PSI Chart"
End Sub
```


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Source Code for MatchRecords routine sorting algorithm…

```
//---------------------------------------------------------------------------

#include <vcl.h>
#pragma hdrstop

#include "Unit1.h"
#include <fstream.h>
#include <string.h>
#include <iostream.h>
#include <iomanip.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
//---------------------------------------------------------------------------
#pragma package(smart_init)
#pragma resource "*.dfm"
TMatchRecords *MatchRecords;
//---------------------------------------------------------------------------
__fastcall TMatchRecords::TMatchRecords(TComponent* Owner)
      : TForm(Owner)
{
}
//---------------------------------------------------------------------------
AnsiString filename;

double *dataWLTime;
double *dataWL;
double *dataBPTime;
double *dataBP;
double *dataETTime;
double *dataET;

double *matchBPTime;
double *matchBP;
double *matchETTime;
double *matchET;

int wlrecords;
int bprecords;
int etrecords;

//---------------------------------------------------------------------------
void __fastcall TMatchRecords::PheadClick(TObject *Sender)
```


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```
{

    char * str;
    filename = NULL;
    if(OpenDialog1->Execute()){        //open dialog to select raw data file CSV format
      filename = OpenDialog1->FileName;//get filename from the dialog
      str = filename.c_str ();        //converts AnsiString filename to char array

     if(filename == NULL){
      MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK, 0);
      }
      else{

//ReadIn Pressure Head Arrays from *.csv file


    ifstream file;   //instan file stream as file to read in CSV data

    file.open(str);  //opens file selected in file open dialog

    int lineCounter = 0;   //counter for lines in raw file
    char str1[300];        //char array for line counter loop
      while (!file.eof()) //loop to count records in raw data file
       {
        file.getline(str1,300);
        lineCounter++;
       }

      String t1= lineCounter-1;


      file.clear();
      file.seekg(0, ios::beg);

    char wltime[20];
    char wl[20];



    wlrecords = lineCounter-2;

     dataWLTime= new double[wlrecords]; //array to hold time values of raw file
     dataWL=   new double[wlrecords]; //array to hold Water.L values of raw file

    for(int i=0; i<wlrecords;i++)
      {
```


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```
        file.getline(wltime, 20, ','); //read thru pipe
        file.getline(wl, 20);   //read thru pipe
        dataWLTime[i]= atof(wltime);
        dataWL[i]= atof(wl);
       }



       file.clear();
       file.close();
       filename=NULL;


     }
   }
 }


//---------------------------------------------------------------------------
void __fastcall TMatchRecords::BaroClick(TObject *Sender)
{
 char * str;
    filename = NULL;
    if(OpenDialog1->Execute()){       //open dialog to select raw data file CSV format
      filename = OpenDialog1->FileName;//get filename from the dialog
      str = filename.c_str ();       //converts AnsiString filename to char array

     if(filename == NULL){
       MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK, 0);
       }
       else{
//ReadIn Baro Arrays from *.csv file

    ifstream file;   //instan file stream as file to read in CSV data

    file.open(str);  //opens file selected in file open dialog

    int lineCounter = 0;   //counter for lines in raw file
    char str1[300];       //char array for line counter loop
      while (!file.eof()) //loop to count records in raw data file
       {
        file.getline(str1,300);
        lineCounter++;
       }

       file.clear();
```


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```
      file.seekg(0, ios::beg);

    char bptime[20];
    char bp[20];

    bprecords = lineCounter-2;

     dataBPTime= new double[bprecords]; //array to hold BPtime values of raw file
     dataBP=   new double[bprecords]; //array to hold BP values of raw file

    for(int i=0; i<bprecords;i++)
      {
       file.getline(bptime, 20, ','); //read thru pipe
       file.getline(bp, 20);   //read thru pipe
       dataBPTime[i]= atof(bptime);
       dataBP[i]= atof(bp);
      }

      file.clear();
      file.close();
      filename=NULL;
     }
   }
}
//---------------------------------------------------------------------------
void __fastcall TMatchRecords::EarthTClick(TObject *Sender)
{
  char * str;
    filename = NULL;
    if(OpenDialog1->Execute()){       //open dialog to select raw data file CSV format
      filename = OpenDialog1->FileName;//get filename from the dialog
      str = filename.c_str ();       //converts AnsiString filename to char array

     if(filename == NULL){
      MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK, 0);
      }
      else{
//ReadIn Earth Tide Arrays from *.csv file

    ifstream file;  //instan file stream as file to read in CSV data

    file.open(str);  //opens file selected in file open dialog

    int lineCounter = 0;  //counter for lines in raw file
    char str1[300];       //char array for line counter loop
      while (!file.eof()) //loop to count records in raw data file
```


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```
        {
         file.getline(str1,300);
         lineCounter++;
        }

       file.clear();
       file.seekg(0, ios::beg);

    char ettime[20];
    char et[20];

    etrecords = lineCounter-2;

     dataETTime= new double[etrecords]; //array to hold ETtime values of raw file
     dataET=   new double[etrecords]; //array to hold ET values of raw file

    for(int i=0; i<etrecords;i++)
       {
        file.getline(ettime, 20, ','); //read thru pipe
        file.getline(et, 20);   //read thru pipe
        dataETTime[i]= atof(ettime);
        dataET[i]= atof(et);
       }

       file.clear();
       file.close();
       filename=NULL;
     }
   }
}
//---------------------------------------------------------------------------
void __fastcall TMatchRecords::ExecuteClick(TObject *Sender)
{

double matchCri=999990.9;
double test;

matchBPTime= new double[wlrecords];
matchBP= new double[wlrecords];
matchETTime= new double[wlrecords];
matchET= new double[wlrecords];

for(int i=0; i<wlrecords; i++){
      matchCri=999999.9;
      for(int j=0; j<bprecords; j++){
         test=fabs(dataWLTime[i]-dataBPTime[j]);
```


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```
        if(test<matchCri){
          matchBPTime[i]=dataBPTime[j];
          matchBP[i]=dataBP[j];
          matchCri=test;
            }
          }

      matchCri=999999.9;
      for(int k=0; k<bprecords; k++){
        test=fabs(dataWLTime[i]-dataETTime[k]);
        if(test<matchCri){
          matchETTime[i]=dataETTime[k];
          matchET[i]=dataET[k];
          matchCri=test;
            }
          }
    }
}
//---------------------------------------------------------------------------

void __fastcall TMatchRecords::SaveClick(TObject *Sender)
{
if(SaveDialog1->Execute(){     //open dialog to save data file CSV format
   filename = SaveDialog1->FileName; //get filename from the dialog
   char * str = filename.c_str ();//converts AnsiString filename to char array
   double temp;

  if(filename.IsEmpty()){
    MessageDlg("No file selected!!!", mtWarning, TMsgDlgButtons() << mbOK, 0);
     }
     else{

       ofstream fout(str, ios::out);
          fout << fixed;
          fout   <<   "Time,WL,MatchedBP-Time,Matched-BP,MatchET-Time,Matched-
ET" << "\n";
          for(int i=0; i<wlrecords; i++){    //write data
            fout << dataWLTime[i] << "," << dataWL[i] << "," << matchBPTime[i] <<
"," << matchBP[i] << "," << matchETTime[i] << "," << matchET[i] <<"\n";
                }
          fout.clear();
          fout.close();
       }
    }
}
//---------------------------------------------------------------------------
```


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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	Filter	BAROCorrect-Time	Corrected-Pressure	deltaT	Detrend Variable	Detrended Pressure		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	10/14/04 12:20	70.125	38274.51446	12.875	38274.51042	586.938434	1	38274.51407	70.125	0	0	70.125		161.98875	49.374171	-0.701505838
3	10/14/04 13:20	70.147	38274.55612	12.864	38274.55208	66.950089	1	38274.55574	70.125	0.04167	0.000136678	70.12486332		161.9884343	49.37407477	-0.701602071
4	10/14/04 14:20	70.175	38274.59779	12.855	38274.59375	-531.522898	1	38274.59741	70.125	0.08334	0.000273355	70.12472664		161.9881185	49.37397853	-0.701698304
5	10/14/04 15:20	70.199	38274.63946	12.848	38274.63542	-1072.45783	1	38274.63907	70.125	0.125	0.00041	70.12459		161.9878029	49.37388232	-0.701794514
6	10/14/04 16:20	70.22	38274.68112	12.839	38274.67708	-1432.215908	1	38274.68074	70.125	0.16667	0.000546678	70.12445332		161.9874872	49.37378609	-0.701890747
7	10/14/04 17:20	70.22	38274.72279	12.839	38274.71875	-1528.965926	1	38274.72241	70.125	0.20834	0.000683355	70.12431664		161.9871714	49.37368986	-0.70198698
8	10/14/04 18:20	70.22	38274.76446	12.842	38274.76042	-1341.703277	1	38274.76407	70.125	0.25	0.00082	70.12418		161.9868558	49.37359365	-0.70208319
9	10/14/04 19:20	70.206	38274.80612	12.848	38274.80208	-914.650775	1	38274.80574	70.125	0.29167	0.000956678	70.12404332		161.9865401	49.37349741	-0.702179423
10	10/14/04 20:20	70.197	38274.84779	12.855	38274.84375	-346.214499	1	38274.84741	70.125	0.33334	0.001093355	70.12390664		161.9862243	49.37340118	-0.702275656
11	10/14/04 21:20	70.177	38274.88946	12.853	38274.88542	234.845209	1	38274.88907	70.125	0.375	0.00123	70.12377		161.9859087	49.37330497	-0.702371866
12	10/14/04 22:20	70.168	38274.93112	12.849	38274.92708	700.466789	1	38274.93074	70.125	0.41667	0.001366678	70.12363332		161.985593	49.37320874	-0.702468099
13	10/14/04 23:20	70.161	38274.97279	12.84	38274.96875	954.281772	1	38274.97241	70.125	0.45834	0.001503355	70.12349664		161.9852772	49.37311251	-0.702564332
14	10/15/04 0:20	70.161	38275.01446	12.84	38275.01042	955.016707	1	38275.01407	70.125	0.5	0.00164	70.12336		161.9849616	49.3730163	-0.702660542
15	10/15/04 1:20	70.175	38275.05612	12.839	38275.05208	726.375591	1	38275.05574	70.125	0.54167	0.001776678	70.12322332		161.9846459	49.37292006	-0.702756775
16	10/15/04 2:20	70.19	38275.09779	12.833	38275.09375	350.377209	1	38275.09741	70.125	0.58334	0.001913355	70.12308664		161.9843301	49.37282383	-0.702853008
17	10/15/04 3:20	70.205	38275.13946	12.833	38275.13542	-54.686748	1	38275.13907	70.125	0.625	0.00205	70.12295		161.9840145	49.37272762	-0.702949218
18	10/15/04 4:20	70.227	38275.18112	12.832	38275.17708	-366.358982	1	38275.18074	70.125	0.66667	0.002186678	70.12281332		161.9836988	49.37263139	-0.703045451
19	10/15/04 5:20	70.234	38275.22279	12.836	38275.21875	-491.729788	1	38275.22241	70.125	0.70834	0.002323355	70.12267664		161.983383	49.37253515	-0.703141684
20	10/15/04 6:20	70.249	38275.26446	12.838	38275.26042	-393.376883	1	38275.26407	70.125	0.75	0.00246	70.12254		161.9830674	49.37243894	-0.703237894
21	10/15/04 7:20	70.249	38275.30612	12.846	38275.30208	-100.01769	1	38275.30574	70.25261851	0.79167	0.002596678	70.25002183		162.2775504	49.46219737	-0.613479468
22	10/15/04 8:20	70.242	38275.34779	12.844	38275.34375	301.344813	1	38275.34741	70.25152199	0.83334	0.002733355	70.24878863		162.2747017	49.46132909	-0.614347747
23	10/15/04 9:20	70.242	38275.38946	12.835	38275.38542	689.575445	1	38275.38907	70.25662343	0.875	0.00287	70.25375343		162.2861704	49.46482474	-0.610852095
24	10/15/04 10:20	70.234	38275.43112	12.825	38275.42708	942.887303	1	38275.43074	70.25342946	0.91667	0.003006678	70.25042278		162.2784766	49.46247968	-0.613197162
25	10/15/04 11:20	70.242	38275.47279	12.811	38275.46875	972.141126	1	38275.47241	70.26162768	0.95834	0.003143355	70.25848433		162.2970988	49.46815571	-0.607521125
26	10/15/04 12:20	70.249	38275.51446	12.789	38275.51042	744.867341	1	38275.51407	70.25965102	1	0.00328	70.25637102		162.2922171	49.46666776	-0.609009078
27	10/15/04 13:20	70.264	38275.55612	12.771	38275.55208	293.929633	1	38275.55574	70.26153627	1.04167	0.003416678	70.2581196		162.2962563	49.46789891	-0.607777928
28	10/15/04 14:20	70.286	38275.59779	12.765	38275.59375	-290.787864	1	38275.59741	70.27162024	1.08334	0.003553355	70.26606689		162.3192345	49.47490268	-0.600774158
29	10/15/04 15:20	70.293	38275.63946	12.756	38275.63542	-884.804078	1	38275.63907	70.26310748	1.125	0.00369	70.25941748		162.2992544	49.46881273	-0.606864105
30	10/15/04 16:20	70.308	38275.68112	12.751	38275.67708	-1359.389786	1	38275.68074	70.26445111	1.16667	0.003826678	70.26062443		162.3020424	49.46966253	-0.606014303
31	10/15/04 17:20	70.323	38275.72279	12.752	38275.71875	-1612.15552	1	38275.72241	70.27246423	1.20834	0.003963355	70.26850087		162.320237	49.47520824	-0.600468594
32	10/15/04 18:20	70.315	38275.76446	12.759	38275.76042	-1590.61189	1	38275.76407	70.2674537	1.25	0.0041	70.2633537		162.3083471	49.47158418	-0.604092657
33	10/15/04 19:20	70.301	38275.80612	12.766	38275.80208	-1303.45103	1	38275.80574	70.26408324	1.29167	0.004236678	70.25984656		162.3002456	49.46911485	-0.606561991
34	10/15/04 20:20	70.286	38275.84779	12.775	38275.84375	-817.324725	1	38275.84741	70.26658646	1.33334	0.004373355	70.26221311		162.3057123	49.4707811	-0.604895734
35	10/15/04 21:20	70.264	38275.88946	12.782	38275.88542	-240.231985	1	38275.88907	70.26512691	1.375	0.00451	70.26061691		162.3020251	49.46965724	-0.606019597
36	10/15/04 22:20	70.256	38275.93112	12.782	38275.92708	304.412273	1	38275.93074	70.27454842	1.41667	0.004646678	70.26990174		162.323473	49.47619458	-0.599482258
37	10/15/04 23:20	70.242	38275.97279	12.781	38275.96875	706.938797	1	38275.97241	70.27359535	1.45834	0.004783355	70.26881189		162.3209557	49.4754273	-0.600249539
38	10/16/04 0:20	70.234	38276.01446	12.784	38276.01042	897.011758	1	38276.01407	70.27449429	1.5	0.00492	70.26957429		162.3227166	49.47596402	-0.599712814
39	10/16/04 1:20	70.227	38276.05612	12.792	38276.05208	859.558468	1	38276.05574	70.27220456	1.54167	0.005056678	70.26714788		162.3171116	49.47425562	-0.601421218
40	10/16/04 2:20	70.227	38276.09779	12.795	38276.09375	637.03037	1	38276.09741	70.26730641	1.58334	0.005193355	70.26211306		162.3054812	49.47071066	-0.604966179
41	10/16/04 3:20	70.234	38276.13946	12.807	38276.13542	317.109934	1	38276.13907	70.26772323	1.625	0.00533	70.26239323		162.3061284	49.47090793	-0.604768911
42	10/16/04 4:20	70.242	38276.18112	12.835	38276.17708	8.593152	1	38276.18074	70.27561423	1.66667	0.005466678	70.27014755		162.3240408	49.47636765	-0.599309188
43	10/16/04 5:20	70.234	38276.22279	12.858	38276.21875	-188.550235	1	38276.22241	70.26661856	1.70834	0.005603355	70.26101521		162.3029451	49.46993768	-0.605739161
44	10/16/04 6:20	70.242	38276.26446	12.875	38276.26042	-210.982589	1	38276.26407	70.27368521	1.75	0.00574	70.26794521		162.3189534	49.47481701	-0.60085983
45	10/16/04 7:20	70.249	38276.30612	12.88	38276.30208	-49.883244	1	38276.30574	70.27880096	1.79167	0.005876678	70.27292428		162.3304551	49.47832271	-0.597354125
46	10/16/04 8:20	70.242	38276.34779	12.883	38276.34375	246.346914	1	38276.34741	70.27426747	1.83334	0.006013355	70.26825412		162.319667	49.4750345	-0.600642333
47	10/16/04 9:20	70.242	38276.38946	12.885	38276.38542	585.524036	1	38276.38907	70.28091577	1.875	0.00615	70.27476577		162.3347089	49.47961928	-0.596057555
48	10/16/04 10:20	70.242	38276.43112	12.874	38276.42708	857.48031	1	38276.43074	70.28231543	1.91667	0.006286678	70.27602875		162.3376264	49.48050853	-0.595168305
49	10/16/04 11:20	70.242	38276.47279	12.858	38276.46875	964.822965	1	38276.47241	70.28023083	1.95834	0.006423355	70.27380748		162.3324953	49.47894456	-0.596732279
50	10/16/04 12:20	70.249	38276.51446	12.841	38276.51042	849.959788	1	38276.51407	70.28201241	2	0.00656	70.27545241		162.3362951	49.48010273	-0.595574104
51	10/16/04 13:20	70.256	38276.55612	12.828	38276.55208	511.066105	1	38276.55574	70.28135293	2.04167	0.006696678	70.27466625		162.3344559	49.47954217	-0.596134665
52	10/16/04 14:20	70.278	38276.59779	12.811	38276.59375	3.094484	1	38276.59741	70.28940437	2.08334	0.006833355	70.28257103		162.3527391	49.48511486	-0.590561974
53	10/16/04 15:20	70.293	38276.63946	12.803	38276.63542	-575.808117	1	38276.63907	70.29114098	2.125	0.00697	70.28417098		162.356435	49.48624138	-0.589435457
54	10/16/04 16:20	70.301	38276.68112	12.799	38276.67708	-1108.327704	1	38276.68074	70.28754266	2.16667	0.007106678	70.28043588		162.3478071	49.48361161	-0.59206523
55	10/16/04 17:20	70.315	38276.72279	12.801	38276.71875	-1485.967966	1	38276.72241	70.29442765	2.20834	0.007243355	70.28718429		162.3633957	49.48836301	-0.587313823
56	10/16/04 18:20	70.315	38276.76446	12.799	38276.76042	-1634.011679	1	38276.76407	70.2897343	2.25	0.00738	70.2823543		162.3522384	49.48496227	-0.590714566
57	10/16/04 19:20	70.308	38276.80612	12.801	38276.80208	-1527.696977	1	38276.80574	70.28567977	2.29167	0.007516678	70.27816309		162.3425567	49.48201129	-0.593665543
58	10/16/04 20:20	70.308	38276.84779	12.807	38276.84375	-1196.276499	1	38276.84741	70.29726263	2.33334	0.007653355	70.28060927		162.3689974	49.49007041	-0.585606425
59	10/16/04 21:20	70.286	38276.88946	12.804	38276.88542	-714.590264	1	38276.88907	70.2873439	2.375	0.00779	70.27955539		162.3457695	49.48299055	-0.592686291
60	10/16/04 22:20	70.271	38276.93112	12.804	38276.92708	-184.593028	1	38276.93074	70.28770118	2.41667	0.007926678	70.27977451		162.3462791	49.48314587	-0.592530965

Information Only

H-6b Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	Filter	BAROCorrect-Time	Corrected-Pressure	deltaT	Detrend Variable	Detrended Pressure		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38274.51407	70.125	38274.51446	12.875	38274.51042	586.938434	=IF(MINUTE(A2)=20,1,0)	38274.51407	70.125	=H2-H2	=J2* 0.00328	=G2-K2		=L2*2.31	=N2*0.3048	=O2-O2642
3	38274.55574	70.147	38274.55612	12.864	38274.55208	66.950089	=IF(MINUTE(A3)=20,1,0)	38274.55574	70.125	=H3-H2	=J3* 0.00328	=G3-K3		=L3*2.31	=N3*0.3048	=O3-O2642
4	38274.59741	70.175	38274.59779	12.855	38274.59375	-531.522898	=IF(MINUTE(A4)=20,1,0)	38274.59741	70.125	=H4-H2	=J4* 0.00328	=G4-K4		=L4*2.31	=N4*0.3048	=O4-O2642
5	38274.63907	70.199	38274.63946	12.848	38274.63542	-1072.45783	=IF(MINUTE(A5)=20,1,0)	38274.63907	70.125	=H5-H2	=J5* 0.00328	=G5-K5		=L5*2.31	=N5*0.3048	=O5-O2642
6	38274.68074	70.22	38274.68112	12.839	38274.67708	-1432.215908	=IF(MINUTE(A6)=20,1,0)	38274.68074	70.125	=H6-H2	=J6* 0.00328	=G6-K6		=L6*2.31	=N6*0.3048	=O6-O2642
7	38274.72241	70.22	38274.72279	12.839	38274.71875	-1528.965926	=IF(MINUTE(A7)=20,1,0)	38274.72241	70.125	=H7-H2	=J7* 0.00328	=G7-K7		=L7*2.31	=N7*0.3048	=O7-O2642
8	38274.76407	70.22	38274.76446	12.842	38274.76042	-1341.703277	=IF(MINUTE(A8)=20,1,0)	38274.76407	70.125	=H8-H2	=J8* 0.00328	=G8-K8		=L8*2.31	=N8*0.3048	=O8-O2642
9	38274.80574	70.206	38274.80612	12.848	38274.80208	-914.650775	=IF(MINUTE(A9)=20,1,0)	38274.80574	70.125	=H9-H2	=J9* 0.00328	=G9-K9		=L9*2.31	=N9*0.3048	=O9-O2642
10	38274.84741	70.197	38274.84779	12.855	38274.84375	-346.214499	=IF(MINUTE(A10)=20,1,0)	38274.84741	70.125	=H10-H2	=J10* 0.00328	=G10-K10		=L10*2.31	=N10*0.3048	=O10-O2642
11	38274.88907	70.177	38274.88946	12.853	38274.88542	234.845209	=IF(MINUTE(A11)=20,1,0)	38274.88907	70.125	=H11-H2	=J11* 0.00328	=G11-K11		=L11*2.31	=N11*0.3048	=O11-O2642
12	38274.93074	70.168	38274.93112	12.849	38274.92708	700.468789	=IF(MINUTE(A12)=20,1,0)	38274.93074	70.125	=H12-H2	=J12* 0.00328	=G12-K12		=L12*2.31	=N12*0.3048	=O12-O2642
13	38274.97241	70.161	38274.97279	12.84	38274.96875	954.281772	=IF(MINUTE(A13)=20,1,0)	38274.97241	70.125	=H13-H2	=J13* 0.00328	=G13-K13		=L13*2.31	=N13*0.3048	=O13-O2642
14	38275.01407	70.161	38275.01446	12.84	38275.01042	955.016707	=IF(MINUTE(A14)=20,1,0)	38275.01407	70.125	=H14-H2	=J14* 0.00328	=G14-K14		=L14*2.31	=N14*0.3048	=O14-O2642
15	38275.05574	70.175	38275.05612	12.839	38275.05208	726.375591	=IF(MINUTE(A15)=20,1,0)	38275.05574	70.125	=H15-H2	=J15* 0.00328	=G15-K15		=L15*2.31	=N15*0.3048	=O15-O2642
16	38275.09741	70.19	38275.09779	12.833	38275.09375	350.377209	=IF(MINUTE(A16)=20,1,0)	38275.09741	70.125	=H16-H2	=J16* 0.00328	=G16-K16		=L16*2.31	=N16*0.3048	=O16-O2642
17	38275.13907	70.205	38275.13946	12.833	38275.13542	-54.686748	=IF(MINUTE(A17)=20,1,0)	38275.13907	70.125	=H17-H2	=J17* 0.00328	=G17-K17		=L17*2.31	=N17*0.3048	=O17-O2642
18	38275.18074	70.227	38275.18112	12.832	38275.17708	-366.358982	=IF(MINUTE(A18)=20,1,0)	38275.18074	70.125	=H18-H2	=J18* 0.00328	=G18-K18		=L18*2.31	=N18*0.3048	=O18-O2642
19	38275.22241	70.234	38275.22279	12.836	38275.21875	-491.729788	=IF(MINUTE(A19)=20,1,0)	38275.22241	70.125	=H19-H2	=J19* 0.00328	=G19-K19		=L19*2.31	=N19*0.3048	=O19-O2642
20	38275.26407	70.249	38275.26446	12.838	38275.26042	-393.376883	=IF(MINUTE(A20)=20,1,0)	38275.26407	70.125	=H20-H2	=J20* 0.00328	=G20-K20		=L20*2.31	=N20*0.3048	=O20-O2642
21	38275.30574	70.249	38275.30612	12.846	38275.30208	-100.01769	=IF(MINUTE(A21)=20,1,0)	38275.30574	70.2526185063328	=H21-H2	=J21* 0.00328	=G21-K21		=L21*2.31	=N21*0.3048	=O21-O2642
22	38275.34741	70.242	38275.34779	12.844	38275.34375	301.344813	=IF(MINUTE(A22)=20,1,0)	38275.34741	70.2515219880447	=H22-H2	=J22* 0.00328	=G22-K22		=L22*2.31	=N22*0.3048	=O22-O2642
23	38275.38907	70.242	38275.38946	12.835	38275.38542	689.575445	=IF(MINUTE(A23)=20,1,0)	38275.38907	70.2566234263915	=H23-H2	=J23* 0.00328	=G23-K23		=L23*2.31	=N23*0.3048	=O23-O2642
24	38275.43074	70.234	38275.43112	12.825	38275.42708	942.887303	=IF(MINUTE(A24)=20,1,0)	38275.43074	70.2534294599498	=H24-H2	=J24* 0.00328	=G24-K24		=L24*2.31	=N24*0.3048	=O24-O2642
25	38275.47241	70.242	38275.47279	12.811	38275.46875	972.141126	=IF(MINUTE(A25)=20,1,0)	38275.47241	70.2616276823706	=H25-H2	=J25* 0.00328	=G25-K25		=L25*2.31	=N25*0.3048	=O25-O2642
26	38275.51407	70.249	38275.51446	12.789	38275.51042	744.867341	=IF(MINUTE(A26)=20,1,0)	38275.51407	70.2596510212473	=H26-H2	=J26* 0.00328	=G26-K26		=L26*2.31	=N26*0.3048	=O26-O2642
27	38275.55574	70.264	38275.55612	12.771	38275.55208	293.929633	=IF(MINUTE(A27)=20,1,0)	38275.55574	70.2615362728091	=H27-H2	=J27* 0.00328	=G27-K27		=L27*2.31	=N27*0.3048	=O27-O2642
28	38275.59741	70.286	38275.59779	12.765	38275.59375	-290.787864	=IF(MINUTE(A28)=20,1,0)	38275.59741	70.2716202443095	=H28-H2	=J28* 0.00328	=G28-K28		=L28*2.31	=N28*0.3048	=O28-O2642
29	38275.63907	70.293	38275.63946	12.756	38275.63542	-884.804078	=IF(MINUTE(A29)=20,1,0)	38275.63907	70.2631074776521	=H29-H2	=J29* 0.00328	=G29-K29		=L29*2.31	=N29*0.3048	=O29-O2642
30	38275.68074	70.308	38275.68112	12.751	38275.67708	-1359.389786	=IF(MINUTE(A30)=20,1,0)	38275.68074	70.2644511082924	=H30-H2	=J30* 0.00328	=G30-K30		=L30*2.31	=N30*0.3048	=O30-O2642
31	38275.72241	70.323	38275.72279	12.752	38275.71875	-1612.15552	=IF(MINUTE(A31)=20,1,0)	38275.72241	70.2724642295344	=H31-H2	=J31* 0.00328	=G31-K31		=L31*2.31	=N31*0.3048	=O31-O2642
32	38275.76407	70.315	38275.76446	12.759	38275.76042	-1590.61189	=IF(MINUTE(A32)=20,1,0)	38275.76407	70.2674537014847	=H32-H2	=J32* 0.00328	=G32-K32		=L32*2.31	=N32*0.3048	=O32-O2642
33	38275.80574	70.301	38275.80612	12.766	38275.80208	-1303.45103	=IF(MINUTE(A33)=20,1,0)	38275.80574	70.2640832405598	=H33-H2	=J33* 0.00328	=G33-K33		=L33*2.31	=N33*0.3048	=O33-O2642
34	38275.84741	70.286	38275.84779	12.775	38275.84375	-817.324725	=IF(MINUTE(A34)=20,1,0)	38275.84741	70.2665864638748	=H34-H2	=J34* 0.00328	=G34-K34		=L34*2.31	=N34*0.3048	=O34-O2642
35	38275.88907	70.264	38275.88946	12.782	38275.88542	-240.231985	=IF(MINUTE(A35)=20,1,0)	38275.88907	70.2651269127138	=H35-H2	=J35* 0.00328	=G35-K35		=L35*2.31	=N35*0.3048	=O35-O2642
36	38275.93074	70.256	38275.93112	12.782	38275.92708	304.412273	=IF(MINUTE(A36)=20,1,0)	38275.93074	70.2745484215835	=H36-H2	=J36* 0.00328	=G36-K36		=L36*2.31	=N36*0.3048	=O36-O2642
37	38275.97241	70.242	38275.97279	12.781	38275.96875	706.938797	=IF(MINUTE(A37)=20,1,0)	38275.97241	70.2735953486967	=H37-H2	=J37* 0.00328	=G37-K37		=L37*2.31	=N37*0.3048	=O37-O2642
38	38276.01407	70.234	38276.01446	12.784	38276.01042	897.011758	=IF(MINUTE(A38)=20,1,0)	38276.01407	70.2744942912788	=H38-H2	=J38* 0.00328	=G38-K38		=L38*2.31	=N38*0.3048	=O38-O2642
39	38276.05574	70.227	38276.05612	12.792	38276.05208	859.558468	=IF(MINUTE(A39)=20,1,0)	38276.05574	70.2722045622874	=H39-H2	=J39* 0.00328	=G39-K39		=L39*2.31	=N39*0.3048	=O39-O2642
40	38276.09741	70.227	38276.09779	12.795	38276.09375	637.03037	=IF(MINUTE(A40)=20,1,0)	38276.09741	70.2673064133239	=H40-H2	=J40* 0.00328	=G40-K40		=L40*2.31	=N40*0.3048	=O40-O2642
41	38276.13907	70.234	38276.13946	12.807	38276.13542	317.109934	=IF(MINUTE(A41)=20,1,0)	38276.13907	70.267723232964	=H41-H2	=J41* 0.00328	=G41-K41		=L41*2.31	=N41*0.3048	=O41-O2642
42	38276.18074	70.242	38276.18112	12.835	38276.17708	8.593152	=IF(MINUTE(A42)=20,1,0)	38276.18074	70.275614228905	=H42-H2	=J42* 0.00328	=G42-K42		=L42*2.31	=N42*0.3048	=O42-O2642
43	38276.22241	70.234	38276.22279	12.858	38276.21875	-188.550235	=IF(MINUTE(A43)=20,1,0)	38276.22241	70.266618564012	=H43-H2	=J43* 0.00328	=G43-K43		=L43*2.31	=N43*0.3048	=O43-O2642
44	38276.26407	70.242	38276.26446	12.875	38276.26042	-210.982589	=IF(MINUTE(A44)=20,1,0)	38276.26407	70.2736852113709	=H44-H2	=J44* 0.00328	=G44-K44		=L44*2.31	=N44*0.3048	=O44-O2642
45	38276.30574	70.249	38276.30612	12.88	38276.30208	-49.883244	=IF(MINUTE(A45)=20,1,0)	38276.30574	70.278800981172	=H45-H2	=J45* 0.00328	=G45-K45		=L45*2.31	=N45*0.3048	=O45-O2642
46	38276.34741	70.242	38276.34779	12.883	38276.34375	246.346914	=IF(MINUTE(A46)=20,1,0)	38276.34741	70.2742674720072	=H46-H2	=J46* 0.00328	=G46-K46		=L46*2.31	=N46*0.3048	=O46-O2642
47	38276.38907	70.242	38276.38946	12.885	38276.38542	585.524036	=IF(MINUTE(A47)=20,1,0)	38276.38907	70.2809157715196	=H47-H2	=J47* 0.00328	=G47-K47		=L47*2.31	=N47*0.3048	=O47-O2642
48	38276.43074	70.242	38276.43112	12.874	38276.42708	857.48031	=IF(MINUTE(A48)=20,1,0)	38276.43074	70.2823154310478	=H48-H2	=J48* 0.00328	=G48-K48		=L48*2.31	=N48*0.3048	=O48-O2642
49	38276.47241	70.242	38276.47279	12.858	38276.46875	964.822965	=IF(MINUTE(A49)=20,1,0)	38276.47241	70.2802308316488	=H49-H2	=J49* 0.00328	=G49-K49		=L49*2.31	=N49*0.3048	=O49-O2642
50	38276.51407	70.249	38276.51446	12.841	38276.51042	849.959788	=IF(MINUTE(A50)=20,1,0)	38276.51407	70.2820124061275	=H50-H2	=J50* 0.00328	=G50-K50		=L50*2.31	=N50*0.3048	=O50-O2642
51	38276.55574	70.256	38276.55612	12.828	38276.55208	511.066105	=IF(MINUTE(A51)=20,1,0)	38276.55574	70.2813529318837	=H51-H2	=J51* 0.00328	=G51-K51		=L51*2.31	=N51*0.3048	=O51-O2642
52	38276.59741	70.278	38276.59779	12.811	38276.59375	3.094484	=IF(MINUTE(A52)=20,1,0)	38276.59741	70.2894043738829	=H52-H2	=J52* 0.00328	=G52-K52		=L52*2.31	=N52*0.3048	=O52-O2642
53	38276.63907	70.293	38276.63946	12.803	38276.63542	-575.808117	=IF(MINUTE(A53)=20,1,0)	38276.63907	70.2911409844463	=H53-H2	=J53* 0.00328	=G53-K53		=L53*2.31	=N53*0.3048	=O53-O2642
54	38276.68074	70.301	38276.68112	12.799	38276.67708	-1108.327704	=IF(MINUTE(A54)=20,1,0)	38276.68074	70.287542657015	=H54-H2	=J54* 0.00328	=G54-K54		=L54*2.31	=N54*0.3048	=O54-O2642
55	38276.72241	70.315	38276.72279	12.801	38276.71875	-1485.967966	=IF(MINUTE(A55)=20,1,0)	38276.72241	70.2944276482648	=H55-H2	=J55* 0.00328	=G55-K55		=L55*2.31	=N55*0.3048	=O55-O2642
56	38276.76407	70.315	38276.76446	12.799	38276.76042	-1634.011679	=IF(MINUTE(A56)=20,1,0)	38276.76407	70.2897342960945	=H56-H2	=J56* 0.00328	=G56-K56		=L56*2.31	=N56*0.3048	=O56-O2642
57	38276.80574	70.308	38276.80612	12.801	38276.80208	-1527.696977	=IF(MINUTE(A57)=20,1,0)	38276.80574	70.2856797693409	=H57-H2	=J57* 0.00328	=G57-K57		=L57*2.31	=N57*0.3048	=O57-O2642
58	38276.84741	70.308	38276.84779	12.807	38276.84375	-1196.276499	=IF(MINUTE(A58)=20,1,0)	38276.84741	70.2972626257477	=H58-H2	=J58* 0.00328	=G58-K58		=L58*2.31	=N58*0.3048	=O58-O2642
59	38276.88907	70.286	38276.88946	12.804	38276.88542	-714.590264	=IF(MINUTE(A59)=20,1,0)	38276.88907	70.2873439004685	=H59-H2	=J59* 0.00328	=G59-K59		=L59*2.31	=N59*0.3048	=O59-O2642
60	38276.93074	70.271	38276.93112	12.804	38276.92708	-184.593028	=IF(MINUTE(A60)=20,1,0)	38276.93074	70.2877011833278	=H60-H2	=J60* 0.00328	=G60-K60		=L60*2.31	=N60*0.3048	=O60-O2642

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	ElapsedDays	DetrendCorrection	[illegible]		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/18/05 16:25	28.815	38370.68	13.137	38370.6875	201.383781		38370.68457	28.815	0	0	[illegible]		66.56265	20.28829572	-0.008252702
3	1/18/05 17:25	28.806	38370.73	13.143	38370.72917	230.023771		38370.72624	28.815	0.04167	0.000379197	[illegible]		66.56177405	20.28802873	-0.00851969
4	1/18/05 18:25	28.797	38370.77	13.143	38370.77083	298.704368		38370.76791	28.815	0.08334	0.000758394	[illegible]		66.56089811	20.28776174	-0.008786678
5	1/18/05 19:25	28.787	38370.81	13.143	38370.8125	393.450486		38370.80957	28.815	0.125	0.0011375	[illegible]		66.56002238	20.28749482	-0.009053602
6	1/18/05 20:25	28.797	38370.85	13.149	38370.85417	486.329518		38370.85124	28.815	0.16667	0.001516697	[illegible]		66.55914643	20.28722783	-0.00932059
7	1/18/05 21:25	28.797	38370.89	13.151	38370.89583	541.48969		38370.89291	28.815	0.20834	0.001895894	[illegible]		66.55827048	20.28696084	-0.009587578
8	1/18/05 22:25	28.796	38370.93	13.152	38370.9375	524.302177		38370.93457	28.815	0.25	0.002275	[illegible]		66.55739475	20.28669392	-0.009854502
9	1/18/05 23:25	28.806	38370.98	13.146	38370.97917	411.560009		38370.97624	28.815	0.29167	0.002654197	[illegible]		66.5565188	20.28642693	-0.01012149
10	1/19/05 0:25	28.815	38371.02	13.144	38371.02083	199.938038		38371.01791	28.815	0.33334	0.003033394	[illegible]		66.55564286	20.28615994	-0.010388478
11	1/19/05 1:25	28.824	38371.06	13.139	38371.0625	-90.04429		38371.05957	28.815	0.375	0.0034125	[illegible]		66.55476713	20.28589302	-0.010655402
12	1/19/05 2:25	28.834	38371.1	13.141	38371.10417	-416.295534		38371.10124	28.815	0.41667	0.003791697	[illegible]		66.55389118	20.28562603	-0.01092239
13	1/19/05 3:25	28.834	38371.14	13.138	38371.14583	-723.596692		38371.14291	28.815	0.45834	0.004170894	[illegible]		66.55301523	20.28535904	-0.011189378
14	1/19/05 4:25	28.825	38371.18	13.143	38371.1875	-956.166151		38371.18457	28.815	0.5	0.00455	[illegible]		66.5521395	20.28509212	-0.011456302
15	1/19/05 5:25	28.834	38371.23	13.145	38371.22917	-1070.882732		38371.22624	28.83743576	0.54167	0.004929197	[illegible]		66.60309016	20.30062188	0.00407346
16	1/19/05 6:25	28.825	38371.27	13.157	38371.27083	-1047.44449		38371.26791	28.83730863	0.58334	0.005308394	[illegible]		66.60192055	20.30026538	0.003716963
17	1/19/05 7:25	28.815	38371.31	13.169	38371.3125	-892.731254		38371.30957	28.83699514	0.625	0.0056875	[illegible]		66.60032064	20.29977773	0.00322931
18	1/19/05 8:25	28.805	38371.35	13.176	38371.35417	-638.458158		38371.35124	28.83379976	0.66667	0.006066697	[illegible]		66.59206338	20.29726092	0.000712495
19	1/19/05 9:25	28.796	38371.39	13.181	38371.39583	-333.137842		38371.39291	28.82761941	0.70834	0.006445894	[illegible]		66.57691083	20.29264242	-0.003906
20	1/19/05 10:25	28.806	38371.43	13.18	38371.4375	-30.751296		38371.43457	28.83697757	0.75	0.006825	[illegible]		66.59765243	20.29896446	0.002416039
21	1/19/05 11:25	28.806	38371.48	13.173	38371.47917	220.964145		38371.47624	28.83071277	0.79167	0.007204197	[illegible]		66.58230481	20.2942865	-0.002261917
22	1/19/05 12:25	28.824	38371.52	13.154	38371.52083	390.001064		38371.51791	28.83616335	0.83334	0.007583394	[illegible]		66.5940197	20.2978572	0.001308782
23	1/19/05 13:25	28.833	38371.56	13.141	38371.5625	465.534859		38371.55957	28.83426111	0.875	0.0079625	[illegible]		66.58874978	20.29625093	-0.000297489
24	1/19/05 14:25	28.834	38371.6	13.139	38371.60417	458.508125		38371.60124	28.83438315	0.91667	0.008341697	[illegible]		66.58815575	20.29606987	-0.000478551
25	1/19/05 15:25	28.834	38371.64	13.138	38371.64583	397.449784		38371.64291	28.83709631	0.95834	0.008720894	[illegible]		66.59354722	20.29771319	0.00116477
26	1/19/05 16:25	28.834	38371.68	13.13	38371.6875	320.465327		38371.68457	28.83842308	1	0.0091	[illegible]		66.59573631	20.29838043	0.001832007
27	1/19/05 17:25	28.834	38371.73	13.129	38371.72917	265.041864		38371.72624	28.8428535	1.04167	0.009479197	[illegible]		66.60509463	20.30123284	0.004684421
28	1/19/05 18:25	28.815	38371.77	13.133	38371.77083	257.834378		38371.76791	28.83206748	1.08334	0.009858394	[illegible]		66.57930299	20.29337155	-0.00317687
29	1/19/05 19:25	28.815	38371.81	13.138	38371.8125	306.811001		38371.80957	28.83979684	1.125	0.0102375	[illegible]		66.59628162	20.29854664	0.001998215
30	1/19/05 20:25	28.815	38371.85	13.14	38371.85417	397.881941		38371.85124	28.84313771	1.16667	0.010616697	[illegible]		66.60312353	20.30063205	0.00408363
31	1/19/05 21:25	28.815	38371.89	13.143	38371.89583	497.321561		38371.89291	28.84447575	1.20834	0.010995894	[illegible]		66.60533848	20.30130717	0.004758746
32	1/19/05 22:25	28.815	38371.93	13.145	38371.9375	559.963028		38371.93457	28.84228528	1.25	0.011375	[illegible]		66.59940275	20.29949796	0.002949536
33	1/19/05 23:25	28.825	38371.98	13.138	38371.97917	541.547436		38371.97624	28.84336588	1.29167	0.011754197	[illegible]		66.60102299	20.29999181	0.003443384
34	1/20/05 0:25	28.833	38372.02	13.123	38372.02083	412.182156		38372.01791	28.83529012	1.33334	0.012133394	[illegible]		66.58149204	20.29403877	-0.002509649
35	1/20/05 1:25	28.853	38372.06	13.115	38372.0625	167.126304		38372.05957	28.84166046	1.375	0.0125125	[illegible]		66.59533178	20.29825713	0.001708705
36	1/20/05 2:25	28.872	38372.1	13.102	38372.10417	-168.521241		38372.10124	28.84665962	1.41667	0.012891697	[illegible]		66.60600389	20.30150999	0.004961565
37	1/20/05 3:25	28.881	38372.14	13.095	38372.14583	-543.133239		38372.14291	28.84598438	1.45834	0.013270894	[illegible]		66.60356816	20.30076758	0.004219154
38	1/20/05 4:25	28.89	38372.18	13.088	38372.1875	-889.45939		38372.18457	28.84862168	1.5	0.01365	[illegible]		66.60878457	20.30235754	0.005809116
39	1/20/05 5:25	28.89	38372.23	13.091	38372.22917	-1140.37604		38372.22624	28.85016998	1.54167	0.014029197	[illegible]		66.6114852	20.30318069	0.006632268
40	1/20/05 6:25	28.881	38372.27	13.096	38372.27083	-1245.184091		38372.26791	28.84662339	1.58334	0.014408394	[illegible]		66.60241664	20.30041659	0.003868169
41	1/20/05 7:25	28.88	38372.31	13.103	38372.3125	-1181.970329		38372.30957	28.85325348	1.625	0.0147875	[illegible]		66.61685642	20.30481784	0.008269415
42	1/20/05 8:25	28.872	38372.35	13.106	38372.35417	-962.758472		38372.35124	28.85046188	1.66667	0.015166697	[illegible]		66.60953187	20.30258531	0.006036891
43	1/20/05 9:25	28.872	38372.39	13.115	38372.39583	-630.308613		38372.39291	28.85673354	1.70834	0.015545894	[illegible]		66.62314347	20.30673413	0.010185708
44	1/20/05 10:25	28.862	38372.43	13.113	38372.4375	-247.717519		38372.43457	28.84631738	1.75	0.015925	[illegible]		66.59820639	20.29913331	0.002584886
45	1/20/05 11:25	28.872	38372.48	13.102	38372.47917	116.278299		38372.47624	28.84816291	1.79167	0.016304197	[illegible]		66.60159363	20.30016574	0.003617315
46	1/20/05 12:25	28.89	38372.52	13.082	38372.52083	402.589538		38372.51791	28.85011431	1.83334	0.016683394	[illegible]		66.60522541	20.30127271	0.004724283
47	1/20/05 13:25	28.9	38372.56	13.065	38372.5625	574.113953		38372.55957	28.84579086	1.875	0.0170625	[illegible]		66.5943625	20.29796169	0.001413269
48	1/20/05 14:25	28.908	38372.6	13.057	38372.60417	622.508502		38372.60124	28.84542751	1.91667	0.017441697	[illegible]		66.59264722	20.29743887	0.00089045
49	1/20/05 15:25	28.9	38372.64	13.055	38372.64583	568.115276		38372.64291	28.83695362	1.95834	0.017820894	[illegible]		66.57219661	20.29120553	-0.005342896
50	1/20/05 16:25	28.909	38372.68	13.054	38372.6875	453.239863		38372.68457	28.84915748	2	0.0182	[illegible]		66.59951179	20.29953119	0.002982771
51	1/20/05 17:25	28.9	38372.73	13.053	38372.72917	330.364153		38372.72624	28.84609426	2.04167	0.018579197	[illegible]		66.59155979	20.29710742	0.000559001
52	1/20/05 18:25	28.889	38372.77	13.054	38372.77083	247.971271		38372.76791	28.8424954	2.08334	0.018958394	[illegible]		66.5823705	20.29430653	-0.002241895
53	1/20/05 19:25	28.89	38372.81	13.057	38372.8125	237.28168		38372.80957	28.85226544	2.125	0.0193375	[illegible]		66.60406355	20.30091857	0.004370149
54	1/20/05 20:25	28.881	38372.85	13.057	38372.85417	303.178751		38372.85124	28.84781482	2.16667	0.019716697	[illegible]		66.59290667	20.29751795	0.000969531
55	1/20/05 21:25	28.881	38372.89	13.055	38372.89583	421.842178		38372.89291	28.84824186	2.20834	0.020095894	[illegible]		66.59301718	20.29755164	0.001003214
56	1/20/05 22:25	28.88	38372.93	13.054	38372.9375	546.15028		38372.93457	28.84426879	2.25	0.020475	[illegible]		66.58296365	20.29448732	-0.002061102
57	1/20/05 23:25	28.881	38372.98	13.049	38372.97917	617.990858		38372.97624	28.83750249	2.29167	0.020854197	[illegible]		66.56645755	20.28945626	-0.007092162
58	1/21/05 0:25	28.909	38373.02	13.041	38373.02083	584.666008		38373.01791	28.85290575	2.33334	0.021233394	[illegible]		66.60116315	20.30003453	0.003486105
59	1/21/05 1:25	28.918	38373.06	13.036	38373.0625	415.14768		38373.05957	28.84938714	2.375	0.0216125	[illegible]		66.59215942	20.29729019	0.000741771
60	1/21/05 2:25	28.928	38373.1	13.028	38373.10417	111.568146		38373.10124	28.84647033	2.41667	0.021991697	[illegible]		66.58454565	20.29496951	-0.001578908

Information Only

SNL-1 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	ElapsedDays	DetrendCorrection	Sin-Trended PSI		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38370.68457	28.815	38370.68	13.137	38370.6875	201.383781		38370.68457	28.815	0	=J2*0.0091	=I2-K2		=L2*2.31	=N2*0.3048	=O2-O335
3	38370.72624	28.806	38370.73	13.143	38370.729167	230.023771		38370.72624	28.815	=H3-H2	=J3*0.0091	=I3-K3		=L3*2.31	=N3*0.3048	=O3-O335
4	38370.76791	28.797	38370.77	13.143	38370.770833	298.704368		38370.76791	28.815	=H4-H2	=J4*0.0091	=I4-K4		=L4*2.31	=N4*0.3048	=O4-O335
5	38370.80957	28.787	38370.81	13.143	38370.8125	393.450486		38370.80957	28.815	=H5-H2	=J5*0.0091	=I5-K5		=L5*2.31	=N5*0.3048	=O5-O335
6	38370.85124	28.797	38370.85	13.149	38370.854167	486.329518		38370.85124	28.815	=H6-H2	=J6*0.0091	=I6-K6		=L6*2.31	=N6*0.3048	=O6-O335
7	38370.89291	28.797	38370.89	13.151	38370.895833	541.48969		38370.89291	28.815	=H7-H2	=J7*0.0091	=I7-K7		=L7*2.31	=N7*0.3048	=O7-O335
8	38370.93457	28.796	38370.93	13.152	38370.9375	524.302177		38370.93457	28.815	=H8-H2	=J8*0.0091	=I8-K8		=L8*2.31	=N8*0.3048	=O8-O335
9	38370.97624	28.806	38370.98	13.146	38370.979167	411.560009		38370.97624	28.815	=H9-H2	=J9*0.0091	=I9-K9		=L9*2.31	=N9*0.3048	=O9-O335
10	38371.01791	28.815	38371.02	13.144	38371.020833	199.938038		38371.01791	28.815	=H10-H2	=J10*0.0091	=I10-K10		=L10*2.31	=N10*0.3048	=O10-O335
11	38371.05957	28.824	38371.06	13.139	38371.0625	-90.04429		38371.05957	28.815	=H11-H2	=J11*0.0091	=I11-K11		=L11*2.31	=N11*0.3048	=O11-O335
12	38371.10124	28.834	38371.1	13.141	38371.104167	-416.295534		38371.10124	28.815	=H12-H2	=J12*0.0091	=I12-K12		=L12*2.31	=N12*0.3048	=O12-O335
13	38371.14291	28.834	38371.14	13.138	38371.145833	-723.596692		38371.14291	28.815	=H13-H2	=J13*0.0091	=I13-K13		=L13*2.31	=N13*0.3048	=O13-O335
14	38371.18457	28.825	38371.18	13.143	38371.1875	-956.166151		38371.18457	28.815	=H14-H2	=J14*0.0091	=I14-K14		=L14*2.31	=N14*0.3048	=O14-O335
15	38371.22624	28.834	38371.23	13.145	38371.229167	-1070.882732		38371.22624	28.8374357617861	=H15-H2	=J15*0.0091	=I15-K15		=L15*2.31	=N15*0.3048	=O15-O335
16	38371.26791	28.825	38371.27	13.157	38371.270833	-1047.44449		38371.26791	28.8373086332406	=H16-H2	=J16*0.0091	=I16-K16		=L16*2.31	=N16*0.3048	=O16-O335
17	38371.30957	28.815	38371.31	13.169	38371.3125	-892.731254		38371.30957	28.836995137404	=H17-H2	=J17*0.0091	=I17-K17		=L17*2.31	=N17*0.3048	=O17-O335
18	38371.35124	28.805	38371.35	13.176	38371.354167	-638.458158		38371.35124	28.8337997596435	=H18-H2	=J18*0.0091	=I18-K18		=L18*2.31	=N18*0.3048	=O18-O335
19	38371.39291	28.796	38371.39	13.181	38371.395833	-333.137842		38371.39291	28.8276194147235	=H19-H2	=J19*0.0091	=I19-K19		=L19*2.31	=N19*0.3048	=O19-O335
20	38371.43457	28.806	38371.43	13.18	38371.4375	-30.751296		38371.43457	28.8369775671707	=H20-H2	=J20*0.0091	=I20-K20		=L20*2.31	=N20*0.3048	=O20-O335
21	38371.47624	28.806	38371.48	13.173	38371.479167	220.964145		38371.47624	28.8307127709287	=H21-H2	=J21*0.0091	=I21-K21		=L21*2.31	=N21*0.3048	=O21-O335
22	38371.51791	28.824	38371.52	13.154	38371.520833	390.001064		38371.51791	28.8361633503952	=H22-H2	=J22*0.0091	=I22-K22		=L22*2.31	=N22*0.3048	=O22-O335
23	38371.55957	28.833	38371.56	13.141	38371.5625	465.534859		38371.55957	28.8342611058	=H23-H2	=J23*0.0091	=I23-K23		=L23*2.31	=N23*0.3048	=O23-O335
24	38371.60124	28.834	38371.6	13.139	38371.604167	458.508125		38371.60124	28.8343831454351	=H24-H2	=J24*0.0091	=I24-K24		=L24*2.31	=N24*0.3048	=O24-O335
25	38371.64291	28.834	38371.64	13.138	38371.645833	397.449784		38371.64291	28.837096313302	=H25-H2	=J25*0.0091	=I25-K25		=L25*2.31	=N25*0.3048	=O25-O335
26	38371.68457	28.834	38371.68	13.13	38371.6875	320.465327		38371.68457	28.8384230796126	=H26-H2	=J26*0.0091	=I26-K26		=L26*2.31	=N26*0.3048	=O26-O335
27	38371.72624	28.834	38371.73	13.129	38371.729167	265.041864		38371.72624	28.8428534955846	=H27-H2	=J27*0.0091	=I27-K27		=L27*2.31	=N27*0.3048	=O27-O335
28	38371.76791	28.815	38371.77	13.133	38371.770833	257.834378		38371.76791	28.8320674813629	=H28-H2	=J28*0.0091	=I28-K28		=L28*2.31	=N28*0.3048	=O28-O335
29	38371.80957	28.815	38371.81	13.138	38371.8125	306.811001		38371.80957	28.839796641683	=H29-H2	=J29*0.0091	=I29-K29		=L29*2.31	=N29*0.3048	=O29-O335
30	38371.85124	28.815	38371.85	13.14	38371.854167	397.881941		38371.85124	28.8431377054507	=H30-H2	=J30*0.0091	=I30-K30		=L30*2.31	=N30*0.3048	=O30-O335
31	38371.89291	28.815	38371.89	13.143	38371.895833	497.321561		38371.89291	28.8444757546158	=H31-H2	=J31*0.0091	=I31-K31		=L31*2.31	=N31*0.3048	=O31-O335
32	38371.93457	28.815	38371.93	13.145	38371.9375	559.963028		38371.93457	28.8422852808232	=H32-H2	=J32*0.0091	=I32-K32		=L32*2.31	=N32*0.3048	=O32-O335
33	38371.97624	28.825	38371.98	13.138	38371.979167	541.547436		38371.97624	28.8433658788903	=H33-H2	=J33*0.0091	=I33-K33		=L33*2.31	=N33*0.3048	=O33-O335
34	38372.01791	28.833	38372.02	13.123	38372.020833	412.182156		38372.01791	28.8352901207329	=H34-H2	=J34*0.0091	=I34-K34		=L34*2.31	=N34*0.3048	=O34-O335
35	38372.05957	28.853	38372.06	13.115	38372.0625	167.126304		38372.05957	28.8416604567846	=H35-H2	=J35*0.0091	=I35-K35		=L35*2.31	=N35*0.3048	=O35-O335
36	38372.10124	28.872	38372.1	13.102	38372.104167	-168.521241		38372.10124	28.846859616462	=H36-H2	=J36*0.0091	=I36-K36		=L36*2.31	=N36*0.3048	=O36-O335
37	38372.14291	28.881	38372.14	13.095	38372.145833	-543.133239		38372.14291	28.845984384189	=H37-H2	=J37*0.0091	=I37-K37		=L37*2.31	=N37*0.3048	=O37-O335
38	38372.18457	28.89	38372.18	13.088	38372.1875	-889.45939		38372.18457	28.8468216763893	=H38-H2	=J38*0.0091	=I38-K38		=L38*2.31	=N38*0.3048	=O38-O335
39	38372.22624	28.89	38372.23	13.091	38372.229167	-1140.37604		38372.22624	28.8501699778828	=H39-H2	=J39*0.0091	=I39-K39		=L39*2.31	=N39*0.3048	=O39-O335
40	38372.26791	28.881	38372.27	13.096	38372.270833	-1245.184091		38372.26791	28.8486233878677	=H40-H2	=J40*0.0091	=I40-K40		=L40*2.31	=N40*0.3048	=O40-O335
41	38372.30957	28.88	38372.31	13.103	38372.3125	-1181.970329		38372.30957	28.8532534835598	=H41-H2	=J41*0.0091	=I41-K41		=L41*2.31	=N41*0.3048	=O41-O335
42	38372.35124	28.872	38372.35	13.106	38372.354167	-962.758472		38372.35124	28.8504618768425	=H42-H2	=J42*0.0091	=I42-K42		=L42*2.31	=N42*0.3048	=O42-O335
43	38372.39291	28.872	38372.39	13.115	38372.395833	-630.308613		38372.39291	28.8567335433089	=H43-H2	=J43*0.0091	=I43-K43		=L43*2.31	=N43*0.3048	=O43-O335
44	38372.43457	28.862	38372.43	13.113	38372.4375	-247.717519		38372.43457	28.8463173783754	=H44-H2	=J44*0.0091	=I44-K44		=L44*2.31	=N44*0.3048	=O44-O335
45	38372.47624	28.872	38372.48	13.102	38372.479167	116.278299		38372.47624	28.848162909276	=H45-H2	=J45*0.0091	=I45-K45		=L45*2.31	=N45*0.3048	=O45-O335
46	38372.51791	28.89	38372.52	13.082	38372.520833	402.589538		38372.51791	28.8501143077887	=H46-H2	=J46*0.0091	=I46-K46		=L46*2.31	=N46*0.3048	=O46-O335
47	38372.55957	28.9	38372.56	13.065	38372.5625	574.113953		38372.55957	28.8457908561173	=H47-H2	=J47*0.0091	=I47-K47		=L47*2.31	=N47*0.3048	=O47-O335
48	38372.60124	28.908	38372.6	13.057	38372.604167	622.508502		38372.60124	28.8454275061386	=H48-H2	=J48*0.0091	=I48-K48		=L48*2.31	=N48*0.3048	=O48-O335
49	38372.64291	28.9	38372.64	13.055	38372.645833	568.115276		38372.64291	28.8369536243922	=H49-H2	=J49*0.0091	=I49-K49		=L49*2.31	=N49*0.3048	=O49-O335
50	38372.68457	28.909	38372.68	13.054	38372.6875	453.239863		38372.68457	28.8491574832778	=H50-H2	=J50*0.0091	=I50-K50		=L50*2.31	=N50*0.3048	=O50-O335
51	38372.72624	28.9	38372.73	13.053	38372.729167	330.364153		38372.72624	28.8460942556763	=H51-H2	=J51*0.0091	=I51-K51		=L51*2.31	=N51*0.3048	=O51-O335
52	38372.76791	28.889	38372.77	13.054	38372.770833	247.971271		38372.76791	28.8424954049422	=H52-H2	=J52*0.0091	=I52-K52		=L52*2.31	=N52*0.3048	=O52-O335
53	38372.80957	28.89	38372.81	13.057	38372.8125	237.28168		38372.80957	28.8522654443108	=H53-H2	=J53*0.0091	=I53-K53		=L53*2.31	=N53*0.3048	=O53-O335
54	38372.85124	28.881	38372.85	13.057	38372.854167	303.178751		38372.85124	28.8478148225616	=H54-H2	=J54*0.0091	=I54-K54		=L54*2.31	=N54*0.3048	=O54-O335
55	38372.89291	28.881	38372.89	13.055	38372.895833	421.842178		38372.89291	28.8482416585781	=H55-H2	=J55*0.0091	=I55-K55		=L55*2.31	=N55*0.3048	=O55-O335
56	38372.93457	28.88	38372.93	13.054	38372.9375	546.15028		38372.93457	28.844268787521	=H56-H2	=J56*0.0091	=I56-K56		=L56*2.31	=N56*0.3048	=O56-O335
57	38372.97624	28.881	38372.98	13.049	38372.979167	617.990858		38372.97624	28.8375024857423	=H57-H2	=J57*0.0091	=I57-K57		=L57*2.31	=N57*0.3048	=O57-O335
58	38373.01791	28.909	38373.02	13.041	38373.020833	584.666008		38373.01791	28.8529057519662	=H58-H2	=J58*0.0091	=I58-K58		=L58*2.31	=N58*0.3048	=O58-O335
59	38373.05957	28.918	38373.06	13.036	38373.0625	415.14768		38373.05957	28.8493871427719	=H59-H2	=J59*0.0091	=I59-K59		=L59*2.31	=N59*0.3048	=O59-O335
60	38373.10124	28.928	38373.1	13.028	38373.104167	111.568146		38373.10124	28.8464703329291	=H60-H2	=J60*0.0091	=I60-K60		=L60*2.31	=N60*0.3048	=O60-O335

Information Only

SNL-2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure					Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/25/05 10:03	87.1	38377.42333	13.056	38377.41667	850.922846	1	38377.41897	87.1					201.201	61.3260648	-0.143975533
3	1/25/05 11:03	87.118	38377.465	13.044	38377.45833	809.988041	1	38377.46064	87.1					201.201	61.3260648	-0.143975533
4	1/25/05 12:03	87.138	38377.50667	13.026	38377.5	563.580892	1	38377.5023	87.1					201.201	61.3260648	-0.143975533
5	1/25/05 13:03	87.165	38377.54833	13.012	38377.54167	134.908942	1	38377.54397	87.1					201.201	61.3260648	-0.143975533
6	1/25/05 14:03	87.183	38377.59	13.002	38377.58333	-403.275338	1	38377.58564	87.1					201.201	61.3260648	-0.143975533
7	1/25/05 15:03	87.203	38377.63167	12.995	38377.625	-944.394372	1	38377.6273	87.1					201.201	61.3260648	-0.143975533
8	1/25/05 16:03	87.212	38377.67333	12.998	38377.66667	-1373.436534	1	38377.66897	87.1					201.201	61.3260648	-0.143975533
9	1/25/05 17:03	87.221	38377.715	12.999	38377.70833	-1595.628317	1	38377.71064	87.1					201.201	61.3260648	-0.143975533
10	1/25/05 18:03	87.23	38377.75667	13.008	38377.75	-1560.746227	1	38377.7523	87.1					201.201	61.3260648	-0.143975533
11	1/25/05 19:03	87.222	38377.79833	13.016	38377.79167	-1276.327811	1	38377.79397	87.1					201.201	61.3260648	-0.143975533
12	1/25/05 20:03	87.213	38377.84	13.022	38377.83333	-805.985979	1	38377.83564	87.1					201.201	61.3260648	-0.143975533
13	1/25/05 21:03	87.215	38377.88167	13.027	38377.875	-253.199433	1	38377.8773	87.1					201.201	61.3260648	-0.143975533
14	1/25/05 22:03	87.206	38377.92333	13.033	38377.91667	264.946165	1	38377.91897	87.1					201.201	61.3260648	-0.143975533
15	1/25/05 23:03	87.196	38377.965	13.035	38377.95833	646.851322	1	38377.96064	87.20497751					201.443498	61.3999782	-0.070062128
16	1/26/05 0:03	87.196	38378.00667	13.036	38378	830.548793	1	38378.0023	87.2098442					201.4547401	61.40340478	-0.066635553
17	1/26/05 1:03	87.196	38378.04833	13.042	38378.04167	806.783453	1	38378.04397	87.21393379					201.4641871	61.40628422	-0.063756115
18	1/26/05 2:03	87.216	38378.09	13.036	38378.08333	618.143045	1	38378.08564	87.22636868					201.4929116	61.41503947	-0.055000865
19	1/26/05 3:03	87.224	38378.13167	13.029	38378.125	345.116734	1	38378.1273	87.221717					201.4821663	61.41176428	-0.058276057
20	1/26/05 4:03	87.234	38378.17333	13.033	38378.16667	83.195064	1	38378.16897	87.22431445					201.4881664	61.41359311	-0.056447224
21	1/26/05 5:03	87.253	38378.215	13.037	38378.20833	-82.904554	1	38378.21064	87.23720943					201.5179538	61.42267231	-0.047368019
22	1/26/05 6:03	87.253	38378.25667	13.046	38378.25	-101.41641	1	38378.2523	87.23600385					201.5151689	61.42182348	-0.048216851
23	1/26/05 7:03	87.253	38378.29833	13.052	38378.29167	33.237032	1	38378.29397	87.23656126					201.5164565	61.42221595	-0.047824387
24	1/26/05 8:03	87.253	38378.34	13.063	38378.33333	279.224038	1	38378.33564	87.24401067					201.5336646	61.42746098	-0.042579349
25	1/26/05 9:03	87.245	38378.38167	13.068	38378.375	558.289463	1	38378.3773	87.24296464					201.5312483	61.42672449	-0.043315847
26	1/26/05 10:03	87.245	38378.42333	13.071	38378.41667	776.264521	1	38378.41897	87.25007393					201.5476708	61.43173005	-0.038310283
27	1/26/05 11:03	87.236	38378.465	13.07	38378.45833	848.145149	1	38378.46064	87.24565745					201.5374687	61.42862046	-0.041419871
28	1/26/05 12:03	87.245	38378.50667	13.052	38378.5	721.593789	1	38378.5023	87.24649767					201.5394096	61.42921205	-0.040828278
29	1/26/05 13:03	87.254	38378.54833	13.04	38378.54167	392.89928	1	38378.54397	87.24728548					201.5412295	61.42976674	-0.040273594
30	1/26/05 14:03	87.263	38378.59	13.035	38378.58333	-88.979662	1	38378.58564	87.25075709					201.5492489	61.43221106	-0.037829273
31	1/26/05 15:03	87.272	38378.63167	13.035	38378.625	-631.899234	1	38378.6273	87.25609838					201.5615873	61.4359718	-0.034068534
32	1/26/05 16:03	87.283	38378.67333	13.037	38378.66667	-1121.756365	1	38378.66897	87.26382232					201.5794295	61.44141013	-0.028630207
33	1/26/05 17:03	87.283	38378.715	13.042	38378.70833	-1450.430462	1	38378.71064	87.26359459					201.5789035	61.44124979	-0.028790545
34	1/26/05 18:03	87.274	38378.75667	13.054	38378.75	-1543.26218	1	38378.7523	87.26124435					201.5734745	61.43959501	-0.03044532
35	1/26/05 19:03	87.283	38378.79833	13.046	38378.79167	-1378.601878	1	38378.79397	87.2672019					201.5872364	61.44378965	-0.02625068
36	1/26/05 20:03	87.274	38378.84	13.051	38378.83333	-993.848319	1	38378.83564	87.26495526					201.5820467	61.44220782	-0.027832513
37	1/26/05 21:03	87.264	38378.88167	13.059	38378.875	-476.069445	1	38378.8773	87.26741831					201.5877363	61.44394202	-0.026098309
38	1/26/05 22:03	87.246	38378.92333	13.066	38378.91667	60.31664	1	38378.91897	87.26291701					201.5773383	61.44077271	-0.029267621
39	1/26/05 23:03	87.246	38378.965	13.059	38378.95833	502.620348	1	38378.96064	87.26622965					201.5849905	61.4431051	-0.026935234
40	1/27/05 0:03	87.255	38379.00667	13.044	38379	767.719931	1	38379.0023	87.27029038					201.5943708	61.44596421	-0.024076122
41	1/27/05 1:03	87.257	38379.04833	13.04	38379.04167	821.256632	1	38379.04397	87.27020384					201.5941709	61.44590328	-0.024137052
42	1/27/05 2:03	87.266	38379.09	13.039	38379.08333	683.475992	1	38379.08564	87.27586887					201.6072571	61.44989196	-0.020148374
43	1/27/05 3:03	87.275	38379.13167	13.038	38379.125	420.834269	1	38379.1273	87.27817998					201.6125958	61.45151919	-0.018521146
44	1/27/05 4:03	87.275	38379.17333	13.039	38379.16667	126.250731	1	38379.16897	87.27039711					201.5946173	61.44603936	-0.024000973
45	1/27/05 5:03	87.284	38379.215	13.039	38379.20833	-106.422022	1	38379.21064	87.27087712					201.5957261	61.44637733	-0.023663006
46	1/27/05 6:03	87.293	38379.25667	13.036	38379.25	-207.064692	1	38379.2523	87.2701754					201.5941052	61.44588325	-0.024157079
47	1/27/05 7:03	87.304	38379.29833	13.037	38379.29167	-147.05034	1	38379.29397	87.27670024					201.6091776	61.45047732	-0.019563016
48	1/27/05 8:03	87.293	38379.34	13.044	38379.33333	54.001703	1	38379.33564	87.26870042					201.590698	61.44484474	-0.025195589
49	1/27/05 9:03	87.295	38379.38167	13.053	38379.375	333.831042	1	38379.3773	87.27892571					201.6143184	61.45204425	-0.017996088
50	1/27/05 10:03	87.285	38379.42333	13.055	38379.41667	603.945483	1	38379.41897	87.27535843					201.606078	61.44953257	-0.020507767
51	1/27/05 11:03	87.284	38379.465	13.051	38379.45833	772.804567	1	38379.46064	87.27762056					201.6113035	61.45112531	-0.018915026
52	1/27/05 12:03	87.285	38379.50667	13.036	38379.5	770.186627	1	38379.5023	87.27363334					201.602093	61.44831795	-0.021722385
53	1/27/05 13:03	87.295	38379.54833	13.019	38379.54167	566.799028	1	38379.54397	87.27409454					201.6031584	61.44864267	-0.021397659
54	1/27/05 14:03	87.295	38379.59	13.014	38379.58333	184.141667	1	38379.58564	87.26949178					201.592526	61.44540193	-0.024638406
55	1/27/05 15:03	87.304	38379.63167	13.016	38379.625	-308.240813	1	38379.6273	87.27711208					201.6101289	61.45076729	-0.019273045
56	1/27/05 16:03	87.313	38379.67333	13.009	38379.66667	-808.027709	1	38379.66897	87.27769141					201.6114671	61.45117519	-0.018865147
57	1/27/05 17:03	87.313	38379.715	13.025	38379.70833	-1204.614799	1	38379.71064	87.28352482					201.6249423	61.45528242	-0.014757909
58	1/27/05 18:03	87.314	38379.75667	13.03	38379.75	-1406.855237	1	38379.7523	87.2866244					201.6321024	61.4574648	-0.012575531
59	1/27/05 19:03	87.313	38379.79833	13.033	38379.79167	-1366.759324	1	38379.79397	87.28767052					201.6345189	61.45820136	-0.011838975
60	1/27/05 20:03	87.313	38379.84	13.029	38379.83333	-1092.524389	1	38379.83564	87.28750502					201.6341366	61.45808483	-0.011955499

Information Only

SNL-2 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure					Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38377.4189699999	87.1	38377.42333	13.056	38377.41667	850.922846	=IF(MINUTE(A2)=3,1,0)	38377.4189699999	87.1					=I2*2.31	=N2*0.3048	=O2-O172
3	38377.46064	87.118	38377.465	13.044	38377.45833	809.988041	=IF(MINUTE(A3)=3,1,0)	38377.46064	87.1					=I3*2.31	=N3*0.3048	=O3-O172
4	38377.5023	87.138	38377.50667	13.026	38377.5	563.580892	=IF(MINUTE(A4)=3,1,0)	38377.5023	87.1					=I4*2.31	=N4*0.3048	=O4-O172
5	38377.5439699999	87.165	38377.54833	13.012	38377.54167	134.908942	=IF(MINUTE(A5)=3,1,0)	38377.5439699999	87.1					=I5*2.31	=N5*0.3048	=O5-O172
6	38377.58564	87.183	38377.59	13.002	38377.58333	-403.275338	=IF(MINUTE(A6)=3,1,0)	38377.58564	87.1					=I6*2.31	=N6*0.3048	=O6-O172
7	38377.6273	87.203	38377.63167	12.995	38377.625	-944.394372	=IF(MINUTE(A7)=3,1,0)	38377.6273	87.1					=I7*2.31	=N7*0.3048	=O7-O172
8	38377.6689699999	87.212	38377.67333	12.998	38377.66667	-1373.436534	=IF(MINUTE(A8)=3,1,0)	38377.6689699999	87.1					=I8*2.31	=N8*0.3048	=O8-O172
9	38377.71064	87.221	38377.715	12.999	38377.70833	-1595.628317	=IF(MINUTE(A9)=3,1,0)	38377.71064	87.1					=I9*2.31	=N9*0.3048	=O9-O172
10	38377.7523	87.23	38377.75667	13.008	38377.75	-1560.746227	=IF(MINUTE(A10)=3,1,0)	38377.7523	87.1					=I10*2.31	=N10*0.3048	=O10-O172
11	38377.7939699999	87.222	38377.79833	13.016	38377.79167	-1276.327811	=IF(MINUTE(A11)=3,1,0)	38377.7939699999	87.1					=I11*2.31	=N11*0.3048	=O11-O172
12	38377.83564	87.213	38377.84	13.022	38377.83333	-805.985979	=IF(MINUTE(A12)=3,1,0)	38377.83564	87.1					=I12*2.31	=N12*0.3048	=O12-O172
13	38377.8773	87.215	38377.88167	13.027	38377.875	-253.199433	=IF(MINUTE(A13)=3,1,0)	38377.8773	87.1					=I13*2.31	=N13*0.3048	=O13-O172
14	38377.9189699999	87.206	38377.92333	13.033	38377.91667	264.946165	=IF(MINUTE(A14)=3,1,0)	38377.9189699999	87.1					=I14*2.31	=N14*0.3048	=O14-O172
15	38377.96064	87.196	38377.965	13.035	38377.95833	646.851322	=IF(MINUTE(A15)=3,1,0)	38377.96064	87.2049775098901					=I15*2.31	=N15*0.3048	=O15-O172
16	38378.0023	87.196	38378.00667	13.036	38378	830.548793	=IF(MINUTE(A16)=3,1,0)	38378.0023	87.2098441957766					=I16*2.31	=N16*0.3048	=O16-O172
17	38378.0439699999	87.196	38378.04833	13.042	38378.04167	806.783453	=IF(MINUTE(A17)=3,1,0)	38378.0439699999	87.2139337944479					=I17*2.31	=N17*0.3048	=O17-O172
18	38378.08564	87.216	38378.09	13.036	38378.08333	618.143045	=IF(MINUTE(A18)=3,1,0)	38378.08564	87.2263686765306					=I18*2.31	=N18*0.3048	=O18-O172
19	38378.1273	87.224	38378.13167	13.029	38378.125	345.116734	=IF(MINUTE(A19)=3,1,0)	38378.1273	87.2217169951413					=I19*2.31	=N19*0.3048	=O19-O172
20	38378.1689699999	87.234	38378.17333	13.033	38378.16667	83.195064	=IF(MINUTE(A20)=3,1,0)	38378.1689699999	87.2243144457086					=I20*2.31	=N20*0.3048	=O20-O172
21	38378.21064	87.253	38378.215	13.037	38378.20833	-82.904554	=IF(MINUTE(A21)=3,1,0)	38378.21064	87.2372094304869					=I21*2.31	=N21*0.3048	=O21-O172
22	38378.2523	87.253	38378.25667	13.046	38378.25	-101.41641	=IF(MINUTE(A22)=3,1,0)	38378.2523	87.2360038544879					=I22*2.31	=N22*0.3048	=O22-O172
23	38378.2939699999	87.253	38378.29833	13.052	38378.29167	33.237032	=IF(MINUTE(A23)=3,1,0)	38378.2939699999	87.236581262848					=I23*2.31	=N23*0.3048	=O23-O172
24	38378.33564	87.253	38378.34	13.063	38378.33333	279.224038	=IF(MINUTE(A24)=3,1,0)	38378.33564	87.2440106695825					=I24*2.31	=N24*0.3048	=O24-O172
25	38378.3773	87.245	38378.38167	13.068	38378.375	558.289463	=IF(MINUTE(A25)=3,1,0)	38378.3773	87.2429646379195					=I25*2.31	=N25*0.3048	=O25-O172
26	38378.4189699999	87.245	38378.42333	13.071	38378.41667	776.264521	=IF(MINUTE(A26)=3,1,0)	38378.4189699999	87.2500739251254					=I26*2.31	=N26*0.3048	=O26-O172
27	38378.46064	87.236	38378.465	13.07	38378.45833	848.145149	=IF(MINUTE(A27)=3,1,0)	38378.46064	87.2456574449328					=I27*2.31	=N27*0.3048	=O27-O172
28	38378.5023	87.245	38378.50667	13.052	38378.5	721.593789	=IF(MINUTE(A28)=3,1,0)	38378.5023	87.2464976745135					=I28*2.31	=N28*0.3048	=O28-O172
29	38378.5439699999	87.254	38378.54833	13.04	38378.54167	392.89928	=IF(MINUTE(A29)=3,1,0)	38378.5439699999	87.247285480477					=I29*2.31	=N29*0.3048	=O29-O172
30	38378.58564	87.263	38378.59	13.035	38378.58333	-88.979662	=IF(MINUTE(A30)=3,1,0)	38378.58564	87.2507570925937					=I30*2.31	=N30*0.3048	=O30-O172
31	38378.6273	87.272	38378.63167	13.035	38378.625	-631.899234	=IF(MINUTE(A31)=3,1,0)	38378.6273	87.25609838442					=I31*2.31	=N31*0.3048	=O31-O172
32	38378.6689699999	87.283	38378.67333	13.037	38378.66667	-1121.756365	=IF(MINUTE(A32)=3,1,0)	38378.6689699999	87.2638223150099					=I32*2.31	=N32*0.3048	=O32-O172
33	38378.71064	87.283	38378.715	13.042	38378.70833	-1450.430462	=IF(MINUTE(A33)=3,1,0)	38378.71064	87.2635945900521					=I33*2.31	=N33*0.3048	=O33-O172
34	38378.7523	87.274	38378.75667	13.054	38378.75	-1543.26218	=IF(MINUTE(A34)=3,1,0)	38378.7523	87.2612443512841					=I34*2.31	=N34*0.3048	=O34-O172
35	38378.7939699999	87.283	38378.79833	13.046	38378.79167	-1378.601878	=IF(MINUTE(A35)=3,1,0)	38378.7939699999	87.267201902303					=I35*2.31	=N35*0.3048	=O35-O172
36	38378.83564	87.274	38378.84	13.051	38378.83333	-993.848319	=IF(MINUTE(A36)=3,1,0)	38378.83564	87.2649552618679					=I36*2.31	=N36*0.3048	=O36-O172
37	38378.8773	87.264	38378.88167	13.059	38378.875	-476.069445	=IF(MINUTE(A37)=3,1,0)	38378.8773	87.2674183111261					=I37*2.31	=N37*0.3048	=O37-O172
38	38378.9189699999	87.246	38378.92333	13.066	38378.91667	60.31664	=IF(MINUTE(A38)=3,1,0)	38378.9189699999	87.2629170099665					=I38*2.31	=N38*0.3048	=O38-O172
39	38378.96064	87.246	38378.965	13.059	38378.95833	502.620348	=IF(MINUTE(A39)=3,1,0)	38378.96064	87.2662296459941					=I39*2.31	=N39*0.3048	=O39-O172
40	38379.0023	87.255	38379.00667	13.044	38379	767.719931	=IF(MINUTE(A40)=3,1,0)	38379.0023	87.2702903770067					=I40*2.31	=N40*0.3048	=O40-O172
41	38379.0439699999	87.257	38379.04833	13.04	38379.04167	821.256632	=IF(MINUTE(A41)=3,1,0)	38379.0439699999	87.2702038398406					=I41*2.31	=N41*0.3048	=O41-O172
42	38379.08564	87.266	38379.09	13.039	38379.08333	683.475992	=IF(MINUTE(A42)=3,1,0)	38379.08564	87.275868867322					=I42*2.31	=N42*0.3048	=O42-O172
43	38379.1273	87.275	38379.13167	13.038	38379.125	420.834269	=IF(MINUTE(A43)=3,1,0)	38379.1273	87.2781799823485					=I43*2.31	=N43*0.3048	=O43-O172
44	38379.1689699999	87.275	38379.17333	13.039	38379.16667	126.250731	=IF(MINUTE(A44)=3,1,0)	38379.1689699999	87.2703971090693					=I44*2.31	=N44*0.3048	=O44-O172
45	38379.21064	87.284	38379.215	13.039	38379.20833	-106.422022	=IF(MINUTE(A45)=3,1,0)	38379.21064	87.2708771167942					=I45*2.31	=N45*0.3048	=O45-O172
46	38379.2523	87.293	38379.25667	13.036	38379.25	-207.064692	=IF(MINUTE(A46)=3,1,0)	38379.2523	87.27017539556699					=I46*2.31	=N46*0.3048	=O46-O172
47	38379.2939699999	87.304	38379.29833	13.037	38379.29167	-147.05034	=IF(MINUTE(A47)=3,1,0)	38379.2939699999	87.2767002381477					=I47*2.31	=N47*0.3048	=O47-O172
48	38379.33564	87.293	38379.34	13.044	38379.33333	54.001703	=IF(MINUTE(A48)=3,1,0)	38379.33564	87.2687004240732					=I48*2.31	=N48*0.3048	=O48-O172
49	38379.3773	87.295	38379.38167	13.053	38379.375	333.831042	=IF(MINUTE(A49)=3,1,0)	38379.3773	87.2789257100878					=I49*2.31	=N49*0.3048	=O49-O172
50	38379.4189699999	87.285	38379.42333	13.055	38379.41667	603.945483	=IF(MINUTE(A50)=3,1,0)	38379.4189699999	87.2753584289907					=I50*2.31	=N50*0.3048	=O50-O172
51	38379.46064	87.284	38379.465	13.051	38379.45833	772.804567	=IF(MINUTE(A51)=3,1,0)	38379.46064	87.2776205632584					=I51*2.31	=N51*0.3048	=O51-O172
52	38379.5023	87.285	38379.50667	13.036	38379.5	770.186627	=IF(MINUTE(A52)=3,1,0)	38379.5023	87.2736333353894					=I52*2.31	=N52*0.3048	=O52-O172
53	38379.5439699999	87.295	38379.54833	13.019	38379.54167	566.799028	=IF(MINUTE(A53)=3,1,0)	38379.5439699999	87.274094536586					=I53*2.31	=N53*0.3048	=O53-O172
54	38379.58564	87.295	38379.59	13.014	38379.58333	184.141667	=IF(MINUTE(A54)=3,1,0)	38379.58564	87.2694917784393					=I54*2.31	=N54*0.3048	=O54-O172
55	38379.6273	87.304	38379.63167	13.016	38379.625	-308.240813	=IF(MINUTE(A55)=3,1,0)	38379.6273	87.2771120774713					=I55*2.31	=N55*0.3048	=O55-O172
56	38379.6689699999	87.313	38379.67333	13.009	38379.66667	-808.027709	=IF(MINUTE(A56)=3,1,0)	38379.6689699999	87.2776914056024					=I56*2.31	=N56*0.3048	=O56-O172
57	38379.71064	87.313	38379.715	13.025	38379.70833	-1204.614799	=IF(MINUTE(A57)=3,1,0)	38379.71064	87.283524821089					=I57*2.31	=N57*0.3048	=O57-O172
58	38379.7523	87.314	38379.75667	13.03	38379.75	-1406.855237	=IF(MINUTE(A58)=3,1,0)	38379.7523	87.2868244019437					=I58*2.31	=N58*0.3048	=O58-O172
59	38379.7939699999	87.313	38379.79833	13.033	38379.79167	-1366.759324	=IF(MINUTE(A59)=3,1,0)	38379.7939699999	87.2876705162853					=I59*2.31	=N59*0.3048	=O59-O172
60	38379.83564	87.313	38379.84	13.029	38379.83333	-1092.524889	=IF(MINUTE(A60)=3,1,0)	38379.83564	87.2875050198313					=I60*2.31	=N60*0.3048	=O60-O172

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	Elapsed Day	Detrend Variable	Detrended		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	9/10/2004 10:15	77.847	38240.44	13.127	38240.43056	330.257911		38240.42721	77.847	0	0	77.847		179.82657	54.81113854	-0.553421506
3	9/10/2004 11:15	77.856	38240.47	13.117	38240.47222	495.081683		38240.46888	77.847	0.04167	0.000168555	77.84603144		179.8261806	54.81101986	-0.553540184
4	9/10/2004 12:15	77.875	38240.51	13.107	38240.51389	566.469265		38240.51054	77.847	0.08333	0.00033707	77.84686293		179.8257914	54.81090121	-0.553658833
5	9/10/2004 13:15	77.883	38240.55	13.098	38240.55556	493.243583		38240.55221	77.847	0.125	0.000505625	77.84769438		179.825402	54.81078253	-0.553777511
6	9/10/2004 14:15	77.901	38240.59	13.09	38240.59722	260.296272		38240.59388	77.847	0.16667	0.00067418	77.84832582		179.8250126	54.81066385	-0.553896188
7	9/10/2004 15:15	77.911	38240.64	13.085	38240.63889	-104.069398		38240.63554	77.847	0.20833	0.000842695	77.84815701		179.8246234	54.8105452	-0.554014837
8	9/10/2004 16:15	77.921	38240.68	13.084	38240.68056	-532.49157		38240.67721	77.847	0.25	0.00101125	77.84798875		179.824234	54.81042653	-0.554133515
9	9/10/2004 17:15	77.921	38240.72	13.087	38240.72222	-934.041721		38240.71888	77.847	0.29167	0.001179805	77.84882019		179.8238447	54.81030785	-0.554252193
10	9/10/2004 18:15	77.921	38240.76	13.09	38240.76389	-1216.987877		38240.76054	77.847	0.33333	0.00134832	77.84965168		179.8234554	54.8101892	-0.554370842
11	9/10/2004 19:15	77.901	38240.8	13.098	38240.80556	-1312.650231		38240.80221	77.847	0.375	0.001516875	77.84848313		179.823066	54.81007052	-0.55448952
12	9/10/2004 20:15	77.893	38240.84	13.105	38240.84722	-1193.682359		38240.84388	77.847	0.41667	0.00168543	77.84531457		179.8226767	54.80995184	-0.554608197
13	9/10/2004 21:15	77.893	38240.89	13.105	38240.88889	-881.663254		38240.88554	77.847	0.45833	0.001853945	77.84314605		179.8222874	54.8098332	-0.554726846
14	9/10/2004 22:15	77.893	38240.93	13.104	38240.93056	-441.972954		38240.92721	77.847	0.5	0.0020225	77.8449775		179.821898	54.80971452	-0.554845524
15	9/10/2004 23:15	77.884	38240.97	13.102	38240.97222	32.481316		38240.96888	77.88390221	0.54167	0.002191055	77.88171115		179.9067528	54.83557824	-0.528981801
16	9/11/2004 0:15	77.884	38241.01	13.101	38241.01389	444.156463		38241.01054	77.88260887	0.58333	0.00235957	77.88024403		179.9038379	54.83468979	-0.529870256
17	9/11/2004 1:15	77.902	38241.05	13.099	38241.05556	714.330847		38241.05221	77.89822743	0.625	0.002528125	77.89569931		179.9390654	54.84542713	-0.519132908
18	9/11/2004 2:15	77.902	38241.09	13.101	38241.09722	801.262822		38241.09388	77.8969882	0.66667	0.00269668	77.89429151		179.9358134	54.84443592	-0.520124118
19	9/11/2004 3:15	77.911	38241.14	13.093	38241.13889	708.810835		38241.13554	77.89994145	0.70833	0.002865195	77.89707625		179.9422461	54.84639663	-0.518163417
20	9/11/2004 4:15	77.919	38241.18	13.09	38241.18056	483.757121		38241.17721	77.90364285	0.75	0.00303375	77.90060891		179.950407	54.84888406	-0.515675983
21	9/11/2004 5:15	77.91	38241.22	13.102	38241.22222	202.76575		38241.21888	77.89975277	0.79167	0.003202305	77.89655047		179.9410316	54.84602642	-0.518533618
22	9/11/2004 6:15	77.893	38241.26	13.109	38241.26389	-47.755981		38241.26054	77.88842522	0.83333	0.00337082	77.8850544		179.9144757	54.83793218	-0.526627857
23	9/11/2004 7:15	77.875	38241.3	13.114	38241.30556	-194.050003		38241.30221	77.87564981	0.875	0.003539375	77.87211043		179.8845751	54.82881849	-0.535741553
24	9/11/2004 8:15	77.856	38241.34	13.118	38241.34722	-194.273513		38241.34388	77.86169663	0.91667	0.00370793	77.8579587		179.8519539	54.81887555	-0.545684493
25	9/11/2004 9:15	77.847	38241.39	13.119	38241.38889	-49.877955		38241.38554	77.85553641	0.95833	0.003876445	77.85165997		179.8373345	54.81441956	-0.550140478
26	9/11/2004 10:15	77.847	38241.43	13.117	38241.43056	193.948592		38241.42721	77.85598608	1	0.004045	77.85194108		179.8379839	54.81461749	-0.549942552
27	9/11/2004 11:15	77.856	38241.47	13.105	38241.47222	459.307597		38241.46888	77.85872726	1.04167	0.004213555	77.85451371		179.8439267	54.81642885	-0.548131195
28	9/11/2004 12:15	77.875	38241.51	13.094	38241.51389	655.788842		38241.51054	77.86916636	1.08333	0.00438207	77.86478429		179.8676517	54.82366024	-0.540899802
29	9/11/2004 13:15	77.893	38241.55	13.086	38241.55556	705.048385		38241.55221	77.87882358	1.125	0.004550625	77.87427296		179.8895705	54.83034109	-0.534218948
30	9/11/2004 14:15	77.911	38241.59	13.075	38241.59722	563.472386		38241.59388	77.88626034	1.16667	0.00471918	77.88154116		179.9063601	54.83545855	-0.529101488
31	9/11/2004 15:15	77.93	38241.64	13.065	38241.63889	236.661813		38241.63554	77.89396318	1.20833	0.004887695	77.88907549		179.9237644	54.84076338	-0.52379666
32	9/11/2004 16:15	77.939	38241.68	13.062	38241.68056	-218.759606		38241.67721	77.89689207	1.25	0.00505625	77.89183582		179.9301407	54.8427069	-0.521853147
33	9/11/2004 17:15	77.939	38241.72	13.063	38241.72222	-707.274046		38241.71888	77.8961878	1.29167	0.005224805	77.89096299		179.9281245	54.84209235	-0.522467691
34	9/11/2004 18:15	77.939	38241.76	13.065	38241.76389	-1117.879057		38241.76054	77.89791486	1.33333	0.00539332	77.89252154		179.9317248	54.84318971	-0.521370333
35	9/11/2004 19:15	77.93	38241.8	13.07	38241.80556	-1352.689669		38241.80221	77.89390367	1.375	0.005561875	77.8883418		179.9220695	54.8402468	-0.524313243
36	9/11/2004 20:15	77.921	38241.84	13.079	38241.84722	-1352.857696		38241.84388	77.89373994	1.41667	0.00573043	77.88800951		179.921302	54.84001284	-0.524547201
37	9/11/2004 21:15	77.901	38241.89	13.084	38241.88889	-1114.494018		38241.88554	77.88151308	1.45833	0.005898945	77.87561414		179.8926687	54.83128541	-0.533274636
38	9/11/2004 22:15	77.893	38241.93	13.088	38241.93056	-690.099025		38241.92721	77.87990601	1.5	0.0060675	77.87383651		179.888567	54.83003521	-0.534524831
39	9/11/2004 23:15	77.893	38241.97	13.084	38241.97222	-175.184299		38241.96888	77.8805076	1.54167	0.006236055	77.87427155		179.8895673	54.8303401	-0.534219937
40	9/12/2004 0:15	77.902	38242.02	13.085	38242.01389	316.062502		38242.01054	77.89058381	1.58333	0.00640457	77.88417924		179.912454	54.83731599	-0.527244049
41	9/12/2004 1:15	77.911	38242.05	13.086	38242.05556	679.352143		38242.05221	77.90002445	1.625	0.006573125	77.89345133		179.9338726	54.84384436	-0.520715684
42	9/12/2004 2:15	77.921	38242.09	13.082	38242.09722	845.578384		38242.09388	77.90643195	1.66667	0.00674168	77.89968027		179.9482845	54.84823712	-0.516322919
43	9/12/2004 3:15	77.921	38242.14	13.083	38242.13889	796.541189		38242.13554	77.90413592	1.70833	0.006910195	77.89722572		179.9425914	54.84650187	-0.518058177
44	9/12/2004 4:15	77.921	38242.18	13.085	38242.18056	567.579951		38242.17721	77.90364649	1.75	0.00707875	77.89656774		179.9408405	54.84596818	-0.518591866
45	9/12/2004 5:15	77.921	38242.22	13.088	38242.22222	236.947441		38242.21888	77.90412898	1.79167	0.007247305	77.89688167		179.9417967	54.84625962	-0.518300419
46	9/12/2004 6:15	77.911	38242.26	13.093	38242.26389	-95.108959		38242.26054	77.89689928	1.83333	0.00741582	77.88948346		179.9247068	54.84105063	-0.523509411
47	9/12/2004 7:15	77.893	38242.3	13.095	38242.30556	-332.312681		38242.30221	77.88137968	1.875	0.007584375	77.8737153		179.8884672	54.83000479	-0.534555254
48	9/12/2004 8:15	77.875	38242.34	13.1	38242.34722	-407.080471		38242.34388	77.86784346	1.91667	0.00775293	77.86009053		179.8568091	54.82035542	-0.54420462
49	9/12/2004 9:15	77.875	38242.39	13.103	38242.38889	-298.046906		38242.38554	77.87156817	1.95833	0.007921445	77.86364673		179.8650239	54.8228593	-0.541700746
50	9/12/2004 10:15	77.865	38242.43	13.094	38242.43056	-36.066337		38242.42721	77.85811423	2	0.00809	77.85002423		179.833556	54.81326786	-0.551292183
51	9/12/2004 11:15	77.875	38242.46	13.084	38242.47222	303.010497		38242.46888	77.86121306	2.04167	0.008258555	77.85295451		179.8403249	54.81533103	-0.54922901
52	9/12/2004 12:15	77.884	38242.51	13.071	38242.51389	617.3803		38242.51054	77.86072194	2.08333	0.00842707	77.85229487		179.8388012	54.81486659	-0.549693449
53	9/12/2004 13:15	77.911	38242.55	13.057	38242.55556	805.797061		38242.55221	77.87587135	2.125	0.008595625	77.86727572		179.8734069	54.82541443	-0.539145612
54	9/12/2004 14:15	77.93	38242.59	13.048	38242.59722	795.082608		38242.59388	77.88440601	2.16667	0.00876418	77.87564183		179.8927326	54.8313049	-0.533255137
55	9/12/2004 15:15	77.948	38242.64	13.038	38242.63889	561.491283		38242.63554	77.89233069	2.20833	0.008932695	77.883398		179.9106494	54.83676593	-0.527794112
56	9/12/2004 16:15	77.957	38242.68	13.033	38242.68056	139.885318		38242.67721	77.89444143	2.25	0.00910125	77.88534018		179.9151358	54.8381334	-0.526426643
57	9/12/2004 17:15	77.966	38242.72	13.034	38242.72222	-382.474089		38242.71888	77.90195683	2.29167	0.009269805	77.89268702		179.932107	54.84330622	-0.521253821
58	9/12/2004 18:15	77.957	38242.76	13.035	38242.76389	-886.67256		38242.76054	77.89416966	2.33333	0.00943832	77.88473134		179.9137294	54.83770472	-0.526855325
59	9/12/2004 19:15	77.957	38242.8	13.043	38242.80556	-1252.387533		38242.80221	77.90087525	2.375	0.009606875	77.89126637		179.9288299	54.84230736	-0.522252677
60	9/12/2004 20:15	77.938	38242.84	13.051	38242.84722	-1389.556977		38242.84388	77.89127005	2.41667	0.00977543	77.88149462		179.9062526	54.83542578	-0.529134261

Information Only

SNL-3 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	Elapsed Day	Detrend Variable	[illegible]		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38240.42721	77.847	38240.44	13.127	38240.43056	330.257911		38240.42721	77.847	=H2-H2	=J2*0.004045	[illegible]		=L2*2.31	=N2*0.3048	=O2-O3505
3	38240.46888	77.856	38240.47	13.117	38240.47222	495.081683		38240.46888	77.847	=H3-H2	=J3*0.004045	[illegible]		=L3*2.31	=N3*0.3048	=O3-O3505
4	38240.51054	77.875	38240.51	13.107	38240.51389	566.469265		38240.51054	77.847	=H4-H2	=J4*0.004045	[illegible]		=L4*2.31	=N4*0.3048	=O4-O3505
5	38240.55221	77.883	38240.55	13.096	38240.55556	493.243583		38240.55221	77.847	=H5-H2	=J5*0.004045	[illegible]		=L5*2.31	=N5*0.3048	=O5-O3505
6	38240.59388	77.901	38240.59	13.09	38240.59722	260.296272		38240.59388	77.847	=H6-H2	=J6*0.004045	[illegible]		=L6*2.31	=N6*0.3048	=O6-O3505
7	38240.63554	77.911	38240.64	13.085	38240.63889	-104.069398		38240.63554	77.847	=H7-H2	=J7*0.004045	[illegible]		=L7*2.31	=N7*0.3048	=O7-O3505
8	38240.67721	77.921	38240.68	13.084	38240.68056	-532.49157		38240.67721	77.847	=H8-H2	=J8*0.004045	[illegible]		=L8*2.31	=N8*0.3048	=O8-O3505
9	38240.71888	77.921	38240.72	13.087	38240.72222	-934.041721		38240.71888	77.847	=H9-H2	=J9*0.004045	[illegible]		=L9*2.31	=N9*0.3048	=O9-O3505
10	38240.76054	77.921	38240.76	13.09	38240.76389	-1216.987877		38240.76054	77.847	=H10-H2	=J10*0.004045	[illegible]		=L10*2.31	=N10*0.3048	=O10-O3505
11	38240.80221	77.901	38240.8	13.098	38240.80556	-1312.650231		38240.80221	77.847	=H11-H2	=J11*0.004045	[illegible]		=L11*2.31	=N11*0.3048	=O11-O3505
12	38240.84388	77.893	38240.84	13.105	38240.84722	-1193.682359		38240.84388	77.847	=H12-H2	=J12*0.004045	[illegible]		=L12*2.31	=N12*0.3048	=O12-O3505
13	38240.88554	77.893	38240.89	13.105	38240.88889	-881.663254		38240.88554	77.847	=H13-H2	=J13*0.004045	[illegible]		=L13*2.31	=N13*0.3048	=O13-O3505
14	38240.92721	77.893	38240.93	13.104	38240.93056	-441.972954		38240.92721	77.847	=H14-H2	=J14*0.004045	[illegible]		=L14*2.31	=N14*0.3048	=O14-O3505
15	38240.96888	77.884	38240.97	13.102	38240.97222	32.481316		38240.96888	77.8839022069143	=H15-H2	=J15*0.004045	[illegible]		=L15*2.31	=N15*0.3048	=O15-O3505
16	38241.01054	77.884	38241.01	13.101	38241.01389	444.156463		38241.01054	77.8828068690387	=H16-H2	=J16*0.004045	[illegible]		=L16*2.31	=N16*0.3048	=O16-O3505
17	38241.05221	77.902	38241.05	13.099	38241.05556	714.330847		38241.05221	77.8982274325449	=H17-H2	=J17*0.004045	[illegible]		=L17*2.31	=N17*0.3048	=O17-O3505
18	38241.09388	77.902	38241.09	13.101	38241.09722	801.262822		38241.09388	77.8969881950826	=H18-H2	=J18*0.004045	[illegible]		=L18*2.31	=N18*0.3048	=O18-O3505
19	38241.13554	77.911	38241.14	13.093	38241.13889	708.810835		38241.13554	77.8999414485587	=H19-H2	=J19*0.004045	[illegible]		=L19*2.31	=N19*0.3048	=O19-O3505
20	38241.17721	77.919	38241.18	13.09	38241.18056	483.757121		38241.17721	77.9036428485302	=H20-H2	=J20*0.004045	[illegible]		=L20*2.31	=N20*0.3048	=O20-O3505
21	38241.21888	77.91	38241.22	13.102	38241.22222	202.76575		38241.21888	77.8997527702264	=H21-H2	=J21*0.004045	[illegible]		=L21*2.31	=N21*0.3048	=O21-O3505
22	38241.26054	77.893	38241.26	13.109	38241.26389	-47.755981		38241.26054	77.8884252229404	=H22-H2	=J22*0.004045	[illegible]		=L22*2.31	=N22*0.3048	=O22-O3505
23	38241.30221	77.875	38241.3	13.114	38241.30556	-194.050003		38241.30221	77.8756498052636	=H23-H2	=J23*0.004045	[illegible]		=L23*2.31	=N23*0.3048	=O23-O3505
24	38241.34388	77.856	38241.34	13.118	38241.34722	-194.273513		38241.34388	77.8618986317921	=H24-H2	=J24*0.004045	[illegible]		=L24*2.31	=N24*0.3048	=O24-O3505
25	38241.38554	77.847	38241.39	13.119	38241.38889	-49.877955		38241.38554	77.8555364137886	=H25-H2	=J25*0.004045	[illegible]		=L25*2.31	=N25*0.3048	=O25-O3505
26	38241.42721	77.847	38241.43	13.117	38241.43056	193.948592		38241.42721	77.855988078916	=H26-H2	=J26*0.004045	[illegible]		=L26*2.31	=N26*0.3048	=O26-O3505
27	38241.46888	77.856	38241.47	13.105	38241.47222	459.307597		38241.46888	77.8587272618939	=H27-H2	=J27*0.004045	[illegible]		=L27*2.31	=N27*0.3048	=O27-O3505
28	38241.51054	77.875	38241.51	13.094	38241.51389	655.788842		38241.51054	77.8691663584644	=H28-H2	=J28*0.004045	[illegible]		=L28*2.31	=N28*0.3048	=O28-O3505
29	38241.55221	77.893	38241.55	13.086	38241.55556	705.048385		38241.55221	77.8788235770111	=H29-H2	=J29*0.004045	[illegible]		=L29*2.31	=N29*0.3048	=O29-O3505
30	38241.59388	77.911	38241.59	13.075	38241.59722	563.472386		38241.59388	77.8862603432771	=H30-H2	=J30*0.004045	[illegible]		=L30*2.31	=N30*0.3048	=O30-O3505
31	38241.63554	77.93	38241.64	13.065	38241.63889	236.661813		38241.63554	77.8939631822517	=H31-H2	=J31*0.004045	[illegible]		=L31*2.31	=N31*0.3048	=O31-O3505
32	38241.67721	77.939	38241.68	13.062	38241.68056	-218.759606		38241.67721	77.8968920652589	=H32-H2	=J32*0.004045	[illegible]		=L32*2.31	=N32*0.3048	=O32-O3505
33	38241.71888	77.939	38241.72	13.063	38241.72222	-707.274046		38241.71888	77.8961877969358	=H33-H2	=J33*0.004045	[illegible]		=L33*2.31	=N33*0.3048	=O33-O3505
34	38241.76054	77.939	38241.76	13.065	38241.76389	-1117.879057		38241.76054	77.8979146843731	=H34-H2	=J34*0.004045	[illegible]		=L34*2.31	=N34*0.3048	=O34-O3505
35	38241.80221	77.93	38241.8	13.07	38241.80556	-1352.689669		38241.80221	77.8939036714022	=H35-H2	=J35*0.004045	[illegible]		=L35*2.31	=N35*0.3048	=O35-O3505
36	38241.84388	77.921	38241.84	13.079	38241.84722	-1352.857696		38241.84388	77.8937399417264	=H36-H2	=J36*0.004045	[illegible]		=L36*2.31	=N36*0.3048	=O36-O3505
37	38241.88554	77.901	38241.89	13.084	38241.88889	-1114.494018		38241.88554	77.8815130813462	=H37-H2	=J37*0.004045	[illegible]		=L37*2.31	=N37*0.3048	=O37-O3505
38	38241.92721	77.893	38241.93	13.088	38241.93056	-690.099025		38241.92721	77.8799060125571	=H38-H2	=J38*0.004045	[illegible]		=L38*2.31	=N38*0.3048	=O38-O3505
39	38241.96888	77.893	38241.97	13.084	38241.97222	-175.184299		38241.96888	77.860507602063	=H39-H2	=J39*0.004045	[illegible]		=L39*2.31	=N39*0.3048	=O39-O3505
40	38242.01054	77.902	38242.02	13.085	38242.01389	316.062502		38242.01054	77.8905838105388	=H40-H2	=J40*0.004045	[illegible]		=L40*2.31	=N40*0.3048	=O40-O3505
41	38242.05221	77.911	38242.05	13.086	38242.05556	679.352143		38242.05221	77.9000244519862	=H41-H2	=J41*0.004045	[illegible]		=L41*2.31	=N41*0.3048	=O41-O3505
42	38242.09388	77.921	38242.09	13.082	38242.09722	845.578384		38242.09388	77.9064319509188	=H42-H2	=J42*0.004045	[illegible]		=L42*2.31	=N42*0.3048	=O42-O3505
43	38242.13554	77.921	38242.14	13.083	38242.13889	796.541189		38242.13554	77.9041359184234	=H43-H2	=J43*0.004045	[illegible]		=L43*2.31	=N43*0.3048	=O43-O3505
44	38242.17721	77.921	38242.18	13.085	38242.18056	567.579951		38242.17721	77.9035464863861	=H44-H2	=J44*0.004045	[illegible]		=L44*2.31	=N44*0.3048	=O44-O3505
45	38242.21888	77.921	38242.22	13.088	38242.22222	236.947441		38242.21888	77.9041289769517	=H45-H2	=J45*0.004045	[illegible]		=L45*2.31	=N45*0.3048	=O45-O3505
46	38242.26054	77.911	38242.26	13.093	38242.26389	-95.108959		38242.26054	77.8968992807052	=H46-H2	=J46*0.004045	[illegible]		=L46*2.31	=N46*0.3048	=O46-O3505
47	38242.30221	77.893	38242.3	13.095	38242.30556	-332.312681		38242.30221	77.8813798793051	=H47-H2	=J47*0.004045	[illegible]		=L47*2.31	=N47*0.3048	=O47-O3505
48	38242.34388	77.875	38242.34	13.1	38242.34722	-407.080471		38242.34388	77.867843462011	=H48-H2	=J48*0.004045	[illegible]		=L48*2.31	=N48*0.3048	=O48-O3505
49	38242.38554	77.875	38242.39	13.103	38242.38889	-298.046906		38242.38554	77.8715681709574	=H49-H2	=J49*0.004045	[illegible]		=L49*2.31	=N49*0.3048	=O49-O3505
50	38242.42721	77.865	38242.43	13.094	38242.43056	-36.066337		38242.42721	77.8581142281799	=H50-H2	=J50*0.004045	[illegible]		=L50*2.31	=N50*0.3048	=O50-O3505
51	38242.46888	77.875	38242.46	13.084	38242.47222	303.010497		38242.46888	77.8612130807511	=H51-H2	=J51*0.004045	[illegible]		=L51*2.31	=N51*0.3048	=O51-O3505
52	38242.51054	77.884	38242.51	13.071	38242.51389	617.3803		38242.51054	77.8607219439208	=H52-H2	=J52*0.004045	[illegible]		=L52*2.31	=N52*0.3048	=O52-O3505
53	38242.55221	77.911	38242.55	13.057	38242.55556	805.797061		38242.55221	77.8758713489444	=H53-H2	=J53*0.004045	[illegible]		=L53*2.31	=N53*0.3048	=O53-O3505
54	38242.59388	77.93	38242.59	13.048	38242.59722	795.082608		38242.59388	77.8844060102614	=H54-H2	=J54*0.004045	[illegible]		=L54*2.31	=N54*0.3048	=O54-O3505
55	38242.63554	77.948	38242.64	13.038	38242.63889	561.491283		38242.63554	77.8923306941288	=H55-H2	=J55*0.004045	[illegible]		=L55*2.31	=N55*0.3048	=O55-O3505
56	38242.67721	77.957	38242.68	13.033	38242.68056	139.885318		38242.67721	77.8944414339747	=H56-H2	=J56*0.004045	[illegible]		=L56*2.31	=N56*0.3048	=O56-O3505
57	38242.71888	77.966	38242.72	13.034	38242.72222	-382.474089		38242.71888	77.9019568283005	=H57-H2	=J57*0.004045	[illegible]		=L57*2.31	=N57*0.3048	=O57-O3505
58	38242.76054	77.957	38242.76	13.035	38242.76389	-886.67256		38242.76054	77.8941696558209	=H58-H2	=J58*0.004045	[illegible]		=L58*2.31	=N58*0.3048	=O58-O3505
59	38242.80221	77.957	38242.8	13.043	38242.80556	-1252.387533		38242.80221	77.9008752462644	=H59-H2	=J59*0.004045	[illegible]		=L59*2.31	=N59*0.3048	=O59-O3505
60	38242.84388	77.938	38242.84	13.051	38242.84722	-1389.556977		38242.84388	77.8912700457178	=H60-H2	=J60*0.004045	[illegible]		=L60*2.31	=N60*0.3048	=O60-O3505

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	Filter	BAROCorrect-Time	Corrected-Pressure	Corrected-Pressure Shifted	ElapsedDays	DetrendVariable	[redacted]	Freshwater (ft of H20)	Meters of H20	Change in Meters
2	9/10/04 13:41	59.54	38240.56654	12.9	38240.57292	96.981711	1	38240.57064	59.54	59.54	0	0	[redacted]	137.5374	41.92139952	-0.680056248
3	9/10/04 14:41	59.537	38240.60821	12.892	38240.61458	-25.964714	1	38240.6123	59.54	59.54	0.04166	0.00017918	[redacted]	137.5369861	41.92127336	-0.680182406
4	9/10/04 15:41	59.548	38240.64987	12.888	38240.65625	-37.208988	1	38240.65397	59.54	59.54	0.08333	0.000358402	[redacted]	137.5365721	41.92114717	-0.680308595
5	9/10/04 16:41	59.553	38240.69154	12.89	38240.69792	62.722858	1	38240.69564	59.54	59.54	0.125	0.000537625	[redacted]	137.5361581	41.92102098	-0.680434783
6	9/10/04 17:41	59.553	38240.73321	12.892	38240.73958	237.500072	1	38240.7373	59.54	59.54	0.16666	0.000716805	[redacted]	137.5357442	41.92089483	-0.680560942
7	9/10/04 18:41	59.545	38240.77487	12.897	38240.78125	423.851351	1	38240.77897	59.54	59.54	0.20833	0.000896027	[redacted]	137.5353302	41.92076864	-0.68068713
8	9/10/04 19:41	59.534	38240.81654	12.907	38240.82292	548.295779	1	38240.82064	59.54	59.54	0.25	0.00107525	[redacted]	137.5349162	41.92064245	-0.680813319
9	9/10/04 20:41	59.521	38240.85821	12.91	38240.86458	547.742515	1	38240.8623	59.54	59.54	0.29166	0.00125443	[redacted]	137.5345023	41.92051629	-0.680939477
10	9/10/04 21:41	59.519	38240.89987	12.913	38240.90625	388.555315	1	38240.90397	59.54	59.54	0.33333	0.001433652	[redacted]	137.5340883	41.9203901	-0.681065665
11	9/10/04 22:41	59.519	38240.94154	12.908	38240.94792	78.644254	1	38240.94564	59.54	59.54	0.375	0.001612875	[redacted]	137.5336743	41.92026391	-0.681191854
12	9/10/04 23:41	59.519	38240.98321	12.906	38240.98958	-331.303846	1	38240.9873	59.51672109	59.51672109	0.41666	0.001792055	[redacted]	137.4794861	41.90374735	-0.697708417
13	9/11/04 0:41	59.524	38241.02487	12.905	38241.03125	-758.479016	1	38241.02897	59.51691215	59.51691215	0.45833	0.001971277	[redacted]	137.4795134	41.90375569	-0.697700082
14	9/11/04 1:41	59.529	38241.06654	12.903	38241.07292	-1108.085421	1	38241.07064	59.51527067	59.51527067	0.5	0.0021505	[redacted]	137.4753076	41.90247375	-0.698982016
15	9/11/04 2:41	59.537	38241.10821	12.903	38241.11458	-1297.644654	1	38241.1123	59.5179706	59.5179706	0.54166	0.00232968	[redacted]	137.4811305	41.90424858	-0.697207184
16	9/11/04 3:41	59.545	38241.14987	12.896	38241.15625	-1278.73589	1	38241.15397	59.51994331	59.51994331	0.58333	0.002508902	[redacted]	137.4852735	41.90551136	-0.69594441
17	9/11/04 4:41	59.543	38241.19154	12.898	38241.19792	-1050.07189	1	38241.19564	59.51923875	59.51923875	0.625	0.002688125	[redacted]	137.483232	41.9048891	-0.696566668
18	9/11/04 5:41	59.532	38241.23321	12.906	38241.23958	-658.30095	1	38241.2373	59.51747227	59.51747227	0.66666	0.002867305	[redacted]	137.4787375	41.90351918	-0.697936586
19	9/11/04 6:41	59.516	38241.27487	12.917	38241.28125	-186.446615	1	38241.27897	59.51681922	59.51681922	0.70833	0.003046527	[redacted]	137.4768149	41.90293319	-0.698522582
20	9/11/04 7:41	59.503	38241.31654	12.92	38241.32292	266.70102	1	38241.32064	59.51771565	59.51771565	0.75	0.00322575	[redacted]	137.4784717	41.90343816	-0.698017605
21	9/11/04 8:41	59.489	38241.35821	12.922	38241.36458	610.660303	1	38241.3623	59.51590402	59.51590402	0.79166	0.00340493	[redacted]	137.4738729	41.90203646	-0.699419309
22	9/11/04 9:41	59.479	38241.39987	12.926	38241.40625	784.615632	1	38241.40397	59.5157907	59.5157907	0.83333	0.003584152	[redacted]	137.4731971	41.90183048	-0.699625288
23	9/11/04 10:41	59.482	38241.44154	12.919	38241.44792	770.89688	1	38241.44564	59.51839957	59.51839957	0.875	0.003763375	[redacted]	137.4788096	41.90354117	-0.697914597
24	9/11/04 11:41	59.489	38241.48321	12.906	38241.48958	597.595803	1	38241.4873	59.51474844	59.51474844	0.91666	0.003942555	[redacted]	137.4699616	41.90084429	-0.700611476
25	9/11/04 12:41	59.508	38241.52487	12.896	38241.53125	330.015525	1	38241.52897	59.51835037	59.51835037	0.95833	0.004121777	[redacted]	137.4778681	41.90325418	-0.698201586
26	9/11/04 13:41	59.527	38241.56654	12.886	38241.57292	53.220322	1	38241.57064	59.51898401	59.51898401	1	0.004301	[redacted]	137.4789178	41.90357413	-0.697881636
27	9/11/04 14:41	59.545	38241.60821	12.877	38241.61458	-150.068852	1	38241.6123	59.51823139	59.51823139	1.04166	0.00448018	[redacted]	137.4767653	41.90291806	-0.698537706
28	9/11/04 15:41	59.564	38241.64987	12.87	38241.65625	-220.940502	1	38241.65397	59.52137206	59.52137206	1.08333	0.004659402	[redacted]	137.4836062	41.90500318	-0.696452583
29	9/11/04 16:41	59.572	38241.69154	12.869	38241.69792	-139.906286	1	38241.69564	59.52088744	59.52088744	1.125	0.004838625	[redacted]	137.4820728	41.90453578	-0.696919988
30	9/11/04 17:41	59.572	38241.73321	12.87	38241.73958	67.321221	1	38241.7373	59.51928992	59.51928992	1.16666	0.005017805	[redacted]	137.4779686	41.90328483	-0.698170943
31	9/11/04 18:41	59.567	38241.77487	12.872	38241.78125	335.668782	1	38241.77897	59.51845534	59.51845534	1.20833	0.005197027	[redacted]	137.4756267	41.90257102	-0.698884752
32	9/11/04 19:41	59.553	38241.81654	12.879	38241.82292	577.174661	1	38241.82064	59.51490772	59.51490772	1.25	0.00537625	[redacted]	137.4670177	41.89994699	-0.701508775
33	9/11/04 20:41	59.54	38241.85821	12.887	38241.86458	704.359252	1	38241.8623	59.51523256	59.51523256	1.29166	0.00555543	[redacted]	137.4673542	41.90004955	-0.701406216
34	9/11/04 21:41	59.532	38241.89987	12.891	38241.90625	854.709753	1	38241.90397	59.51816783	59.51816783	1.33333	0.005734652	[redacted]	137.4737206	41.90199005	-0.69946572
35	9/11/04 22:41	59.524	38241.94154	12.89	38241.94792	409.75879	1	38241.94564	59.51530852	59.51530852	1.375	0.005913875	[redacted]	137.4667016	41.89985086	-0.701605108
36	9/11/04 23:41	59.524	38241.98321	12.889	38241.98958	3.20125	1	38241.9873	59.51562256	59.51562256	1.41666	0.006093055	[redacted]	137.4670131	41.89994561	-0.701510161
37	9/12/04 0:41	59.532	38242.02487	12.887	38242.03125	-484.872674	1	38242.02897	59.51904731	59.51904731	1.45833	0.006272277	[redacted]	137.4745103	41.90223075	-0.699225019
38	9/12/04 1:41	59.54	38242.06654	12.886	38242.07292	-946.80398	1	38242.07064	59.51967307	59.51967307	1.5	0.0064515	[redacted]	137.4755418	41.90254515	-0.698910616
39	9/12/04 2:41	59.548	38242.10821	12.886	38242.11458	-1274.596472	1	38242.1123	59.51997702	59.51997702	1.54166	0.00663068	[redacted]	137.47583	41.902633	-0.698822772
40	9/12/04 3:41	59.553	38242.14987	12.887	38242.15625	-1388.208917	1	38242.15397	59.51968016	59.51968016	1.58333	0.006809902	[redacted]	137.4747303	41.90229779	-0.699157975
41	9/12/04 4:41	59.558	38242.19154	12.888	38242.19792	-1256.989103	1	38242.19564	59.52137198	59.52137198	1.625	0.006989125	[redacted]	137.4782244	41.90336279	-0.698092974
42	9/12/04 5:41	59.548	38242.23321	12.893	38242.23958	-908.178036	1	38242.2373	59.51899727	59.51899727	1.66666	0.007168305	[redacted]	137.4723249	41.90156463	-0.699891135
43	9/12/04 6:41	59.54	38242.27487	12.897	38242.28125	-420.131001	1	38242.27897	59.52147785	59.52147785	1.70833	0.007347527	[redacted]	137.477641	41.90318499	-0.698270778
44	9/12/04 7:41	59.527	38242.31654	12.901	38242.32292	97.725198	1	38242.32064	59.52234665	59.52234665	1.75	0.00752875	[redacted]	137.479234	41.90367052	-0.697785251
45	9/12/04 8:41	59.505	38242.35821	12.906	38242.36458	532.557976	1	38242.3623	59.51565662	59.51565662	1.79166	0.00770593	[redacted]	137.4633661	41.89883398	-0.702621784
46	9/12/04 9:41	59.497	38242.39987	12.905	38242.40625	795.957864	1	38242.40397	59.51832875	59.51832875	1.83333	0.007885152	[redacted]	137.4691247	41.90058921	-0.700866553
47	9/12/04 10:41	59.497	38242.44154	12.895	38242.44792	844.813841	1	38242.44564	59.5193234	59.5193234	1.875	0.008064375	[redacted]	137.4710084	41.90116335	-0.700292421
48	9/12/04 11:41	59.505	38242.48321	12.883	38242.48958	690.282027	1	38242.4873	59.51982808	59.51982808	1.91666	0.008243555	[redacted]	137.4717603	41.90139253	-0.700063242
49	9/12/04 12:41	59.521	38242.52487	12.869	38242.53125	393.094443	1	38242.52897	59.52056146	59.52056146	1.95833	0.008422777	[redacted]	137.4730404	41.9017827	-0.699673065
50	9/12/04 13:41	59.543	38242.56654	12.856	38242.57292	46.801473	1	38242.57064	59.52251086	59.52251086	2	0.008602	[redacted]	137.4771295	41.90302906	-0.698426704
51	9/12/04 14:41	59.561	38242.60821	12.849	38242.61458	-246.708441	1	38242.6123	59.52117277	59.52117277	2.04166	0.00878118	[redacted]	137.4736246	41.90196077	-0.699495
52	9/12/04 15:41	59.577	38242.64987	12.842	38242.65625	-403.413769	1	38242.65397	59.51965565	59.51965565	2.08333	0.008960402	[redacted]	137.469706	41.90076639	-0.700689375
53	9/12/04 16:41	59.59	38242.69154	12.839	38242.69792	-378.782158	1	38242.69564	59.52100122	59.52100122	2.125	0.009139625	[redacted]	137.4724003	41.90158761	-0.699868159
54	9/12/04 17:41	59.593	38242.73321	12.841	38242.73958	-179.560276	1	38242.7373	59.52067526	59.52067526	2.16666	0.009318805	[redacted]	137.4712334	41.90123194	-0.700223827
55	9/12/04 18:41	59.59	38242.77487	12.843	38242.78125	137.296568	1	38242.77897	59.52087069	59.52087069	2.20833	0.009498027	[redacted]	137.4712709	41.90124336	-0.70021241
56	9/12/04 19:41	59.58	38242.81654	12.851	38242.82292	478.615323	1	38242.82064	59.52183823	59.52183823	2.25	0.00967725	[redacted]	137.4730919	41.9017984	-0.699657369
57	9/12/04 20:41	59.561	38242.85821	12.856	38242.86458	738.856055	1	38242.8623	59.51584569	59.51584569	2.29166	0.00985643	[redacted]	137.4588352	41.89745297	-0.704002803
58	9/12/04 21:41	59.553	38242.89987	12.858	38242.90625	828.168727	1	38242.90397	59.51934703	59.51934703	2.33333	0.010035652	[redacted]	137.4665093	41.89979203	-0.701663738
59	9/12/04 22:41	59.545	38242.94154	12.859	38242.94792	697.587765	1	38242.94564	59.5193261	59.5193261	2.375	0.010214875	[redacted]	137.4660469	41.8996511	-0.701804664
60	9/12/04 23:41	59.551	38242.98321	12.854	38242.98958	354.547986	1	38242.9873	59.52575192	59.52575192	2.41666	0.010394055	[redacted]	137.4804767	41.90404929	-0.697406476

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	Filter	BAROCorrect-Time	Corrected-Pressure	Corrected-Pressure Shifted	ElapsedDays	DetrendVariable	[illegible]	Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38240.57064	59.54	38240.56654	12.9	38240.57292	96.981711	=IF(MINUTE(A2)=41,1,0)	38240.57064	59.54	59.54	=H2-H2	=K2*0.004301	[illegible]	=M2*2.31	=N2*0.3048	=O2-O3457
3	38240.6123	59.537	38240.60821	12.892	38240.61458	-25.964714	=IF(MINUTE(A3)=41,1,0)	38240.6123	59.54	59.54	=H3-H2	=K3*0.004301	[illegible]	=M3*2.31	=N3*0.3048	=O3-O3457
4	38240.65397	59.548	38240.64987	12.888	38240.65625	-37.208988	=IF(MINUTE(A4)=41,1,0)	38240.65397	59.54	59.54	=H4-H2	=K4*0.004301	[illegible]	=M4*2.31	=N4*0.3048	=O4-O3457
5	38240.69564	59.553	38240.69154	12.89	38240.69792	62.722858	=IF(MINUTE(A5)=41,1,0)	38240.69564	59.54	59.54	=H5-H2	=K5*0.004301	[illegible]	=M5*2.31	=N5*0.3048	=O5-O3457
6	38240.7373	59.553	38240.73321	12.892	38240.73958	237.500072	=IF(MINUTE(A6)=41,1,0)	38240.7373	59.54	59.54	=H6-H2	=K6*0.004301	[illegible]	=M6*2.31	=N6*0.3048	=O6-O3457
7	38240.77897	59.545	38240.77487	12.897	38240.78125	423.851351	=IF(MINUTE(A7)=41,1,0)	38240.77897	59.54	59.54	=H7-H2	=K7*0.004301	[illegible]	=M7*2.31	=N7*0.3048	=O7-O3457
8	38240.82064	59.534	38240.81654	12.907	38240.82292	548.295779	=IF(MINUTE(A8)=41,1,0)	38240.82064	59.54	59.54	=H8-H2	=K8*0.004301	[illegible]	=M8*2.31	=N8*0.3048	=O8-O3457
9	38240.8623	59.521	38240.85821	12.91	38240.86458	547.742515	=IF(MINUTE(A9)=41,1,0)	38240.8623	59.54	59.54	=H9-H2	=K9*0.004301	[illegible]	=M9*2.31	=N9*0.3048	=O9-O3457
10	38240.90397	59.519	38240.89987	12.913	38240.90625	388.555315	=IF(MINUTE(A10)=41,1,0)	38240.90397	59.54	59.54	=H10-H2	=K10*0.004301	[illegible]	=M10*2.31	=N10*0.3048	=O10-O3457
11	38240.94564	59.519	38240.94154	12.908	38240.94792	78.644254	=IF(MINUTE(A11)=41,1,0)	38240.94564	59.54	59.54	=H11-H2	=K11*0.004301	[illegible]	=M11*2.31	=N11*0.3048	=O11-O3457
12	38240.9873	59.519	38240.98321	12.906	38240.98958	-331.303846	=IF(MINUTE(A12)=41,1,0)	38240.9873	59.5167210852992	59.5167210852992	=H12-H2	=K12*0.004301	[illegible]	=M12*2.31	=N12*0.3048	=O12-O3457
13	38241.02897	59.524	38241.02487	12.905	38241.03125	-758.479016	=IF(MINUTE(A13)=41,1,0)	38241.02897	59.5169121452931	59.5169121452931	=H13-H2	=K13*0.004301	[illegible]	=M13*2.31	=N13*0.3048	=O13-O3457
14	38241.07064	59.529	38241.06654	12.903	38241.07292	-1108.085421	=IF(MINUTE(A14)=41,1,0)	38241.07064	59.5152706671127	59.5152706671127	=H14-H2	=K14*0.004301	[illegible]	=M14*2.31	=N14*0.3048	=O14-O3457
15	38241.1123	59.537	38241.10821	12.903	38241.11458	-1297.644654	=IF(MINUTE(A15)=41,1,0)	38241.1123	59.5179706001351	59.5179706001351	=H15-H2	=K15*0.004301	[illegible]	=M15*2.31	=N15*0.3048	=O15-O3457
16	38241.15397	59.545	38241.14987	12.896	38241.15625	-1278.73589	=IF(MINUTE(A16)=41,1,0)	38241.15397	59.5199433116253	59.5199433116253	=H16-H2	=K16*0.004301	[illegible]	=M16*2.31	=N16*0.3048	=O16-O3457
17	38241.19564	59.543	38241.19154	12.898	38241.19792	-1050.07189	=IF(MINUTE(A17)=41,1,0)	38241.19564	59.5192387547734	59.5192387547734	=H17-H2	=K17*0.004301	[illegible]	=M17*2.31	=N17*0.3048	=O17-O3457
18	38241.2373	59.532	38241.23321	12.906	38241.23958	-658.30095	=IF(MINUTE(A18)=41,1,0)	38241.2373	59.5174722711245	59.5174722711245	=H18-H2	=K18*0.004301	[illegible]	=M18*2.31	=N18*0.3048	=O18-O3457
19	38241.27897	59.516	38241.27487	12.917	38241.28125	-186.446615	=IF(MINUTE(A19)=41,1,0)	38241.27897	59.5168192176034	59.5168192176034	=H19-H2	=K19*0.004301	[illegible]	=M19*2.31	=N19*0.3048	=O19-O3457
20	38241.32064	59.503	38241.31654	12.92	38241.32292	266.70102	=IF(MINUTE(A20)=41,1,0)	38241.32064	59.5177156481799	59.5177156481799	=H20-H2	=K20*0.004301	[illegible]	=M20*2.31	=N20*0.3048	=O20-O3457
21	38241.3623	59.489	38241.35821	12.922	38241.36458	610.660303	=IF(MINUTE(A21)=41,1,0)	38241.3623	59.5159040198904	59.5159040198904	=H21-H2	=K21*0.004301	[illegible]	=M21*2.31	=N21*0.3048	=O21-O3457
22	38241.40397	59.479	38241.39987	12.926	38241.40625	784.615632	=IF(MINUTE(A22)=41,1,0)	38241.40397	59.515790695136	59.515790695136	=H22-H2	=K22*0.004301	[illegible]	=M22*2.31	=N22*0.3048	=O22-O3457
23	38241.44564	59.482	38241.44154	12.919	38241.44792	770.89668	=IF(MINUTE(A23)=41,1,0)	38241.44564	59.518399571953	59.518399571953	=H23-H2	=K23*0.004301	[illegible]	=M23*2.31	=N23*0.3048	=O23-O3457
24	38241.4873	59.489	38241.48321	12.906	38241.48958	597.595803	=IF(MINUTE(A24)=41,1,0)	38241.4873	59.5147484367065	59.5147484367065	=H24-H2	=K24*0.004301	[illegible]	=M24*2.31	=N24*0.3048	=O24-O3457
25	38241.52897	59.508	38241.52487	12.896	38241.53125	330.015525	=IF(MINUTE(A25)=41,1,0)	38241.52897	59.518350370637	59.518350370637	=H25-H2	=K25*0.004301	[illegible]	=M25*2.31	=N25*0.3048	=O25-O3457
26	38241.57064	59.527	38241.56654	12.886	38241.57292	53.220322	=IF(MINUTE(A26)=41,1,0)	38241.57064	59.5189840114417	59.5189840114417	=H26-H2	=K26*0.004301	[illegible]	=M26*2.31	=N26*0.3048	=O26-O3457
27	38241.6123	59.545	38241.60821	12.877	38241.61458	-150.068852	=IF(MINUTE(A27)=41,1,0)	38241.6123	59.5182313891135	59.5182313891135	=H27-H2	=K27*0.004301	[illegible]	=M27*2.31	=N27*0.3048	=O27-O3457
28	38241.65397	59.564	38241.64987	12.87	38241.65625	-220.940502	=IF(MINUTE(A28)=41,1,0)	38241.65397	59.5213720646203	59.5213720646203	=H28-H2	=K28*0.004301	[illegible]	=M28*2.31	=N28*0.3048	=O28-O3457
29	38241.69564	59.572	38241.69154	12.869	38241.69792	-139.906286	=IF(MINUTE(A29)=41,1,0)	38241.69564	59.5208874429981	59.5208674429981	=H29-H2	=K29*0.004301	[illegible]	=M29*2.31	=N29*0.3048	=O29-O3457
30	38241.7373	59.572	38241.73321	12.87	38241.73958	67.321221	=IF(MINUTE(A30)=41,1,0)	38241.7373	59.5192899201791	59.5192899201791	=H30-H2	=K30*0.004301	[illegible]	=M30*2.31	=N30*0.3048	=O30-O3457
31	38241.77897	59.567	38241.77487	12.872	38241.78125	335.666782	=IF(MINUTE(A31)=41,1,0)	38241.77897	59.518455335373	59.518455335373	=H31-H2	=K31*0.004301	[illegible]	=M31*2.31	=N31*0.3048	=O31-O3457
32	38241.82064	59.553	38241.81654	12.879	38241.82292	577.174661	=IF(MINUTE(A32)=41,1,0)	38241.82064	59.5149077196034	59.5149077196034	=H32-H2	=K32*0.004301	[illegible]	=M32*2.31	=N32*0.3048	=O32-O3457
33	38241.8623	59.54	38241.85821	12.887	38241.86458	704.359252	=IF(MINUTE(A33)=41,1,0)	38241.8623	59.5152325603356	59.5152325603356	=H33-H2	=K33*0.004301	[illegible]	=M33*2.31	=N33*0.3048	=O33-O3457
34	38241.90397	59.532	38241.89987	12.891	38241.90625	654.709753	=IF(MINUTE(A34)=41,1,0)	38241.90397	59.5181678255398	59.5181678255398	=H34-H2	=K34*0.004301	[illegible]	=M34*2.31	=N34*0.3048	=O34-O3457
35	38241.94564	59.524	38241.94154	12.89	38241.94792	409.75879	=IF(MINUTE(A35)=41,1,0)	38241.94564	59.5153085237777	59.5153085237777	=H35-H2	=K35*0.004301	[illegible]	=M35*2.31	=N35*0.3048	=O35-O3457
36	38241.9873	59.524	38241.98321	12.889	38241.98958	3.20125	=IF(MINUTE(A36)=41,1,0)	38241.9873	59.5156225554999	59.5156225554999	=H36-H2	=K36*0.004301	[illegible]	=M36*2.31	=N36*0.3048	=O36-O3457
37	38242.02897	59.532	38242.02487	12.887	38242.03125	-484.672674	=IF(MINUTE(A37)=41,1,0)	38242.02897	59.519047312638	59.519047312638	=H37-H2	=K37*0.004301	[illegible]	=M37*2.31	=N37*0.3048	=O37-O3457
38	38242.07064	59.54	38242.06654	12.886	38242.07292	-946.60396	=IF(MINUTE(A38)=41,1,0)	38242.07064	59.5196730740383	59.5196730740383	=H38-H2	=K38*0.004301	[illegible]	=M38*2.31	=N38*0.3048	=O38-O3457
39	38242.1123	59.548	38242.10821	12.886	38242.11458	-1274.596472	=IF(MINUTE(A39)=41,1,0)	38242.1123	59.5199770165639	59.5199770165639	=H39-H2	=K39*0.004301	[illegible]	=M39*2.31	=N39*0.3048	=O39-O3457
40	38242.15397	59.553	38242.14987	12.887	38242.15625	-1388.208917	=IF(MINUTE(A40)=41,1,0)	38242.15397	59.5196801585088	59.5196801585088	=H40-H2	=K40*0.004301	[illegible]	=M40*2.31	=N40*0.3048	=O40-O3457
41	38242.19564	59.556	38242.19154	12.888	38242.19792	-1256.989103	=IF(MINUTE(A41)=41,1,0)	38242.19564	59.521371977854	59.521371977854	=H41-H2	=K41*0.004301	[illegible]	=M41*2.31	=N41*0.3048	=O41-O3457
42	38242.2373	59.548	38242.23321	12.893	38242.23958	-908.178036	=IF(MINUTE(A42)=41,1,0)	38242.2373	59.518997271145	59.518997271145	=H42-H2	=K42*0.004301	[illegible]	=M42*2.31	=N42*0.3048	=O42-O3457
43	38242.27897	59.54	38242.27487	12.897	38242.28125	-420.131001	=IF(MINUTE(A43)=41,1,0)	38242.27897	59.5214778497295	59.5214778497295	=H43-H2	=K43*0.004301	[illegible]	=M43*2.31	=N43*0.3048	=O43-O3457
44	38242.32064	59.527	38242.31654	12.901	38242.32292	97.725198	=IF(MINUTE(A44)=41,1,0)	38242.32064	59.522348654382	59.522348654382	=H44-H2	=K44*0.004301	[illegible]	=M44*2.31	=N44*0.3048	=O44-O3457
45	38242.3623	59.505	38242.35821	12.906	38242.36458	532.557976	=IF(MINUTE(A45)=41,1,0)	38242.3623	59.5158586179944	59.5158586179944	=H45-H2	=K45*0.004301	[illegible]	=M45*2.31	=N45*0.3048	=O45-O3457
46	38242.40397	59.497	38242.39987	12.905	38242.40625	795.957864	=IF(MINUTE(A46)=41,1,0)	38242.40397	59.5183287542962	59.5183287542962	=H46-H2	=K46*0.004301	[illegible]	=M46*2.31	=N46*0.3048	=O46-O3457
47	38242.44564	59.497	38242.44154	12.895	38242.44792	844.813841	=IF(MINUTE(A47)=41,1,0)	38242.44564	59.5193234041611	59.5193234041611	=H47-H2	=K47*0.004301	[illegible]	=M47*2.31	=N47*0.3048	=O47-O3457
48	38242.4873	59.505	38242.48321	12.883	38242.48958	690.282027	=IF(MINUTE(A48)=41,1,0)	38242.4873	59.5198280803148	59.5198280803148	=H48-H2	=K48*0.004301	[illegible]	=M48*2.31	=N48*0.3048	=O48-O3457
49	38242.52897	59.521	38242.52487	12.869	38242.53125	393.094443	=IF(MINUTE(A49)=41,1,0)	38242.52897	59.5205614633655	59.5205614633655	=H49-H2	=K49*0.004301	[illegible]	=M49*2.31	=N49*0.3048	=O49-O3457
50	38242.57064	59.543	38242.56654	12.856	38242.57292	46.801473	=IF(MINUTE(A50)=41,1,0)	38242.57064	59.5225108632738	59.5225108632738	=H50-H2	=K50*0.004301	[illegible]	=M50*2.31	=N50*0.3048	=O50-O3457
51	38242.6123	59.561	38242.60821	12.849	38242.61458	-246.708441	=IF(MINUTE(A51)=41,1,0)	38242.6123	59.5211727672771	59.5211727672771	=H51-H2	=K51*0.004301	[illegible]	=M51*2.31	=N51*0.3048	=O51-O3457
52	38242.65397	59.577	38242.64987	12.842	38242.65625	-403.413769	=IF(MINUTE(A52)=41,1,0)	38242.65397	59.5196556464735	59.5196556464735	=H52-H2	=K52*0.004301	[illegible]	=M52*2.31	=N52*0.3048	=O52-O3457
53	38242.69564	59.59	38242.69154	12.839	38242.69792	-378.782158	=IF(MINUTE(A53)=41,1,0)	38242.69564	59.5210012225664	59.5210012225664	=H53-H2	=K53*0.004301	[illegible]	=M53*2.31	=N53*0.3048	=O53-O3457
54	38242.7373	59.593	38242.73321	12.841	38242.73958	-179.560276	=IF(MINUTE(A54)=41,1,0)	38242.7373	59.5206752562956	59.5206752562956	=H54-H2	=K54*0.004301	[illegible]	=M54*2.31	=N54*0.3048	=O54-O3457
55	38242.77897	59.59	38242.77487	12.843	38242.78125	137.296568	=IF(MINUTE(A55)=41,1,0)	38242.77897	59.5208706942008	59.5208706942008	=H55-H2	=K55*0.004301	[illegible]	=M55*2.31	=N55*0.3048	=O55-O3457
56	38242.82064	59.58	38242.81654	12.851	38242.82292	478.615323	=IF(MINUTE(A56)=41,1,0)	38242.82064	59.5218382284364	59.5218382284364	=H56-H2	=K56*0.004301	[illegible]	=M56*2.31	=N56*0.3048	=O56-O3457
57	38242.8623	59.561	38242.85821	12.856	38242.86458	738.856055	=IF(MINUTE(A57)=41,1,0)	38242.8623	59.5158456884334	59.5158456884334	=H57-H2	=K57*0.004301	[illegible]	=M57*2.31	=N57*0.3048	=O57-O3457
58	38242.90397	59.553	38242.89987	12.858	38242.90625	828.168727	=IF(MINUTE(A58)=41,1,0)	38242.90397	59.5193470309053	59.5193470309053	=H58-H2	=K58*0.004301	[illegible]	=M58*2.31	=N58*0.3048	=O58-O3457
59	38242.94564	59.545	38242.94154	12.859	38242.94792	697.587765	=IF(MINUTE(A59)=41,1,0)	38242.94564	59.5193260997461	59.5193260997461	=H59-H2	=K59*0.004301	[illegible]	=M59*2.31	=N59*0.3048	=O59-O3457
60	38242.9873	59.551	38242.98321	12.854	38242.98958	354.547986	=IF(MINUTE(A60)=41,1,0)	38242.9873	59.5257519244064	59.5257519244064	=H60-H2	=K60*0.004301	[illegible]	=M60*2.31	=N60*0.3048	=O60-O3457

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure					Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/18/05 16:03	93.093	38370.67	13.139	38370.66667	202.053513		38370.6689	93.093					215.04483	65.54566418	-0.075150109
3	1/18/05 17:03	93.078	38370.72	13.146	38370.70833	210.453489		38370.71057	93.093					215.04483	65.54566418	-0.075150109
4	1/18/05 18:03	93.071	38370.75	13.142	38370.75	259.861445		38370.75223	93.093					215.04483	65.54566418	-0.075150109
5	1/18/05 19:03	93.063	38370.79	13.142	38370.79167	344.289977		38370.7939	93.093					215.04483	65.54566418	-0.075150109
6	1/18/05 20:03	93.063	38370.84	13.15	38370.83333	442.274387		38370.83557	93.093					215.04483	65.54566418	-0.075150109
7	1/18/05 21:03	93.063	38370.88	13.153	38370.875	520.938143		38370.87723	93.093					215.04483	65.54566418	-0.075150109
8	1/18/05 22:03	93.071	38370.92	13.15	38370.91667	543.772453		38370.9189	93.093					215.04483	65.54566418	-0.075150109
9	1/18/05 23:03	93.078	38370.97	13.147	38370.95833	480.623478		38370.96057	93.093					215.04483	65.54566418	-0.075150109
10	1/19/05 0:03	93.086	38371	13.145	38371	317.391256		38371.00223	93.093					215.04483	65.54566418	-0.075150109
11	1/19/05 1:03	93.101	38371.04	13.141	38371.04167	62.544963		38371.0439	93.093					215.04483	65.54566418	-0.075150109
12	1/19/05 2:03	93.101	38371.09	13.141	38371.08333	-251.914403		38371.08557	93.093					215.04483	65.54566418	-0.075150109
13	1/19/05 3:03	93.101	38371.13	13.14	38371.125	-575.949304		38371.12723	93.093					215.04483	65.54566418	-0.075150109
14	1/19/05 4:03	93.101	38371.17	13.141	38371.16667	-852.357023		38371.1689	93.093					215.04483	65.54566418	-0.075150109
15	1/19/05 5:03	93.108	38371.22	13.145	38371.20833	-1030.143591		38371.21057	93.11164946					215.0879103	65.55879505	-0.062019244
16	1/19/05 6:03	93.093	38371.25	13.15	38371.25	-1076.644722		38371.25223	93.10244428					215.0666462	65.55231378	-0.068500517
17	1/19/05 7:03	93.093	38371.29	13.163	38371.29167	-985.025902		38371.2939	93.11264333					215.0902061	65.55949481	-0.061319479
18	1/19/05 8:03	93.078	38371.34	13.175	38371.33333	-775.277601		38371.33557	93.10763653					215.078645	65.555971	-0.064843292
19	1/19/05 9:03	93.078	38371.38	13.181	38371.375	-488.79083		38371.37723	93.11343797					215.0920417	65.56005432	-0.060759976
20	1/19/05 10:03	93.078	38371.42	13.18	38371.41667	-178.320465		38371.4189	93.11337225					215.0918899	65.56000804	-0.060806252
21	1/19/05 11:03	93.078	38371.47	13.178	38371.45833	103.896131		38371.46057	93.11041251					215.0850529	65.55792413	-0.062890166
22	1/19/05 12:03	93.093	38371.5	13.165	38371.5	317.021749		38371.50223	93.11596816					215.0978865	65.56183579	-0.058978501
23	1/19/05 13:03	93.108	38371.54	13.147	38371.54167	439.254924		38371.5439	93.11824945					215.1031562	65.56344202	-0.057372273
24	1/19/05 14:03	93.116	38371.59	13.139	38371.58333	470.892178		38371.58557	93.12008303					215.1073918	65.56473302	-0.056081269
25	1/19/05 15:03	93.116	38371.63	13.137	38371.625	432.462102		38371.62723	93.12035584					215.108022	65.5649251	-0.055889188
26	1/19/05 16:03	93.108	38371.67	13.133	38371.66667	358.465489		38371.6689	93.11511108					215.0959066	65.56123232	-0.059581975
27	1/19/05 17:03	93.108	38371.72	13.128	38371.70833	288.029343		38371.71057	93.11947832					215.1059949	65.56430725	-0.056507042
28	1/19/05 18:03	93.093	38371.75	13.131	38371.75	254.409368		38371.75223	93.11337811					215.0919034	65.56001217	-0.060802125
29	1/19/05 19:03	93.086	38371.79	13.134	38371.79167	275.661803		38371.7939	93.11527204					215.0962784	65.56134566	-0.059468635
30	1/19/05 20:03	93.078	38371.84	13.14	38371.83333	348.802374		38371.83557	93.1159766					215.0979059	65.56184173	-0.058972562
31	1/19/05 21:03	93.078	38371.88	13.141	38371.875	449.241026		38371.87723	93.11929866					215.1055799	65.56418076	-0.056633537
32	1/19/05 22:03	93.078	38371.92	13.144	38371.91667	536.190787		38371.9189	93.11895728					215.1047913	65.5639404	-0.056873896
33	1/19/05 23:03	93.086	38371.97	13.14	38371.95833	563.241207		38371.96057	93.11984723					215.1068471	65.564567	-0.056247295
34	1/20/05 0:03	93.101	38372	13.13	38372	491.710852		38372.00223	93.12144563					215.1105394	65.56569241	-0.055121881
35	1/20/05 1:03	93.116	38372.04	13.12	38372.04167	303.2482		38372.0439	93.12097352					215.1094488	65.56536	-0.05545429
36	1/20/05 2:03	93.138	38372.09	13.105	38372.08333	7.926384		38372.08557	93.12481964					215.1183334	65.56806801	-0.05274628
37	1/20/05 3:03	93.146	38372.13	13.095	38372.125	-354.964056		38372.12723	93.119078					215.1050702	65.56402539	-0.056788905
38	1/20/05 4:03	93.153	38372.17	13.091	38372.16667	-724.230112		38372.1689	93.11912059					215.1051686	65.56405538	-0.056758917
39	1/20/05 5:03	93.153	38372.22	13.089	38372.20833	-1030.571573		38372.21057	93.11684334					215.0999081	65.56245199	-0.058362301
40	1/20/05 6:03	93.153	38372.25	13.092	38372.25	-1213.1888		38372.25223	93.1203169					215.107932	65.56489768	-0.05591661
41	1/20/05 7:03	93.146	38372.29	13.102	38372.29167	-1234.626612		38372.2939	93.12260583					215.1132195	65.56650929	-0.054305001
42	1/20/05 8:03	93.146	38372.34	13.103	38372.33333	-1089.81965		38372.33557	93.12849154					215.1268154	65.57065335	-0.050160944
43	1/20/05 9:03	93.138	38372.38	13.112	38372.375	-807.061394		38372.37723	93.12867534					215.12724	65.57078276	-0.05003153
44	1/20/05 10:03	93.131	38372.42	13.116	38372.41667	-440.931316		38372.4189	93.12614674					215.121399	65.56900241	-0.051811885
45	1/20/05 11:03	93.138	38372.47	13.107	38372.45833	-59.309333		38372.46057	93.12804337					215.1257802	65.5703378	-0.050476493
46	1/20/05 12:03	93.153	38372.5	13.093	38372.5	272.089938		38372.50223	93.13239047					215.135822	65.57339854	-0.04741575
47	1/20/05 13:03	93.168	38372.54	13.074	38372.54167	503.929234		38372.5439	93.13286738					215.1369237	65.57373433	-0.047079961
48	1/20/05 14:03	93.175	38372.59	13.059	38372.58333	613.054585		38372.58557	93.12775211					215.1251074	65.57013273	-0.050681563
49	1/20/05 15:03	93.175	38372.63	13.055	38372.625	605.912058		38372.62723	93.12398887					215.1164143	65.56748308	-0.053331214
50	1/20/05 16:03	93.176	38372.67	13.056	38372.66667	515.034079		38372.6689	93.12827394					215.1263128	65.57050014	-0.050314153
51	1/20/05 17:03	93.175	38372.72	13.054	38372.70833	389.509834		38372.71057	93.13273565					215.1366194	65.57364158	-0.047172712
52	1/20/05 18:03	93.175	38372.75	13.054	38372.75	281.617325		38372.75223	93.14121582					215.1562085	65.57961237	-0.041201927
53	1/20/05 19:03	93.161	38372.79	13.054	38372.79167	232.676115		38372.7939	93.13702143					215.1465195	65.57665915	-0.044155147
54	1/20/05 20:03	93.153	38372.84	13.057	38372.83333	261.498189		38372.83557	93.13679266					215.150611	65.57790625	-0.042908046
55	1/20/05 21:03	93.138	38372.88	13.056	38372.875	358.429107		38372.87723	93.12877308					215.1274658	65.57085158	-0.049962711
56	1/20/05 22:03	93.146	38372.92	13.055	38372.91667	486.846608		38372.9189	93.13733758					215.1472498	65.57688173	-0.043932564
57	1/20/05 23:03	93.153	38372.97	13.049	38372.95833	592.252313		38372.96057	93.13769733					215.1480808	65.57713504	-0.043679255
58	1/21/05 0:03	93.161	38373	13.045	38373	617.089844		38373.00223	93.13567994					215.1434207	65.57571462	-0.045099676
59	1/21/05 1:03	93.175	38373.04	13.041	38373.04167	517.658551		38373.0439	93.13724971					215.1470468	65.57681987	-0.043994419
60	1/21/05 2:03	93.183	38373.09	13.032	38373.08333	278.535032		38373.08557	93.12900293					215.1279968	65.57101341	-0.049800879

Information Only

SNL-9 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure					Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38370.6689	93.093	38370.67	13.139	38370.666667	202.053513		38370.6689	93.093					=I2*2.31	=N2*0.3048	=O2-O334
3	38370.71057	93.078	38370.72	13.146	38370.708333	210.453489		38370.71057	93.093					=I3*2.31	=N3*0.3048	=O3-O334
4	38370.75223	93.071	38370.75	13.142	38370.75	259.861445		38370.75223	93.093					=I4*2.31	=N4*0.3048	=O4-O334
5	38370.7939	93.063	38370.79	13.142	38370.791667	344.289977		38370.7939	93.093					=I5*2.31	=N5*0.3048	=O5-O334
6	38370.83557	93.063	38370.84	13.15	38370.833333	442.274387		38370.83557	93.093					=I6*2.31	=N6*0.3048	=O6-O334
7	38370.87723	93.063	38370.88	13.153	38370.875	520.938143		38370.87723	93.093					=I7*2.31	=N7*0.3048	=O7-O334
8	38370.9189	93.071	38370.92	13.15	38370.916667	543.772453		38370.9189	93.093					=I8*2.31	=N8*0.3048	=O8-O334
9	38370.96057	93.078	38370.97	13.147	38370.958333	480.623478		38370.96057	93.093					=I9*2.31	=N9*0.3048	=O9-O334
10	38371.00223	93.086	38371	13.145	38371	317.391256		38371.00223	93.093					=I10*2.31	=N10*0.3048	=O10-O334
11	38371.0439	93.101	38371.04	13.141	38371.041667	62.544963		38371.0439	93.093					=I11*2.31	=N11*0.3048	=O11-O334
12	38371.08557	93.101	38371.09	13.141	38371.083333	-251.914403		38371.08557	93.093					=I12*2.31	=N12*0.3048	=O12-O334
13	38371.12723	93.101	38371.13	13.14	38371.125	-575.949304		38371.12723	93.093					=I13*2.31	=N13*0.3048	=O13-O334
14	38371.1689	93.101	38371.17	13.141	38371.166667	-852.357023		38371.1689	93.093					=I14*2.31	=N14*0.3048	=O14-O334
15	38371.21057	93.108	38371.22	13.145	38371.208333	-1030.143591		38371.21057	93.1116494647923					=I15*2.31	=N15*0.3048	=O15-O334
16	38371.25223	93.093	38371.25	13.15	38371.25	-1076.644722		38371.25223	93.1024442624547					=I16*2.31	=N16*0.3048	=O16-O334
17	38371.2939	93.093	38371.29	13.163	38371.291667	-985.025902		38371.2939	93.1126433252641					=I17*2.31	=N17*0.3048	=O17-O334
18	38371.33557	93.078	38371.34	13.175	38371.333333	-775.277601		38371.33557	93.107638534767					=I18*2.31	=N18*0.3048	=O18-O334
19	38371.37723	93.078	38371.38	13.181	38371.375	-488.79083		38371.37723	93.1134379737198					=I19*2.31	=N19*0.3048	=O19-O334
20	38371.4189	93.078	38371.42	13.18	38371.416667	-178.320465		38371.4189	93.1133722493981					=I20*2.31	=N20*0.3048	=O20-O334
21	38371.46057	93.078	38371.47	13.178	38371.458333	103.896131		38371.46057	93.1104125142569					=I21*2.31	=N21*0.3048	=O21-O334
22	38371.50223	93.093	38371.5	13.165	38371.5	317.021749		38371.50223	93.1159681617464					=I22*2.31	=N22*0.3048	=O22-O334
23	38371.5439	93.108	38371.54	13.147	38371.541667	439.254924		38371.5439	93.1182494514037					=I23*2.31	=N23*0.3048	=O23-O334
24	38371.58557	93.116	38371.59	13.139	38371.583333	470.892178		38371.58557	93.1200630338443					=I24*2.31	=N24*0.3048	=O24-O334
25	38371.62723	93.116	38371.63	13.137	38371.625	432.462102		38371.62723	93.1203558421088					=I25*2.31	=N25*0.3048	=O25-O334
26	38371.6689	93.108	38371.67	13.133	38371.666667	358.465489		38371.6689	93.1151110624436					=I26*2.31	=N26*0.3048	=O26-O334
27	38371.71057	93.108	38371.72	13.128	38371.708333	288.029343		38371.71057	93.1194783187669					=I27*2.31	=N27*0.3048	=O27-O334
28	38371.75223	93.093	38371.75	13.131	38371.75	254.409368		38371.75223	93.113378111288					=I28*2.31	=N28*0.3048	=O28-O334
29	38371.7939	93.086	38371.79	13.134	38371.791667	275.661803		38371.7939	93.1152720357814					=I29*2.31	=N29*0.3048	=O29-O334
30	38371.83557	93.078	38371.84	13.14	38371.833333	348.802374		38371.83557	93.1159765979766					=I30*2.31	=N30*0.3048	=O30-O334
31	38371.87723	93.078	38371.88	13.141	38371.875	449.241026		38371.87723	93.119298660647					=I31*2.31	=N31*0.3048	=O31-O334
32	38371.9189	93.078	38371.92	13.144	38371.916667	536.190787		38371.9189	93.1189572838148					=I32*2.31	=N32*0.3048	=O32-O334
33	38371.96057	93.086	38371.97	13.14	38371.958333	563.241207		38371.96057	93.1198472314543					=I33*2.31	=N33*0.3048	=O33-O334
34	38372.00223	93.101	38372	13.13	38372	491.710852		38372.00223	93.1214456313244					=I34*2.31	=N34*0.3048	=O34-O334
35	38372.0439	93.116	38372.04	13.12	38372.041667	303.2482		38372.0439	93.1209735187971					=I35*2.31	=N35*0.3048	=O35-O334
36	38372.08557	93.138	38372.09	13.105	38372.083333	7.926384		38372.08557	93.1248196424789					=I36*2.31	=N36*0.3048	=O36-O334
37	38372.12723	93.146	38372.13	13.095	38372.125	-354.964056		38372.12723	93.1190779955692					=I37*2.31	=N37*0.3048	=O37-O334
38	38372.1689	93.153	38372.17	13.091	38372.166667	-724.230112		38372.1689	93.1191205867135					=I38*2.31	=N38*0.3048	=O38-O334
39	38372.21057	93.153	38372.22	13.089	38372.208333	-1030.571573		38372.21057	93.1168433371518					=I39*2.31	=N39*0.3048	=O39-O334
40	38372.25223	93.153	38372.25	13.092	38372.25	-1213.1888		38372.25223	93.1203168961787					=I40*2.31	=N40*0.3048	=O40-O334
41	38372.2939	93.146	38372.29	13.102	38372.291667	-1234.626612		38372.2939	93.1226058266901					=I41*2.31	=N41*0.3048	=O41-O334
42	38372.33557	93.146	38372.34	13.103	38372.333333	-1089.81965		38372.33557	93.1284915353589					=I42*2.31	=N42*0.3048	=O42-O334
43	38372.37723	93.138	38372.38	13.112	38372.375	-807.061394		38372.37723	93.1286753403185					=I43*2.31	=N43*0.3048	=O43-O334
44	38372.4189	93.131	38372.42	13.116	38372.416667	-440.931316		38372.4189	93.1261467422396					=I44*2.31	=N44*0.3048	=O44-O334
45	38372.46057	93.138	38372.47	13.107	38372.458333	-59.309333		38372.46057	93.1280433687503					=I45*2.31	=N45*0.3048	=O45-O334
46	38372.50223	93.153	38372.5	13.093	38372.5	272.089938		38372.50223	93.1323904712992					=I46*2.31	=N46*0.3048	=O46-O334
47	38372.5439	93.168	38372.54	13.074	38372.541667	503.929234		38372.5439	93.1328673849601					=I47*2.31	=N47*0.3048	=O47-O334
48	38372.58557	93.175	38372.59	13.059	38372.583333	613.054585		38372.58557	93.1277521130745					=I48*2.31	=N48*0.3048	=O48-O334
49	38372.62723	93.175	38372.63	13.055	38372.625	605.912058		38372.62723	93.1239888748231					=I49*2.31	=N49*0.3048	=O49-O334
50	38372.6689	93.176	38372.67	13.056	38372.666667	515.034079		38372.6689	93.1282739360806					=I50*2.31	=N50*0.3048	=O50-O334
51	38372.71057	93.175	38372.72	13.054	38372.708333	389.509834		38372.71057	93.132735653123					=I51*2.31	=N51*0.3048	=O51-O334
52	38372.75223	93.175	38372.75	13.054	38372.75	281.617325		38372.75223	93.1412158222754					=I52*2.31	=N52*0.3048	=O52-O334
53	38372.7939	93.161	38372.79	13.054	38372.791667	232.676115		38372.7939	93.1370214315974					=I53*2.31	=N53*0.3048	=O53-O334
54	38372.83557	93.153	38372.84	13.057	38372.833333	261.498189		38372.83557	93.1387926595164					=I54*2.31	=N54*0.3048	=O54-O334
55	38372.87723	93.138	38372.88	13.056	38372.875	358.429107		38372.87723	93.1287730812585					=I55*2.31	=N55*0.3048	=O55-O334
56	38372.9189	93.146	38372.92	13.055	38372.916667	486.846608		38372.9189	93.1373375607884					=I56*2.31	=N56*0.3048	=O56-O334
57	38372.96057	93.153	38372.97	13.049	38372.958333	592.252313		38372.96057	93.1376973298967					=I57*2.31	=N57*0.3048	=O57-O334
58	38373.00223	93.161	38373	13.045	38373	617.089844		38373.00223	93.1356799392					=I58*2.31	=N58*0.3048	=O58-O334
59	38373.0439	93.175	38373.04	13.041	38373.041667	517.658551		38373.0439	93.1372497091116					=I59*2.31	=N59*0.3048	=O59-O334
60	38373.08557	93.183	38373.09	13.032	38373.083333	278.535032		38373.08557	93.129002928458					=I60*2.31	=N60*0.3048	=O60-O334

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	Detrended Corrected Pressure				Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/26/05 12:08	77.046	38378.50667	13.052	38378.51042	657.333274	1	38378.50591	77.046	77.046				177.97626	54.24716405	-0.041275866
3	1/26/05 13:08	77.054	38378.54833	13.04	38378.55208	283.801421	1	38378.54758	77.046	77.04550419				177.9751145	54.24681491	-0.041625004
4	1/26/05 14:08	77.07	38378.59	13.035	38378.59375	-223.270741	1	38378.58925	77.046	77.04500825				177.9739691	54.24646577	-0.041974142
5	1/26/05 15:08	77.078	38378.63167	13.035	38378.63542	-763.889563	1	38378.63091	77.046	77.0445125				177.9728239	54.24611672	-0.042323197
6	1/26/05 16:08	77.078	38378.67333	13.037	38378.67708	-1222.713671	1	38378.67258	77.046	77.04401663				177.9716784	54.24576758	-0.042672335
7	1/26/05 17:08	77.094	38378.715	13.042	38378.71875	-1497.600718	1	38378.71425	77.046	77.04352075				177.9705329	54.24541844	-0.043021473
8	1/26/05 18:08	77.086	38378.75667	13.054	38378.76042	-1525.766743	1	38378.75591	77.046	77.043025				177.9693878	54.24506939	-0.043370527
9	1/26/05 19:08	77.094	38378.79833	13.046	38378.80208	-1300.361155	1	38378.79758	77.046	77.04252913				177.9682423	54.24472025	-0.043719666
10	1/26/05 20:08	77.093	38378.84	13.051	38378.84375	-872.660328	1	38378.83925	77.046	77.04203325				177.9670968	54.24437111	-0.044068804
11	1/26/05 21:08	77.093	38378.88167	13.059	38378.88542	-339.053952	1	38378.88091	77.046	77.0415375				177.9659516	54.24402206	-0.044417858
12	1/26/05 22:08	77.093	38378.92333	13.066	38378.92708	183.653521	1	38378.92258	77.046	77.04104163				177.9648062	54.24367292	-0.044766997
13	1/26/05 23:08	77.093	38378.965	13.059	38378.96875	587.780173	1	38378.96425	77.0934286	77.08797435				178.0732207	54.27671768	-0.011722229
14	1/27/05 0:08	77.093	38379.00667	13.044	38379.01042	801.064013	1	38379.00591	77.09313291	77.08718291				178.0713925	54.27616044	-0.012279472
15	1/27/05 1:08	77.103	38379.04833	13.04	38379.05208	802.821823	1	38379.04758	77.10326087	77.09891[illegible]				178.0936426	54.28294228	-0.005497637
16	1/27/05 2:08	77.103	38379.09	13.039	38379.09375	626.157238	1	38379.08925	77.10317983	77.09625608				178.09231	54.28253608	-0.005903835
17	1/27/05 3:08	77.103	38379.13167	13.038	38379.13542	346.329102	1	38379.13091	77.10315258	77.09571508				178.0911018	54.28216784	-0.006272077
18	1/27/05 4:08	77.103	38379.17333	13.039	38379.17708	58.964256	1	38379.17258	77.10409392	77.09610054				178.0921309	54.28248149	-0.005958428
19	1/27/05 5:08	77.101	38379.215	13.039	38379.21875	-145.883069	1	38379.21425	77.10181414	77.0933845				178.0857191	54.28052719	-0.007912728
20	1/27/05 6:08	77.101	38379.25667	13.036	38379.26042	-207.180923	1	38379.25591	77.10162166	77.09389665				178.0845913	54.28018342	-0.008256489
21	1/27/05 7:08	77.103	38379.29833	13.037	38379.30208	-108.213225	1	38379.29758	77.10356138	77.09414051				178.0874646	54.2810592	-0.007380711
22	1/27/05 8:08	77.101	38379.34	13.044	38379.34375	119.744865	1	38379.33925	77.10157353	77.09165678				178.0817272	54.27931044	-0.009129475
23	1/27/05 9:08	77.101	38379.38167	13.053	38379.38542	405.987277	1	38379.38091	77.10162097	77.09120847				178.0806916	54.27899479	-0.009445127
24	1/27/05 10:08	77.101	38379.42333	13.055	38379.42708	658.93725	1	38379.42258	77.10145008	77.09054171				178.0791513	54.27852533	-0.009914584
25	1/27/05 11:08	77.109	38379.465	13.051	38379.46875	790.186674	1	38379.46425	77.10952251	77.09811826				178.0966532	54.28385989	-0.004580025
26	1/27/05 12:08	77.101	38379.50667	13.036	38379.51042	738.215729	1	38379.50591	77.10164523	77.09274525				178.0773115	54.27796454	-0.010475378
27	1/27/05 13:08	77.111	38379.54833	13.019	38379.55208	485.969448	1	38379.54758	77.11135779	77.09886191				178.098602	54.28445389	-0.003986019
28	1/27/05 14:08	77.109	38379.59	13.014	38379.59375	67.732086	1	38379.58925	77.1090942	77.09620245				178.0922277	54.28251099	-0.005928922
29	1/27/05 15:08	77.111	38379.63167	13.016	38379.63542	-436.885741	1	38379.63091	77.11090422	77.09791672				178.0952636	54.28343635	-0.00500356
30	1/27/05 16:08	77.111	38379.67333	13.009	38379.67708	-920.951056	1	38379.67258	77.11090408	77.09752071				178.0941178	54.28308712	-0.005352797
31	1/27/05 17:08	77.109	38379.715	13.025	38379.71875	-1276.154044	1	38379.71425	77.10865544	77.09427619				178.087778	54.28115474	-0.007285178
32	1/27/05 18:08	77.109	38379.75667	13.03	38379.76042	-1420.232878	1	38379.75591	77.10874542	77.09367042				178.0868407	54.28086904	-0.007570875
33	1/27/05 19:08	77.117	38379.79833	13.033	38379.80208	-1318.554453	1	38379.79758	77.11656184	77.10119097				178.1037511	54.28602334	-0.002416569
34	1/27/05 20:08	77.109	38379.84	13.029	38379.84375	-993.719757	1	38379.83925	77.10893751	77.09367076				178.0849935	54.28030601	-0.008133908
35	1/27/05 21:08	77.117	38379.88167	13.027	38379.88542	-520.196615	1	38379.88091	77.11649121	77.10012871				178.1012973	54.28527542	-0.003164491
36	1/27/05 22:08	77.117	38379.92333	13.034	38379.92708	-5.22399	1	38379.92258	77.11673272	77.09967435				178.1007097	54.28509633	-0.003343583
37	1/27/05 23:08	77.119	38379.965	13.032	38379.96875	438.757972	1	38379.96425	77.11828131	77.10092706				178.1031415	54.28583753	-0.002602382
38	1/28/05 0:08	77.119	38380.00667	13.03	38380.01042	722.46367	1	38380.00591	77.11824455	77.10039455				178.1019114	54.2854626	-0.002977312
39	1/28/05 1:08	77.119	38380.04833	13.03	38380.05208	801.156379	1	38380.04758	77.11877677	77.1004308				178.1019954	54.28548819	-0.002951726
40	1/28/05 2:08	77.119	38380.09	13.026	38380.09375	683.588674	1	38380.08925	77.11818162	77.09833897				178.0994751	54.28472001	-0.0037199
41	1/28/05 3:08	77.135	38380.13167	13.026	38380.13542	426.710882	1	38380.13091	77.13488485	77.11554735				178.1369144	54.2961315	0.00769159
42	1/28/05 4:08	77.125	38380.17333	13.022	38380.17708	118.296562	1	38380.17258	77.12513685	77.10530348				178.113251	54.28891891	0.000479
43	1/28/05 5:08	77.117	38380.215	13.023	38380.21875	-147.371414	1	38380.21425	77.1173646	77.09703535				178.0941517	54.28309743	-0.005342488
44	1/28/05 6:08	77.127	38380.25667	13.027	38380.26042	-294.235516	1	38380.25591	77.12741557	77.10659057				178.1162242	54.28982514	0.00138523
45	1/28/05 7:08	77.127	38380.29833	13.029	38380.30208	-283.470651	1	38380.29758	77.12685438	77.10553351				178.1137824	54.28908088	0.000640961
46	1/28/05 8:08	77.127	38380.34	13.033	38380.34375	-122.404324	1	38380.33925	77.12703956	77.10522381				178.1130647	54.28886212	0.000422207
47	1/28/05 9:08	77.127	38380.38167	13.034	38380.38542	138.364874	1	38380.38091	77.12689582	77.10458332				178.1115875	54.28841186	-2.80502E-05
48	1/28/05 10:08	77.127	38380.42333	13.036	38380.42708	418.717383	1	38380.42258	77.12681414	77.10400577				178.1102533	54.28800521	-0.000434699
49	1/28/05 11:08	77.125	38380.465	13.03	38380.46875	629.736031	1	38380.46425	77.12512201	77.10181777				178.105199	54.28646467	-0.001975244
50	1/28/05 12:08	77.135	38380.50667	13.015	38380.51042	697.068103	1	38380.50591	77.13491427	77.11111427				178.126674	54.29301022	0.004570308
51	1/28/05 13:08	77.135	38380.54833	13	38380.55208	580.720594	1	38380.54758	77.13494543	77.11064955				178.1256005	54.29268302	0.004243109
52	1/28/05 14:08	77.135	38380.59	12.994	38380.59375	286.874245	1	38380.58925	77.13441606	77.10962421				178.1232322	54.29196116	0.003521247
53	1/28/05 15:08	77.127	38380.63167	12.995	38380.63542	-131.551454	1	38380.63091	77.1261869	77.1008994				178.1030776	54.28581806	-0.002621855
54	1/28/05 16:08	77.134	38380.67333	13.001	38380.67708	-586.196201	1	38380.67258	77.13327508	77.10749171				178.1183059	54.29045962	0.00201971
55	1/28/05 17:08	77.134	38380.715	13.008	38380.71875	-974.182913	1	38380.71425	77.13338522	77.10710588				178.1174148	54.29018803	0.001748119
56	1/28/05 18:08	77.134	38380.75667	13.017	38380.76042	-1203.785537	1	38380.75591	77.13350098	77.10672588				178.116537	54.28992048	0.00148057
57	1/28/05 19:08	77.134	38380.79833	13.03	38380.80208	-1218.283899	1	38380.79758	77.13334053	77.10600965				178.1150209	54.28945837	0.001018456
58	1/28/05 20:08	77.125	38380.84	13.042	38380.84375	-1011.431022	1	38380.83925	77.12430222	77.09653547				178.0929969	54.28274547	-0.005694447
59	1/28/05 21:08	77.134	38380.88167	13.05	38380.88542	-629.900602	1	38380.88091	77.13342588	77.10519318				178.112927	54.28882014	0.000380222
60	1/28/05 22:08	77.142	38380.92333	13.055	38380.92708	-161.630241	1	38380.92258	77.14150986	77.11275131				178.1304555	54.29416285	0.005722932

Information Only

WIPP-12 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	[illegible]				Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38378 50591	77 046	38378 50667	13 052	38378 51042	657 333274	=IF(MINUTE(A2)=8,1,0)	38378.50591	77.046	[illegible]				=J2*2 31	=N2*0 3048	=O2-O146
3	38378 54758	77 054	38378 54833	13 04	38378 55208	283 801421	=IF(MINUTE(A3)=8,1,0)	38378.54758	77.046	[illegible]				=J3*2 31	=N3*0 3048	=O3-O146
4	38378 58925	77 07	38378 59	13 035	38378 59375	-223 270741	=IF(MINUTE(A4)=8,1,0)	38378.58925	77.046	[illegible]				=J4*2 31	=N4*0 3048	=O4-O146
5	38378 63091	77 078	38378 63167	13 035	38378 63542	-763 889563	=IF(MINUTE(A5)=8,1,0)	38378 63091	77.046	[illegible]				=J5*2 31	=N5*0 3048	=O5-O146
6	38378 67258	77 078	38378 67333	13 037	38378 67708	-1222 713671	=IF(MINUTE(A6)=8,1,0)	38378.67258	77.046	[illegible]				=J6*2 31	=N6*0 3048	=O6-O146
7	38378 71425	77 094	38378 715	13 042	38378 71875	-1497 600718	=IF(MINUTE(A7)=8,1,0)	38378 71425	77.046	[illegible]				=J7*2 31	=N7*0 3048	=O7-O146
8	38378 75591	77 086	38378 75667	13 054	38378 76042	-1525 766743	=IF(MINUTE(A8)=8,1,0)	38378.75591	77 046	[illegible]				=J8*2 31	=N8*0 3048	=O8-O146
9	38378 79758	77 094	38378 79833	13 046	38378 80208	-1300 361155	=IF(MINUTE(A9)=8,1,0)	38378 79758	77.046	[illegible]				=J9*2 31	=N9*0 3048	=O9-O146
10	38378 83925	77 093	38378 84	13 051	38378 84375	-872 660328	=IF(MINUTE(A10)=8,1,0)	38378 83925	77 046	[illegible]				=J10*2 31	=N10*0 3048	=O10-O146
11	38378 88091	77 093	38378 88167	13 059	38378 88542	-339 053952	=IF(MINUTE(A11)=8,1,0)	38378.88091	77 046	[illegible]				=J11*2 31	=N11*0 3048	=O11-O146
12	38378 92258	77 093	38378 92333	13 066	38378 92708	183 653521	=IF(MINUTE(A12)=8,1,0)	38378 92258	77.046	[illegible]				=J12*2 31	=N12*0 3048	=O12-O146
13	38378 96425	77 093	38378 965	13 059	38378 96875	587 780173	=IF(MINUTE(A13)=8,1,0)	38378.96425	77 0934285965849	[illegible]				=J13*2 31	=N13*0 3048	=O13-O146
14	38379 00591	77 093	38379 00667	13 044	38379 01042	801 064013	=IF(MINUTE(A14)=8,1,0)	38379.00591	77 0931329110212	[illegible]				=J14*2 31	=N14*0 3048	=O14-O146
15	38379 04758	77 103	38379 04833	13 04	38379 05208	802 821823	=IF(MINUTE(A15)=8,1,0)	38379.04758	77.1032608689254	[illegible]				=J15*2 31	=N15*0 3048	=O15-O146
16	38379 08925	77 103	38379 09	13 039	38379 09375	626 157238	=IF(MINUTE(A16)=8,1,0)	38379.08925	77.1031798273627	[illegible]				=J16*2 31	=N16*0 3048	=O16-O146
17	38379 13091	77 103	38379 13167	13 038	38379 13542	346 329102	=IF(MINUTE(A17)=8,1,0)	38379 13091	77 1031525761444	[illegible]				=J17*2 31	=N17*0 3048	=O17-O146
18	38379 17258	77 103	38379 17333	13 039	38379 17708	58 964256	=IF(MINUTE(A18)=8,1,0)	38379.17258	77.1040939175244	[illegible]				=J18*2 31	=N18*0 3048	=O18-O146
19	38379 21425	77 101	38379 215	13 039	38379 21875	-145 883069	=IF(MINUTE(A19)=8,1,0)	38379.21425	77 1018141436668	[illegible]				=J19*2 31	=N19*0 3048	=O19-O146
20	38379 25591	77 101	38379 25667	13 036	38379 26042	-207 180923	=IF(MINUTE(A20)=8,1,0)	38379.25591	77.1018216618058	[illegible]				=J20*2 31	=N20*0.3048	=O20-O146
21	38379 29758	77 103	38379 29833	13 037	38379 30208	-108 213225	=IF(MINUTE(A21)=8,1,0)	38379.29758	77.1035613813471	[illegible]				=J21*2 31	=N21*0.3048	=O21-O146
22	38379 33925	77 101	38379 34	13 044	38379 34375	119 744865	=IF(MINUTE(A22)=8,1,0)	38379.33925	77.1015735262251	[illegible]				=J22*2 31	=N22*0 3048	=O22-O146
23	38379 38091	77 101	38379 38167	13 053	38379 38542	405 987277	=IF(MINUTE(A23)=8,1,0)	38379 38091	77 1016209659392	[illegible]				=J23*2 31	=N23*0.3048	=O23-O146
24	38379 42258	77 101	38379 42333	13 055	38379 42708	658 93725	=IF(MINUTE(A24)=8,1,0)	38379.42258	77.1014500603736	[illegible]				=J24*2 31	=N24*0.3048	=O24-O146
25	38379 46425	77 109	38379 465	13 051	38379 46875	790 186674	=IF(MINUTE(A25)=8,1,0)	38379 46425	77 1095225054732	[illegible]				=J25*2 31	=N25*0 3048	=O25-O146
26	38379 50591	77 101	38379 50667	13 036	38379 51042	738 215729	=IF(MINUTE(A26)=8,1,0)	38379.50591	77 1016452251106	[illegible]				=J26*2 31	=N26*0.3048	=O26-O146
27	38379 54758	77 111	38379 54833	13 019	38379 55208	485 969448	=IF(MINUTE(A27)=8,1,0)	38379.54758	77.1113577851687	[illegible]				=J27*2 31	=N27*0.3048	=O27-O146
28	38379 58925	77 109	38379 59	13 014	38379 59375	67 732086	=IF(MINUTE(A28)=8,1,0)	38379 58925	77.1090941980721	[illegible]				=J28*2 31	=N28*0 3048	=O28-O146
29	38379 63091	77 111	38379 63167	13 016	38379 63542	-436 885741	=IF(MINUTE(A29)=8,1,0)	38379 63091	77.1109042218753	[illegible]				=J29*2 31	=N29*0 3048	=O29-O146
30	38379 67258	77 111	38379 67333	13 009	38379 67708	-920 951056	=IF(MINUTE(A30)=8,1,0)	38379 67258	77 1109040818333	[illegible]				=J30*2 31	=N30*0 3048	=O30-O146
31	38379 71425	77 109	38379 715	13 025	38379 71875	-1276 154044	=IF(MINUTE(A31)=8,1,0)	38379 71425	77 1086554382211	[illegible]				=J31*2 31	=N31*0 3048	=O31-O146
32	38379 75591	77 109	38379 75667	13 03	38379 76042	-1420 232878	=IF(MINUTE(A32)=8,1,0)	38379 75591	77 108745422865	[illegible]				=J32*2 31	=N32*0 3048	=O32-O146
33	38379 79758	77 117	38379 79833	13 033	38379 80208	-1318 554453	=IF(MINUTE(A33)=8,1,0)	38379.79758	77.1165818385867	[illegible]				=J33*2 31	=N33*0 3048	=O33-O146
34	38379 83925	77 109	38379 84	13 029	38379 84375	-993 719757	=IF(MINUTE(A34)=8,1,0)	38379.83925	77 1089375061768	[illegible]				=J34*2 31	=N34*0 3048	=O34-O146
35	38379 88091	77 117	38379 88167	13 027	38379 88542	-520 196615	=IF(MINUTE(A35)=8,1,0)	38379.88091	77.1164912088009	[illegible]				=J35*2 31	=N35*0 3048	=O35-O146
36	38379 92258	77 117	38379 92333	13 034	38379 92708	-5 22399	=IF(MINUTE(A36)=8,1,0)	38379 92258	77 1167327225657	[illegible]				=J36*2 31	=N36*0 3048	=O36-O146
37	38379 96425	77 119	38379 965	13 032	38379 96875	438 757972	=IF(MINUTE(A37)=8,1,0)	38379.96425	77.118281305828	[illegible]				=J37*2 31	=N37*0 3048	=O37-O146
38	38380 00591	77 119	38380 00667	13 03	38380 01042	722 46367	=IF(MINUTE(A38)=8,1,0)	38380.00591	77.118244554956	[illegible]				=J38*2 31	=N38*0 3048	=O38-O146
39	38380 04758	77 119	38380 04833	13 03	38380 05208	801 156379	=IF(MINUTE(A39)=8,1,0)	38380 04758	77 118776768162	[illegible]				=J39*2 31	=N39*0 3048	=O39-O146
40	38380 08925	77 119	38380 09	13 026	38380 09375	683 588674	=IF(MINUTE(A40)=8,1,0)	38380.08925	77 1181816209075	[illegible]				=J40*2 31	=N40*0 3048	=O40-O146
41	38380 13091	77 135	38380 13167	13 026	38380 13542	426 710882	=IF(MINUTE(A41)=8,1,0)	38380.13091	77.1348848521224	[illegible]				=J41*2 31	=N41*0 3048	=O41-O146
42	38380 17258	77 125	38380 17333	13 022	38380 17708	118 296562	=IF(MINUTE(A42)=8,1,0)	38380 17258	77 1251368491076	[illegible]				=J42*2 31	=N42*0 3048	=O42-O146
43	38380 21425	77 117	38380 215	13 023	38380 21875	-147 371414	=IF(MINUTE(A43)=8,1,0)	38380.21425	77 1173645966449	[illegible]				=J43*2 31	=N43*0 3048	=O43-O146
44	38380 25591	77 127	38380 25667	13 027	38380 26042	-294 235516	=IF(MINUTE(A44)=8,1,0)	38380.25591	77.1274155727465	[illegible]				=J44*2 31	=N44*0 3048	=O44-O146
45	38380 29758	77 127	38380 29833	13 029	38380 30208	-283 470651	=IF(MINUTE(A45)=8,1,0)	38380 29758	77.1268543789135	[illegible]				=J45*2 31	=N45*0 3048	=O45-O146
46	38380 33925	77 127	38380 34	13 033	38380 34375	-122 404324	=IF(MINUTE(A46)=8,1,0)	38380 33925	77.1270395594818	[illegible]				=J46*2 31	=N46*0 3048	=O46-O146
47	38380 38091	77 127	38380 38167	13 034	38380 38542	138 384874	=IF(MINUTE(A47)=8,1,0)	38380.38091	77 1268958239287	[illegible]				=J47*2 31	=N47*0 3048	=O47-O146
48	38380 42258	77 127	38380 42333	13 036	38380 42708	418 717383	=IF(MINUTE(A48)=8,1,0)	38380 42258	77.1268141426531	[illegible]				=J48*2 31	=N48*0 3048	=O48-O146
49	38380.46425	77 125	38380 465	13 03	38380 46875	629 736031	=IF(MINUTE(A49)=8,1,0)	38380 46425	77.1251220148996	[illegible]				=J49*2 31	=N49*0 3048	=O49-O146
50	38380 50591	77 135	38380 50667	13 015	38380 51042	697 068103	=IF(MINUTE(A50)=8,1,0)	38380.50591	77 1349142666031	[illegible]				=J50*2 31	=N50*0 3048	=O50-O146
51	38380.54758	77 135	38380 54833	13	38380 55208	580 720594	=IF(MINUTE(A51)=8,1,0)	38380 54758	77 1349454258956	[illegible]				=J51*2 31	=N51*0 3048	=O51-O146
52	38380 58925	77 135	38380 59	12 994	38380 59375	286 874245	=IF(MINUTE(A52)=8,1,0)	38380 58925	77 1344160552647	[illegible]				=J52*2 31	=N52*0 3048	=O52-O146
53	38380 63091	77 127	38380 63167	12 995	38380 63542	-131 551454	=IF(MINUTE(A53)=8,1,0)	38380 63091	77 1261669026569	[illegible]				=J53*2 31	=N53*0 3048	=O53-O146
54	38380 67258	77 134	38380 67333	13 001	38380 67708	-586 196201	=IF(MINUTE(A54)=8,1,0)	38380.67258	77 1332750836058	[illegible]				=J54*2 31	=N54*0 3048	=O54-O146
55	38380 71425	77 134	38380 715	13 008	38380 71875	-974 182913	=IF(MINUTE(A55)=8,1,0)	38380 71425	77 1333652226633	[illegible]				=J55*2 31	=N55*0 3048	=O55-O146
56	38380 75591	77 134	38380 75667	13 017	38380 76042	-1203 785537	=IF(MINUTE(A56)=8,1,0)	38380.75591	77 1335009823564	[illegible]				=J56*2 31	=N56*0 3048	=O56-O146
57	38380 79758	77 134	38380 79833	13 03	38380 80208	-1218 283899	=IF(MINUTE(A57)=8,1,0)	38380 79758	77 1333405257978	[illegible]				=J57*2 31	=N57*0 3048	=O57-O146
58	38380 83925	77 125	38380 84	13 042	38380 84375	-1011 431022	=IF(MINUTE(A58)=8,1,0)	38380.83925	77.1243022169384	[illegible]				=J58*2 31	=N58*0 3048	=O58-O146
59	38380 88091	77 134	38380 88167	13 05	38380 88542	-629 900602	=IF(MINUTE(A59)=8,1,0)	38380.88091	77.1334256830352	[illegible]				=J59*2 31	=N59*0 3048	=O59-O146
60	38380 92258	77 142	38380 92333	13 055	38380 92708	-161 630241	=IF(MINUTE(A60)=8,1,0)	38380 92258	77 1415098844828	[illegible]				=J60*2 31	=N60*0 3048	=O60-O146

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElapsedDay	DetrendVariable	DetrendedPSI		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	10/14/04 15:59	135.1	38274.67071	12.841	38274.66667	-1364.677171	1	38274.66662	135.1	0	0	135.1		312.081	95.1222888	-0.575006138
3	10/14/04 16:59	135.129	38274.71237	12.839	38274.70833	-1531.720848	1	38274.70829	135.1	0.04167	0.000128526	135.0998716		312.0807031	95.12219831	-0.575096632
4	10/14/04 17:59	135.152	38274.75404	12.842	38274.75	-1413.789574	1	38274.74995	135.1	0.08333	0.000257021	135.0997431		312.0804063	95.12210783	-0.575187104
5	10/14/04 18:59	135.146	38274.79571	12.848	38274.79167	-1039.251026	1	38274.79162	135.1	0.125	0.000385548	135.0996145		312.0801094	95.12201734	-0.575277598
6	10/14/04 19:59	135.13	38274.83737	12.853	38274.83333	-494.776013	1	38274.83329	135.1	0.16667	0.000514074	135.0994859		312.0798125	95.12192685	-0.575368091
7	10/14/04 20:59	135.115	38274.87904	12.856	38274.875	95.718231	1	38274.87495	135.1	0.20833	0.000642569	135.0993574		312.0795157	95.12183637	-0.575458563
8	10/14/04 21:59	135.1	38274.92071	12.849	38274.91667	600.956962	1	38274.91662	135.1	0.25	0.000771095	135.0992289		312.0792188	95.12174588	-0.575549057
9	10/14/04 22:59	135.092	38274.96237	12.843	38274.95833	914.033308	1	38274.95829	135.1	0.29167	0.000899621	135.0991004		312.0789219	95.12165539	-0.575639551
10	10/14/04 23:59	135.1	38275.00404	12.84	38275	978.370086	1	38274.99995	135.1	0.33333	0.001028116	135.0989719		312.0786251	95.12156492	-0.575730023
11	10/15/04 0:59	135.1	38275.04571	12.841	38275.04167	801.391096	1	38275.04162	135.1	0.375	0.001156643	135.0988434		312.0783282	95.12147442	-0.575820516
12	10/15/04 1:59	135.115	38275.08737	12.837	38275.08333	452.061753	1	38275.08329	135.1	0.41667	0.001285169	135.0987148		312.0780313	95.12138393	-0.57591101
13	10/15/04 2:59	135.129	38275.12904	12.833	38275.125	42.349114	1	38275.12495	135.1	0.45833	0.001413664	135.0985863		312.0777344	95.12129346	-0.576001482
14	10/15/04 3:59	135.152	38275.17071	12.833	38275.16667	-303.070338	1	38275.16662	135.1	0.5	0.00154219	135.0984578		312.0774375	95.12120296	-0.576091976
15	10/15/04 4:59	135.167	38275.21237	12.836	38275.20833	-481.011783	1	38275.20829	135.1532506	0.54167	0.001670716	135.1515799		312.2001495	95.15860558	-0.538689359
16	10/15/04 5:59	135.183	38275.25404	12.836	38275.25	-438.490492	1	38275.24995	135.1589824	0.58333	0.001799211	135.1571532		312.2130932	95.16255082	-0.534744118
17	10/15/04 6:59	135.183	38275.29571	12.844	38275.29167	-187.697667	1	38275.29162	135.1600784	0.625	0.001927738	135.1581507		312.215328	95.16323199	-0.53406295
18	10/15/04 7:59	135.183	38275.33737	12.847	38275.33333	197.21914	1	38275.33329	135.1659432	0.66667	0.002056264	135.1639669		312.2285788	95.16727083	-0.530024108
19	10/15/04 8:59	135.176	38275.37904	12.837	38275.375	600.730313	1	38275.37495	135.1625278	0.70833	0.002184759	135.1603343		312.2203924	95.16477559	-0.532519343
20	10/15/04 9:59	135.167	38275.42071	12.826	38275.41667	897.913842	1	38275.41662	135.1580032	0.75	0.002313285	135.1556899		312.2096437	95.16149939	-0.535795546
21	10/15/04 10:59	135.167	38275.46237	12.814	38275.45833	988.719563	1	38275.45829	135.1601864	0.79167	0.002441811	135.1577445		312.2143899	95.16294604	-0.5343489
22	10/15/04 11:59	135.176	38275.50404	12.795	38275.5	825.033974	1	38275.49995	135.1630184	0.83333	0.002570306	135.1604481		312.2206351	95.16484957	-0.532445368
23	10/15/04 12:59	135.19	38275.54571	12.775	38275.54167	423.520643	1	38275.54162	135.1646409	0.875	0.002698833	135.1619421		312.2240862	95.16590146	-0.531393475
24	10/15/04 13:59	135.206	38275.58737	12.768	38275.58333	-138.55443	1	38275.58329	135.1701455	0.91667	0.002827359	135.1673181		312.2365049	95.1696867	-0.527608238
25	10/15/04 14:59	135.229	38275.62904	12.757	38275.625	-742.69699	1	38275.62495	135.17717	0.95833	0.002955854	135.1742142		312.2524347	95.1745421	-0.522752835
26	10/15/04 15:59	135.244	38275.67071	12.751	38275.66667	-1258.247747	1	38275.66662	135.1780222	1	0.00308438	135.1749370		312.2541063	95.1750516	-0.522243336
27	10/15/04 16:59	135.251	38275.71237	12.751	38275.70833	-1573.639099	1	38275.70829	135.1770251	1.04167	0.003212906	135.1738122		312.2515062	95.17425909	-0.523035851
28	10/15/04 17:59	135.251	38275.75404	12.756	38275.75	-1622.305786	1	38275.74995	135.1774852	1.08333	0.003341401	135.1741238		312.2522261	95.1744785	-0.522816437
29	10/15/04 18:59	135.244	38275.79571	12.763	38275.79167	-1397.373695	1	38275.79162	135.1792592	1.125	0.003469928	135.1757892		312.2560732	95.1756511	-0.521643841
30	10/15/04 19:59	135.229	38275.83737	12.772	38275.83333	-952.088406	1	38275.83329	135.1811197	1.16667	0.003598454	135.1775312		312.2600741	95.17687057	-0.520424367
31	10/15/04 20:59	135.213	38275.87904	12.777	38275.875	-386.271883	1	38275.87495	135.1841637	1.20833	0.003726949	135.1804368		312.266809	95.17892337	-0.518371566
32	10/15/04 21:59	135.191	38275.92071	12.784	38275.91667	177.791431	1	38275.91662	135.1830817	1.25	0.003855475	135.1792262		312.2640126	95.17807105	-0.519223893
33	10/15/04 22:59	135.176	38275.96237	12.781	38275.95833	624.342831	1	38275.95829	135.1811107	1.29167	0.003984001	135.1771267		312.2591626	95.17659277	-0.52070217
34	10/15/04 23:59	135.175	38276.00404	12.783	38276	871.253586	1	38275.99995	135.1901996	1.33333	0.004112496	135.1860671		312.2798612	95.18290168	-0.514393254
35	10/16/04 0:59	135.161	38276.04571	12.786	38276.04167	888.847289	1	38276.04162	135.1802777	1.375	0.004241023	135.1760367		312.2566448	95.17582534	-0.521469595
36	10/16/04 1:59	135.168	38276.08737	12.796	38276.08333	705.796813	1	38276.08329	135.188242	1.41667	0.004369549	135.1838725		312.2747454	95.18134241	-0.515952525
37	10/16/04 2:59	135.168	38276.12904	12.805	38276.125	400.356445	1	38276.12495	135.1831282	1.45833	0.004498044	135.1798302		312.2626357	95.17765137	-0.519643573
38	10/16/04 3:59	135.183	38276.17071	12.828	38276.16667	78.750622	1	38276.16662	135.1969464	1.5	0.00462657	135.1923198		312.2942588	95.1872901	-0.510004843
39	10/16/04 4:59	135.167	38276.21237	12.858	38276.20833	-154.0113	1	38276.20829	135.1836302	1.54167	0.004755096	135.1788731		312.2632014	95.1778238	-0.519471142
40	10/16/04 5:59	135.183	38276.25404	12.873	38276.25	-223.252226	1	38276.24995	135.196606	1.58333	0.004883591	135.1917224		312.2928788	95.18686946	-0.510425475
41	10/16/04 6:59	135.183	38276.29571	12.88	38276.29167	-105.62205	1	38276.29162	135.1938744	1.625	0.005012118	135.1886623		312.286272	95.18485569	-0.512439245
42	10/16/04 7:59	135.184	38276.33737	12.882	38276.33333	164.124848	1	38276.33329	135.1949576	1.66667	0.005140644	135.1906617		312.2884772	95.18552784	-0.511767094
43	10/16/04 8:59	135.184	38276.37904	12.886	38276.375	502.709105	1	38276.37495	135.2011264	1.70833	0.005269139	135.1968372		312.3024303	95.18978074	-0.507514195
44	10/16/04 9:59	135.183	38276.42071	12.875	38276.41667	801.620764	1	38276.41662	135.2011654	1.75	0.005397665	135.1967678		312.3022236	95.18971774	-0.507577193
45	10/16/04 10:59	135.184	38276.46237	12.86	38276.45833	957.449216	1	38276.45829	135.2008405	1.79167	0.005526191	135.1953143		312.3011761	95.18939847	-0.507896471
46	10/16/04 11:59	135.184	38276.50404	12.845	38276.5	900.625032	1	38276.49995	135.1970334	1.83333	0.005654686	135.1913788		312.2920849	95.18662748	-0.510667455
47	10/16/04 12:59	135.199	38276.54571	12.83	38276.54167	614.675849	1	38276.54162	135.2042055	1.875	0.005783213	135.1984223		312.3083556	95.19158678	-0.505708155
48	10/16/04 13:59	135.206	38276.58737	12.814	38276.58333	141.109005	1	38276.58329	135.1981728	1.91667	0.005911739	135.1922611		312.2941231	95.18724872	-0.51004622
49	10/16/04 14:59	135.222	38276.62904	12.804	38276.625	-430.783386	1	38276.62495	135.2006874	1.95833	0.006040234	135.1946472		312.299635	95.18892875	-0.508366192
50	10/16/04 15:59	135.237	38276.67071	12.8	38276.66667	-985.887993	1	38276.66662	135.2039871	2	0.00616876	135.1978184		312.3069604	95.19116153	-0.506133408
51	10/16/04 16:59	135.252	38276.71237	12.803	38276.70833	-1410.932722	1	38276.70829	135.2126053	2.04167	0.006297286	135.2063038		312.3265715	95.19713899	-0.500155948
52	10/16/04 17:59	135.252	38276.75404	12.8	38276.75	-1620.817204	1	38276.74995	135.2071657	2.08333	0.006425781	135.2007399		312.3137092	95.19321855	-0.504076388
53	10/16/04 18:59	135.251	38276.79571	12.802	38276.79167	-1577.407238	1	38276.79162	135.2086459	2.125	0.006554308	135.2020918		312.3168316	95.19417027	-0.503124666
54	10/16/04 19:59	135.245	38276.83737	12.806	38276.83333	-1296.775978	1	38276.83329	135.2124511	2.16667	0.006682834	135.2057683		312.3253247	95.19675898	-0.500535956
55	10/16/04 20:59	135.237	38276.87904	12.805	38276.875	-843.770777	1	38276.87495	135.2161008	2.20833	0.006811329	135.2092894		312.3334586	95.19923817	-0.498056766
56	10/16/04 21:59	135.222	38276.92071	12.803	38276.91667	-315.69216	1	38276.91662	135.2145674	2.25	0.006939855	135.2076279		312.3296196	95.19806805	-0.499226887
57	10/16/04 22:59	135.206	38276.96237	12.8	38276.95833	180.812398	1	38276.95829	135.2109173	2.29167	0.007068381	135.2008489		312.320891	95.19540756	-0.501887376
58	10/16/04 23:59	135.206	38277.00404	12.793	38277	554.21944	1	38276.99995	135.2179229	2.33333	0.007196876	135.2110725		312.3367772	95.20024968	-0.497045257
59	10/17/04 0:59	135.199	38277.04571	12.793	38277.04167	748.395555	1	38277.04162	135.2188732	2.375	0.007325403	135.2095470		312.3340555	95.1994201	-0.497874834
60	10/17/04 1:59	135.206	38277.08737	12.792	38277.08333	754.067674	1	38277.08329	135.2238213	2.41667	0.007453929	135.2163674		312.3498087	95.2042217	-0.493073238

Information Only

WIPP-13 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElapsedDay	DetrendVariable	DetrendedPS		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38274.66662	135.1	38274.67071	12.841	38274.66667	-1364.677171	=IF(MINUTE(A2)=59,1,0)	38274.66662	135.1	=H2-H2	=J2*0.00308438	H2-K2		=L2*2.31	=N2*0.3048	=O2-O2638
3	38274.70829	135.129	38274.71237	12.839	38274.70833	-1531.720848	=IF(MINUTE(A3)=59,1,0)	38274.70829	135.1	=H3-H2	=J3*0.00308438	H3-K3		=L3*2.31	=N3*0.3048	=O3-O2638
4	38274.74995	135.152	38274.75404	12.842	38274.75	-1413.789574	=IF(MINUTE(A4)=59,1,0)	38274.74995	135.1	=H4-H2	=J4*0.00308438	H4-K4		=L4*2.31	=N4*0.3048	=O4-O2638
5	38274.79162	135.146	38274.79571	12.848	38274.79167	-1039.251026	=IF(MINUTE(A5)=59,1,0)	38274.79162	135.1	=H5-H2	=J5*0.00308438	H5-K5		=L5*2.31	=N5*0.3048	=O5-O2638
6	38274.83329	135.13	38274.83737	12.853	38274.83333	-494.776013	=IF(MINUTE(A6)=59,1,0)	38274.83329	135.1	=H6-H2	=J6*0.00308438	H6-K6		=L6*2.31	=N6*0.3048	=O6-O2638
7	38274.87495	135.115	38274.87904	12.856	38274.875	95.718231	=IF(MINUTE(A7)=59,1,0)	38274.87495	135.1	=H7-H2	=J7*0.00308438	H7-K7		=L7*2.31	=N7*0.3048	=O7-O2638
8	38274.91662	135.1	38274.92071	12.849	38274.91667	600.956962	=IF(MINUTE(A8)=59,1,0)	38274.91662	135.1	=H8-H2	=J8*0.00308438	H8-K8		=L8*2.31	=N8*0.3048	=O8-O2638
9	38274.95829	135.092	38274.96237	12.843	38274.95833	914.033308	=IF(MINUTE(A9)=59,1,0)	38274.95829	135.1	=H9-H2	=J9*0.00308438	H9-K9		=L9*2.31	=N9*0.3048	=O9-O2638
10	38274.99995	135.1	38275.00404	12.84	38275	978.370086	=IF(MINUTE(A10)=59,1,0)	38274.99995	135.1	=H10-H2	=J10*0.00308438	H10-K10		=L10*2.31	=N10*0.3048	=O10-O2638
11	38275.04162	135.1	38275.04571	12.841	38275.04167	801.391096	=IF(MINUTE(A11)=59,1,0)	38275.04162	135.1	=H11-H2	=J11*0.00308438	H11-K11		=L11*2.31	=N11*0.3048	=O11-O2638
12	38275.08329	135.115	38275.08737	12.837	38275.08333	452.061753	=IF(MINUTE(A12)=59,1,0)	38275.08329	135.1	=H12-H2	=J12*0.00308438	H12-K12		=L12*2.31	=N12*0.3048	=O12-O2638
13	38275.12495	135.129	38275.12904	12.833	38275.125	42.349114	=IF(MINUTE(A13)=59,1,0)	38275.12495	135.1	=H13-H2	=J13*0.00308438	H13-K13		=L13*2.31	=N13*0.3048	=O13-O2638
14	38275.16662	135.152	38275.17071	12.833	38275.16667	-303.070338	=IF(MINUTE(A14)=59,1,0)	38275.16662	135.1	=H14-H2	=J14*0.00308438	H14-K14		=L14*2.31	=N14*0.3048	=O14-O2638
15	38275.20829	135.167	38275.21237	12.836	38275.20833	-481.011783	=IF(MINUTE(A15)=59,1,0)	38275.20829	135.153250602059	=H15-H2	=J15*0.00308438	H15-K15		=L15*2.31	=N15*0.3048	=O15-O2638
16	38275.24995	135.183	38275.25404	12.836	38275.25	-438.490492	=IF(MINUTE(A16)=59,1,0)	38275.24995	135.158982432774	=H16-H2	=J16*0.00308438	H16-K16		=L16*2.31	=N16*0.3048	=O16-O2638
17	38275.29162	135.183	38275.29571	12.844	38275.29167	-187.697667	=IF(MINUTE(A17)=59,1,0)	38275.29162	135.160078407063	=H17-H2	=J17*0.00308438	H17-K17		=L17*2.31	=N17*0.3048	=O17-O2638
18	38275.33329	135.183	38275.33737	12.847	38275.33333	197.21914	=IF(MINUTE(A18)=59,1,0)	38275.33329	135.165943206868	=H18-H2	=J18*0.00308438	H18-K18		=L18*2.31	=N18*0.3048	=O18-O2638
19	38275.37495	135.176	38275.37904	12.837	38275.375	600.730313	=IF(MINUTE(A19)=59,1,0)	38275.37495	135.162527776956	=H19-H2	=J19*0.00308438	H19-K19		=L19*2.31	=N19*0.3048	=O19-O2638
20	38275.41662	135.167	38275.42071	12.826	38275.41667	897.913842	=IF(MINUTE(A20)=59,1,0)	38275.41662	135.158003188077	=H20-H2	=J20*0.00308438	H20-K20		=L20*2.31	=N20*0.3048	=O20-O2638
21	38275.45829	135.167	38275.46237	12.814	38275.45833	988.719563	=IF(MINUTE(A21)=59,1,0)	38275.45829	135.160186351788	=H21-H2	=J21*0.00308438	H21-K21		=L21*2.31	=N21*0.3048	=O21-O2638
22	38275.49995	135.176	38275.50404	12.795	38275.5	825.033974	=IF(MINUTE(A22)=59,1,0)	38275.49995	135.163018390128	=H22-H2	=J22*0.00308438	H22-K22		=L22*2.31	=N22*0.3048	=O22-O2638
23	38275.54162	135.19	38275.54571	12.775	38275.54167	423.520643	=IF(MINUTE(A23)=59,1,0)	38275.54162	135.164640896292	=H23-H2	=J23*0.00308438	H23-K23		=L23*2.31	=N23*0.3048	=O23-O2638
24	38275.58329	135.206	38275.58737	12.768	38275.58333	-138.55443	=IF(MINUTE(A24)=59,1,0)	38275.58329	135.170145506922	=H24-H2	=J24*0.00308438	H24-K24		=L24*2.31	=N24*0.3048	=O24-O2638
25	38275.62495	135.229	38275.62904	12.757	38275.625	-742.69699	=IF(MINUTE(A25)=59,1,0)	38275.62495	135.177170019877	=H25-H2	=J25*0.00308438	H25-K25		=L25*2.31	=N25*0.3048	=O25-O2638
26	38275.66662	135.244	38275.67071	12.751	38275.66667	-1258.247747	=IF(MINUTE(A26)=59,1,0)	38275.66662	135.178022175091	=H26-H2	=J26*0.00308438	H26-K26		=L26*2.31	=N26*0.3048	=O26-O2638
27	38275.70829	135.251	38275.71237	12.751	38275.70833	-1573.639099	=IF(MINUTE(A27)=59,1,0)	38275.70829	135.177025109915	=H27-H2	=J27*0.00308438	H27-K27		=L27*2.31	=N27*0.3048	=O27-O2638
28	38275.74995	135.251	38275.75404	12.756	38275.75	-1622.305786	=IF(MINUTE(A28)=59,1,0)	38275.74995	135.177465234888	=H28-H2	=J28*0.00308438	H28-K28		=L28*2.31	=N28*0.3048	=O28-O2638
29	38275.79162	135.244	38275.79571	12.763	38275.79167	-1397.373695	=IF(MINUTE(A29)=59,1,0)	38275.79162	135.179259171328	=H29-H2	=J29*0.00308438	H29-K29		=L29*2.31	=N29*0.3048	=O29-O2638
30	38275.83329	135.229	38275.83737	12.772	38275.83333	-952.088406	=IF(MINUTE(A30)=59,1,0)	38275.83329	135.181119688638	=H30-H2	=J30*0.00308438	H30-K30		=L30*2.31	=N30*0.3048	=O30-O2638
31	38275.87495	135.213	38275.87904	12.777	38275.875	-386.271883	=IF(MINUTE(A31)=59,1,0)	38275.87495	135.184163729188	=H31-H2	=J31*0.00308438	H31-K31		=L31*2.31	=N31*0.3048	=O31-O2638
32	38275.91662	135.191	38275.92071	12.784	38275.91667	177.791431	=IF(MINUTE(A32)=59,1,0)	38275.91662	135.183081715731	=H32-H2	=J32*0.00308438	H32-K32		=L32*2.31	=N32*0.3048	=O32-O2638
33	38275.95829	135.176	38275.96237	12.781	38275.95833	624.342831	=IF(MINUTE(A33)=59,1,0)	38275.95829	135.181110678493	=H33-H2	=J33*0.00308438	H33-K33		=L33*2.31	=N33*0.3048	=O33-O2638
34	38275.99995	135.175	38276.00404	12.783	38276	871.253586	=IF(MINUTE(A34)=59,1,0)	38275.99995	135.190199582843	=H34-H2	=J34*0.00308438	H34-K34		=L34*2.31	=N34*0.3048	=O34-O2638
35	38276.04162	135.161	38276.04571	12.786	38276.04167	888.847289	=IF(MINUTE(A35)=59,1,0)	38276.04162	135.180277743802	=H35-H2	=J35*0.00308438	H35-K35		=L35*2.31	=N35*0.3048	=O35-O2638
36	38276.08329	135.168	38276.08737	12.796	38276.08333	705.796813	=IF(MINUTE(A36)=59,1,0)	38276.08329	135.188242037601	=H36-H2	=J36*0.00308438	H36-K36		=L36*2.31	=N36*0.3048	=O36-O2638
37	38276.12495	135.168	38276.12904	12.805	38276.125	400.356445	=IF(MINUTE(A37)=59,1,0)	38276.12495	135.183128222902	=H37-H2	=J37*0.00308438	H37-K37		=L37*2.31	=N37*0.3048	=O37-O2638
38	38276.16662	135.183	38276.17071	12.828	38276.16667	78.750622	=IF(MINUTE(A38)=59,1,0)	38276.16662	135.196946415049	=H38-H2	=J38*0.00308438	H38-K38		=L38*2.31	=N38*0.3048	=O38-O2638
39	38276.20829	135.167	38276.21237	12.858	38276.20833	-154.0113	=IF(MINUTE(A39)=59,1,0)	38276.20829	135.183630174312	=H39-H2	=J39*0.00308438	H39-K39		=L39*2.31	=N39*0.3048	=O39-O2638
40	38276.24995	135.183	38276.25404	12.873	38276.25	-223.252226	=IF(MINUTE(A40)=59,1,0)	38276.24995	135.196606023211	=H40-H2	=J40*0.00308438	H40-K40		=L40*2.31	=N40*0.3048	=O40-O2638
41	38276.29162	135.183	38276.29571	12.88	38276.29167	-105.62205	=IF(MINUTE(A41)=59,1,0)	38276.29162	135.193874437114	=H41-H2	=J41*0.00308438	H41-K41		=L41*2.31	=N41*0.3048	=O41-O2638
42	38276.33329	135.184	38276.33737	12.882	38276.33333	164.124848	=IF(MINUTE(A42)=59,1,0)	38276.33329	135.194957604469	=H42-H2	=J42*0.00308438	H42-K42		=L42*2.31	=N42*0.3048	=O42-O2638
43	38276.37495	135.184	38276.37904	12.886	38276.375	502.709105	=IF(MINUTE(A43)=59,1,0)	38276.37495	135.20112639487	=H43-H2	=J43*0.00308438	H43-K43		=L43*2.31	=N43*0.3048	=O43-O2638
44	38276.41662	135.183	38276.42071	12.875	38276.41667	801.620764	=IF(MINUTE(A44)=59,1,0)	38276.41662	135.201165445282	=H44-H2	=J44*0.00308438	H44-K44		=L44*2.31	=N44*0.3048	=O44-O2638
45	38276.45829	135.184	38276.46237	12.86	38276.45833	957.449216	=IF(MINUTE(A45)=59,1,0)	38276.45829	135.20084050798	=H45-H2	=J45*0.00308438	H45-K45		=L45*2.31	=N45*0.3048	=O45-O2638
46	38276.49995	135.184	38276.50404	12.845	38276.5	900.625032	=IF(MINUTE(A46)=59,1,0)	38276.49995	135.197033439478	=H46-H2	=J46*0.00308438	H46-K46		=L46*2.31	=N46*0.3048	=O46-O2638
47	38276.54162	135.199	38276.54571	12.83	38276.54167	614.675849	=IF(MINUTE(A47)=59,1,0)	38276.54162	135.204205544899	=H47-H2	=J47*0.00308438	H47-K47		=L47*2.31	=N47*0.3048	=O47-O2638
48	38276.58329	135.206	38276.58737	12.814	38276.58333	141.109005	=IF(MINUTE(A48)=59,1,0)	38276.58329	135.198172817144	=H48-H2	=J48*0.00308438	H48-K48		=L48*2.31	=N48*0.3048	=O48-O2638
49	38276.62495	135.222	38276.62904	12.804	38276.625	-430.783386	=IF(MINUTE(A49)=59,1,0)	38276.62495	135.200687418112	=H49-H2	=J49*0.00308438	H49-K49		=L49*2.31	=N49*0.3048	=O49-O2638
50	38276.66662	135.237	38276.67071	12.8	38276.66667	-985.887993	=IF(MINUTE(A50)=59,1,0)	38276.66662	135.203987115409	=H50-H2	=J50*0.00308438	H50-K50		=L50*2.31	=N50*0.3048	=O50-O2638
51	38276.70829	135.252	38276.71237	12.803	38276.70833	-1410.932722	=IF(MINUTE(A51)=59,1,0)	38276.70829	135.212605290831	=H51-H2	=J51*0.00308438	H51-K51		=L51*2.31	=N51*0.3048	=O51-O2638
52	38276.74995	135.252	38276.75404	12.8	38276.75	-1620.817204	=IF(MINUTE(A52)=59,1,0)	38276.74995	135.207165675254	=H52-H2	=J52*0.00308438	H52-K52		=L52*2.31	=N52*0.3048	=O52-O2638
53	38276.79162	135.251	38276.79571	12.802	38276.79167	-1577.407238	=IF(MINUTE(A53)=59,1,0)	38276.79162	135.208845909371	=H53-H2	=J53*0.00308438	H53-K53		=L53*2.31	=N53*0.3048	=O53-O2638
54	38276.83329	135.245	38276.83737	12.806	38276.83333	-1296.775978	=IF(MINUTE(A54)=59,1,0)	38276.83329	135.212451120601	=H54-H2	=J54*0.00308438	H54-K54		=L54*2.31	=N54*0.3048	=O54-O2638
55	38276.87495	135.237	38276.87904	12.805	38276.875	-843.770777	=IF(MINUTE(A55)=59,1,0)	38276.87495	135.216100753544	=H55-H2	=J55*0.00308438	H55-K55		=L55*2.31	=N55*0.3048	=O55-O2638
56	38276.91662	135.222	38276.92071	12.803	38276.91667	-315.69216	=IF(MINUTE(A56)=59,1,0)	38276.91662	135.214567382716	=H56-H2	=J56*0.00308438	H56-K56		=L56*2.31	=N56*0.3048	=O56-O2638
57	38276.95829	135.206	38276.96237	12.8	38276.95833	180.812398	=IF(MINUTE(A57)=59,1,0)	38276.95829	135.210917278725	=H57-H2	=J57*0.00308438	H57-K57		=L57*2.31	=N57*0.3048	=O57-O2638
58	38276.99995	135.206	38277.00404	12.793	38277	554.21944	=IF(MINUTE(A58)=59,1,0)	38276.99995	135.217922923553	=H58-H2	=J58*0.00308438	H58-K58		=L58*2.31	=N58*0.3048	=O58-O2638
59	38277.04162	135.199	38277.04571	12.793	38277.04167	748.395555	=IF(MINUTE(A59)=59,1,0)	38277.04162	135.216873221359	=H59-H2	=J59*0.00308438	H59-K59		=L59*2.31	=N59*0.3048	=O59-O2638
60	38277.08329	135.206	38277.08737	12.792	38277.08333	754.067674	=IF(MINUTE(A60)=59,1,0)	38277.08329	135.2238213434	=H60-H2	=J60*0.00308438	H60-K60		=L60*2.31	=N60*0.3048	=O60-O2638

Information Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	ElapsedDays	DetrendVariable	Debunded PSI		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/18/2005 16:17	113.049	38370.68	13.137	38370.68056	200.589615		38370.67891	113.049	0	0	113.049		261.14319	79.59644431	-0.007476492
3	1/18/2005 17:17	113.04	38370.72	13.146	38370.72222	222.326908		38370.72058	113.049	0.04167	0.00050004	113.0485		261.1420349	79.59609224	-0.007828564
4	1/18/2005 18:17	113.031	38370.76	13.143	38370.76389	284.875981		38370.76225	113.049	0.08334	0.00100008	113.0479999		261.1408798	79.59574017	-0.008180636
5	1/18/2005 19:17	113.022	38370.8	13.14	38370.80556	376.894788		38370.80391	113.049	0.125	0.0015	113.0475		261.139725	79.59538818	-0.008532624
6	1/18/2005 20:17	113.022	38370.85	13.149	38370.84722	472.461343		38370.84558	113.049	0.16667	0.00200004	113.047		261.1385699	79.59503611	-0.008884696
7	1/18/2005 21:17	113.022	38370.89	13.151	38370.88889	536.472932		38370.88725	113.049	0.20834	0.00250008	113.0464999		261.1374148	79.59468404	-0.009236768
8	1/18/2005 22:17	113.022	38370.93	13.152	38370.93056	533.385027		38370.92891	113.049	0.25	0.003	113.046		261.13626	79.59433205	-0.009588756
9	1/18/2005 23:17	113.031	38370.97	13.147	38370.97222	437.415759		38370.97058	113.049	0.29167	0.00350004	113.0455		261.1351049	79.59397998	-0.009940828
10	1/19/2005 0:17	113.049	38371.01	13.146	38371.01389	241.500257		38371.01225	113.049	0.33334	0.00400008	113.0449999		261.1339498	79.5936279	-0.0102929
11	1/19/2005 1:17	113.058	38371.05	13.139	38371.05556	-37.836914		38371.05391	113.049	0.375	0.0045	113.0445		261.132795	79.59327592	-0.010644888
12	1/19/2005 2:17	113.057	38371.1	13.141	38371.09722	-361.664578		38371.09558	113.049	0.41667	0.00500004	113.044		261.1316399	79.59292384	-0.01099696
13	1/19/2005 3:17	113.067	38371.14	13.138	38371.13889	-676.152616		38371.13725	113.049	0.45834	0.00550008	113.0434999		261.1304848	79.59257177	-0.011349032
14	1/19/2005 4:17	113.067	38371.18	13.143	38371.18056	-924.664647		38371.17891	113.049	0.5	0.006	113.043		261.12933	79.59221978	-0.01170102
15	1/19/2005 5:17	113.058	38371.22	13.145	38371.22222	-1061.139234		38371.22058	113.0609294	0.54167	0.00650004	113.0544294		261.1557318	79.60026706	-0.003653739
16	1/19/2005 6:17	113.058	38371.26	13.154	38371.26389	-1060.989517		38371.26225	113.0680684	0.58334	0.00700008	113.0610683		261.1710679	79.60494149	0.001020685
17	1/19/2005 7:17	113.04	38371.3	13.164	38371.30556	-926.549806		38371.30391	113.0600382	0.625	0.0075	113.0525382		261.1513633	79.59893554	-0.004985261
18	1/19/2005 8:17	113.031	38371.35	13.176	38371.34722	-685.824859		38371.34558	113.0596714	0.66667	0.00800004	113.0516713		261.1493608	79.59832516	-0.005595644
19	1/19/2005 9:17	113.031	38371.39	13.181	38371.38889	-385.261178		38371.38725	113.0843275	0.70834	0.00850008	113.0358274		261.1589613	79.60125142	-0.002669386
20	1/19/2005 10:17	113.04	38371.43	13.18	38371.43056	-78.76694		38371.42891	113.0711661	0.75	0.009	113.0621661		261.1736038	79.60571442	0.001793619
21	1/19/2005 11:17	113.04	38371.47	13.178	38371.47222	184.1336		38371.47058	113.0676888	0.79167	0.00950004	113.0581888		261.1644161	79.60291403	-0.001006775
22	1/19/2005 12:17	113.058	38371.51	13.159	38371.51389	368.308156		38371.51225	113.0713304	0.83334	0.01000008	113.0613303		261.171673	79.60512594	0.00120514
23	1/19/2005 13:17	113.075	38371.55	13.142	38371.55556	459.226081		38371.55391	113.0753705	0.875	0.0105	113.0648705		261.1798509	79.60761855	0.003697744
24	1/19/2005 14:17	113.075	38371.6	13.139	38371.59722	464.371163		38371.59558	113.0726037	0.91667	0.01100004	113.0616037		261.1723045	79.60531842	0.001397619
25	1/19/2005 15:17	113.075	38371.64	13.138	38371.63889	409.811011		38371.63725	113.0743062	0.95834	0.01150008	113.0628061		261.1750821	79.60616501	0.00224421
26	1/19/2005 16:17	113.067	38371.68	13.13	38371.68056	332.728613		38371.67891	113.0669815	1	0.012	113.0549815		261.1570072	79.60065581	-0.003264997
27	1/19/2005 17:17	113.067	38371.72	13.128	38371.72222	271.452231		38371.72058	113.0724703	1.04167	0.01250004	113.0599702		261.1685313	79.60416833	0.000247523
28	1/19/2005 18:17	113.049	38371.76	13.132	38371.76389	255.080402		38371.76225	113.065436	1.08334	0.01300008	113.0524359		261.151127	79.59886352	-0.005057285
29	1/19/2005 19:17	113.04	38371.8	13.135	38371.80556	295.072964		38371.80391	113.065047	1.125	0.0135	113.051547		261.1490735	79.59823761	-0.005683196
30	1/19/2005 20:17	113.04	38371.85	13.14	38371.84722	381.012654		38371.84558	113.0726708	1.16667	0.01400004	113.0586707		261.1655294	79.60325335	-0.000667451
31	1/19/2005 21:17	113.04	38371.89	13.143	38371.88889	482.021994		38371.88725	113.0776434	1.20834	0.01450008	113.0631433		261.175861	79.60640243	0.002481629
32	1/19/2005 22:17	113.04	38371.93	13.145	38371.93056	554.06444		38371.92891	113.0779396	1.25	0.015	113.0629396		261.1753905	79.60625901	0.002338209
33	1/19/2005 23:17	113.049	38371.97	13.14	38371.97222	551.779809		38371.97058	113.0780603	1.29167	0.01550004	113.0625603		261.1745143	79.60599195	0.002071141
34	1/20/2005 0:17	113.067	38372.01	13.128	38372.01389	442.012503		38372.01225	113.0806787	1.33334	0.01600008	113.0646786		261.1794076	79.60748343	0.003562629
35	1/20/2005 1:17	113.084	38372.05	13.119	38372.05556	215.30507		38372.05391	113.0836277	1.375	0.0165	113.0671277		261.1850649	79.60920779	0.005286991
36	1/20/2005 2:17	113.103	38372.1	13.102	38372.09722	-108.211425		38372.09558	113.0837975	1.41667	0.01700004	113.0667975		261.1843022	79.60897532	0.005054512
37	1/20/2005 3:17	113.111	38372.14	13.095	38372.13889	-480.75632		38372.13725	113.0800042	1.45834	0.01750008	113.0625041		261.1743845	79.60595241	0.002031605
38	1/20/2005 4:17	113.12	38372.18	13.088	38372.18056	-836.672328		38372.17891	113.0811477	1.5	0.018	113.0631477		261.1758713	79.60640557	0.002484765
39	1/20/2005 5:17	113.129	38372.22	13.089	38372.22222	-1107.639379		38372.22058	113.0895601	1.54167	0.01850004	113.07106		261.1941487	79.61197651	0.008055706
40	1/20/2005 6:17	113.12	38372.26	13.093	38372.26389	-1239.206072		38372.26225	113.0853747	1.58334	0.01900008	113.0663747		261.1833254	79.60867759	0.004756791
41	1/20/2005 7:17	113.112	38372.3	13.105	38372.30556	-1204.082213		38372.30391	113.0873655	1.625	0.0195	113.0678655		261.1867694	79.60972731	0.005806505
42	1/20/2005 8:17	113.111	38372.35	13.106	38372.34722	-1008.634739		38372.34558	113.0921844	1.66667	0.02000004	113.0721843		261.1967458	79.61276812	0.008847316
43	1/20/2005 9:17	113.102	38372.39	13.115	38372.38889	-691.057472		38372.38725	113.090171	1.70834	0.02050008	113.0696709		261.1909398	79.61099844	0.007077636
44	1/20/2005 10:17	113.102	38372.43	13.113	38372.43056	-312.006493		38372.42891	113.0904454	1.75	0.021	113.0694454		261.1904189	79.61083968	0.006918879
45	1/20/2005 11:17	113.111	38372.47	13.107	38372.47222	59.629048		38372.47058	113.0935409	1.79167	0.02150004	113.0720409		261.1964144	79.61266712	0.008746312
46	1/20/2005 12:17	113.12	38372.51	13.087	38372.51389	362.176652		38372.51225	113.0880426	1.83334	0.02200008	113.0660425		261.1825582	79.60844374	0.004522932
47	1/20/2005 13:17	113.138	38372.55	13.069	38372.55556	554.225252		38372.55391	113.0903121	1.875	0.0225	113.0678121		261.1866459	79.60968966	0.005768857
48	1/20/2005 14:17	113.146	38372.6	13.057	38372.59722	622.4534		38372.59558	113.0891199	1.91667	0.02300004	113.0661199		261.1827368	79.60849818	0.004577381
49	1/20/2005 15:17	113.155	38372.64	13.055	38372.63889	582.722262		38372.63725	113.0954001	1.95834	0.02350008	113.0719		261.1980891	79.61256796	0.008647158
50	1/20/2005 16:17	113.155	38372.68	13.054	38372.68056	474.386854		38372.67891	113.0991045	2	0.024	113.0751045		261.2034914	79.61482417	0.010903369
51	1/20/2005 17:17	113.138	38372.72	13.054	38372.72222	349.191864		38372.72058	113.0890194	2.04167	0.02450004	113.0645194		261.1790398	79.60737134	0.003450535
52	1/20/2005 18:17	113.129	38372.76	13.054	38372.76389	257.275101		38372.76225	113.0895247	2.08334	0.02500008	113.0645249		261.1790518	79.60737499	0.003454183
53	1/20/2005 19:17	113.12	38372.8	13.056	38372.80556	233.514605		38372.80391	113.0904464	2.125	0.0255	113.0649464		261.1800261	79.60767196	0.003751153
54	1/20/2005 20:17	113.12	38372.85	13.057	38372.84722	287.55127		38372.84558	113.0991882	2.16667	0.02600004	113.0731882		261.19806	79.6134735	0.009552698
55	1/20/2005 21:17	113.111	38372.89	13.055	38372.88889	400.183717		38372.88725	113.0942666	2.20834	0.02650008	113.0677665		261.1865406	79.60965759	0.005736782
56	1/20/2005 22:17	113.111	38372.93	13.054	38372.93056	527.480467		38372.92891	113.0951138	2.25	0.027	113.0681138		261.1873428	79.60990208	0.005981273
57	1/20/2005 23:17	113.121	38372.97	13.049	38372.97222	612.085411		38372.97058	113.0985541	2.29167	0.02750004	113.071054		261.1941348	79.6119723	0.008051493
58	1/21/2005 0:17	113.129	38373.01	13.043	38373.01389	599.206965		38373.01225	113.0951657	2.33334	0.02800008	113.0671656		261.1851526	79.60923451	0.005313706
59	1/21/2005 1:17	113.146	38373.05	13.038	38373.05556	453.225		38373.05391	113.0991352	2.375	0.0285	113.0706352		261.1931674	79.61167741	0.007756604
60	1/21/2005 2:17	113.155	38373.1	13.028	38373.09722	170.271688		38373.09558	113.0919435	2.41667	0.02900004	113.0629435		261.1753995	79.60626176	0.002340959

Information Only

WIPP-30 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET		BAROCorrect-Time	Corrected-Pressure	ElapsedDays	DetrendVariable	Detrended PSI		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38370.67891	113.049	38370.68	13.137	38370.680556	200.589615		38370.67891	113.049	=H2-H2	=J2*0.012	=I2-K2		=L2*2.31	=N2*0.3048	=O2-O334
3	38370.72058	113.04	38370.72	13.146	38370.722222	222.326908		38370.72058	113.049	=H3-H2	=J3*0.012	=I3-K3		=L3*2.31	=N3*0.3048	=O3-O334
4	38370.76225	113.031	38370.76	13.143	38370.763889	284.875981		38370.76225	113.049	=H4-H2	=J4*0.012	=I4-K4		=L4*2.31	=N4*0.3048	=O4-O334
5	38370.80391	113.022	38370.8	13.14	38370.805556	376.894788		38370.80391	113.049	=H5-H2	=J5*0.012	=I5-K5		=L5*2.31	=N5*0.3048	=O5-O334
6	38370.84558	113.022	38370.85	13.149	38370.847222	472.461343		38370.84558	113.049	=H6-H2	=J6*0.012	=I6-K6		=L6*2.31	=N6*0.3048	=O6-O334
7	38370.88725	113.022	38370.89	13.151	38370.888889	536.472932		38370.88725	113.049	=H7-H2	=J7*0.012	=I7-K7		=L7*2.31	=N7*0.3048	=O7-O334
8	38370.92891	113.022	38370.93	13.152	38370.930556	533.385027		38370.92891	113.049	=H8-H2	=J8*0.012	=I8-K8		=L8*2.31	=N8*0.3048	=O8-O334
9	38370.97058	113.031	38370.97	13.147	38370.972222	437.415759		38370.97058	113.049	=H9-H2	=J9*0.012	=I9-K9		=L9*2.31	=N9*0.3048	=O9-O334
10	38371.01225	113.049	38371.01	13.146	38371.013889	241.500257		38371.01225	113.049	=H10-H2	=J10*0.012	=I10-K10		=L10*2.31	=N10*0.3048	=O10-O334
11	38371.05391	113.058	38371.05	13.139	38371.055556	-37.836914		38371.05391	113.049	=H11-H2	=J11*0.012	=I11-K11		=L11*2.31	=N11*0.3048	=O11-O334
12	38371.09558	113.057	38371.1	13.141	38371.097222	-361.664578		38371.09558	113.049	=H12-H2	=J12*0.012	=I12-K12		=L12*2.31	=N12*0.3048	=O12-O334
13	38371.13725	113.067	38371.14	13.138	38371.138889	-676.152616		38371.13725	113.049	=H13-H2	=J13*0.012	=I13-K13		=L13*2.31	=N13*0.3048	=O13-O334
14	38371.17891	113.067	38371.18	13.143	38371.180556	-924.664647		38371.17891	113.049	=H14-H2	=J14*0.012	=I14-K14		=L14*2.31	=N14*0.3048	=O14-O334
15	38371.22058	113.058	38371.22	13.145	38371.222222	-1061.139234		38371.22058	113.060929408031	=H15-H2	=J15*0.012	=I15-K15		=L15*2.31	=N15*0.3048	=O15-O334
16	38371.26225	113.058	38371.26	13.154	38371.263889	-1060.989517		38371.26225	113.068068424473	=H16-H2	=J16*0.012	=I16-K16		=L16*2.31	=N16*0.3048	=O16-O334
17	38371.30391	113.04	38371.3	13.164	38371.305556	-926.549806		38371.30391	113.060038238298	=H17-H2	=J17*0.012	=I17-K17		=L17*2.31	=N17*0.3048	=O17-O334
18	38371.34558	113.031	38371.35	13.176	38371.347222	-685.824859		38371.34558	113.059671364693	=H18-H2	=J18*0.012	=I18-K18		=L18*2.31	=N18*0.3048	=O18-O334
19	38371.38725	113.031	38371.39	13.181	38371.388889	-385.261178		38371.38725	113.064327501833	=H19-H2	=J19*0.012	=I19-K19		=L19*2.31	=N19*0.3048	=O19-O334
20	38371.42891	113.04	38371.43	13.18	38371.430556	-78.76694		38371.42891	113.071166125899	=H20-H2	=J20*0.012	=I20-K20		=L20*2.31	=N20*0.3048	=O20-O334
21	38371.47058	113.04	38371.47	13.178	38371.472222	184.1336		38371.47058	113.06768883055	=H21-H2	=J21*0.012	=I21-K21		=L21*2.31	=N21*0.3048	=O21-O334
22	38371.51225	113.058	38371.51	13.159	38371.513889	368.308156		38371.51225	113.071330401773	=H22-H2	=J22*0.012	=I22-K22		=L22*2.31	=N22*0.3048	=O22-O334
23	38371.55391	113.075	38371.55	13.142	38371.555556	459.226081		38371.55391	113.075370510784	=H23-H2	=J23*0.012	=I23-K23		=L23*2.31	=N23*0.3048	=O23-O334
24	38371.59558	113.075	38371.6	13.139	38371.597222	464.371163		38371.59558	113.072603735849	=H24-H2	=J24*0.012	=I24-K24		=L24*2.31	=N24*0.3048	=O24-O334
25	38371.63725	113.075	38371.64	13.138	38371.638889	409.811011		38371.63725	113.074306169526	=H25-H2	=J25*0.012	=I25-K25		=L25*2.31	=N25*0.3048	=O25-O334
26	38371.67891	113.067	38371.68	13.13	38371.680556	332.728613		38371.67891	113.066981489842	=H26-H2	=J26*0.012	=I26-K26		=L26*2.31	=N26*0.3048	=O26-O334
27	38371.72058	113.067	38371.72	13.128	38371.722222	271.452231		38371.72058	113.072470280887	=H27-H2	=J27*0.012	=I27-K27		=L27*2.31	=N27*0.3048	=O27-O334
28	38371.76225	113.049	38371.76	13.132	38371.763889	255.080402		38371.76225	113.065436024123	=H28-H2	=J28*0.012	=I28-K28		=L28*2.31	=N28*0.3048	=O28-O334
29	38371.80391	113.04	38371.8	13.135	38371.805556	295.072964		38371.80391	113.065046977596	=H29-H2	=J29*0.012	=I29-K29		=L29*2.31	=N29*0.3048	=O29-O334
30	38371.84558	113.04	38371.85	13.14	38371.847222	381.012654		38371.84558	113.072670763917	=H30-H2	=J30*0.012	=I30-K30		=L30*2.31	=N30*0.3048	=O30-O334
31	38371.88725	113.04	38371.89	13.143	38371.888889	482.021994		38371.88725	113.077643369611	=H31-H2	=J31*0.012	=I31-K31		=L31*2.31	=N31*0.3048	=O31-O334
32	38371.92891	113.04	38371.93	13.145	38371.930556	554.06444		38371.92891	113.077939594034	=H32-H2	=J32*0.012	=I32-K32		=L32*2.31	=N32*0.3048	=O32-O334
33	38371.97058	113.049	38371.97	13.14	38371.972222	551.779809		38371.97058	113.078060324007	=H33-H2	=J33*0.012	=I33-K33		=L33*2.31	=N33*0.3048	=O33-O334
34	38372.01225	113.067	38372.01	13.128	38372.013889	442.012503		38372.01225	113.080678689194	=H34-H2	=J34*0.012	=I34-K34		=L34*2.31	=N34*0.3048	=O34-O334
35	38372.05391	113.084	38372.05	13.119	38372.055556	215.30507		38372.05391	113.083627681002	=H35-H2	=J35*0.012	=I35-K35		=L35*2.31	=N35*0.3048	=O35-O334
36	38372.09558	113.103	38372.1	13.102	38372.097222	-108.211425		38372.09558	113.083797536601	=H36-H2	=J36*0.012	=I36-K36		=L36*2.31	=N36*0.3048	=O36-O334
37	38372.13725	113.111	38372.14	13.095	38372.138889	-480.75632		38372.13725	113.080004211207	=H37-H2	=J37*0.012	=I37-K37		=L37*2.31	=N37*0.3048	=O37-O334
38	38372.17891	113.12	38372.18	13.088	38372.180556	-836.672328		38372.17891	113.081147744581	=H38-H2	=J38*0.012	=I38-K38		=L38*2.31	=N38*0.3048	=O38-O334
39	38372.22058	113.129	38372.22	13.089	38372.222222	-1107.639379		38372.22058	113.089560063367	=H39-H2	=J39*0.012	=I39-K39		=L39*2.31	=N39*0.3048	=O39-O334
40	38372.26225	113.12	38372.26	13.093	38372.263889	-1239.206072		38372.26225	113.085374730301	=H40-H2	=J40*0.012	=I40-K40		=L40*2.31	=N40*0.3048	=O40-O334
41	38372.30391	113.112	38372.3	13.105	38372.305556	-1204.082213		38372.30391	113.087365534505	=H41-H2	=J41*0.012	=I41-K41		=L41*2.31	=N41*0.3048	=O41-O334
42	38372.34558	113.111	38372.35	13.106	38372.347222	-1008.634739		38372.34558	113.092184368496	=H42-H2	=J42*0.012	=I42-K42		=L42*2.31	=N42*0.3048	=O42-O334
43	38372.38725	113.102	38372.39	13.115	38372.388889	-691.057472		38372.38725	113.090170973784	=H43-H2	=J43*0.012	=I43-K43		=L43*2.31	=N43*0.3048	=O43-O334
44	38372.42891	113.102	38372.43	13.113	38372.430556	-312.006493		38372.42891	113.090445414287	=H44-H2	=J44*0.012	=I44-K44		=L44*2.31	=N44*0.3048	=O44-O334
45	38372.47058	113.111	38372.47	13.107	38372.472222	59.629048		38372.47058	113.093540915314	=H45-H2	=J45*0.012	=I45-K45		=L45*2.31	=N45*0.3048	=O45-O334
46	38372.51225	113.12	38372.51	13.087	38372.513889	362.176652		38372.51225	113.088042585437	=H46-H2	=J46*0.012	=I46-K46		=L46*2.31	=N46*0.3048	=O46-O334
47	38372.55391	113.138	38372.55	13.069	38372.555556	554.225252		38372.55391	113.09031206443	=H47-H2	=J47*0.012	=I47-K47		=L47*2.31	=N47*0.3048	=O47-O334
48	38372.59558	113.146	38372.6	13.057	38372.597222	622.4534		38372.59558	113.089119878586	=H48-H2	=J48*0.012	=I48-K48		=L48*2.31	=N48*0.3048	=O48-O334
49	38372.63725	113.155	38372.64	13.055	38372.638889	582.722262		38372.63725	113.095400129629	=H49-H2	=J49*0.012	=I49-K49		=L49*2.31	=N49*0.3048	=O49-O334
50	38372.67891	113.155	38372.68	13.054	38372.680556	474.386854		38372.67891	113.099104493813	=H50-H2	=J50*0.012	=I50-K50		=L50*2.31	=N50*0.3048	=O50-O334
51	38372.72058	113.138	38372.72	13.054	38372.722222	349.191864		38372.72058	113.089019445749	=H51-H2	=J51*0.012	=I51-K51		=L51*2.31	=N51*0.3048	=O51-O334
52	38372.76225	113.129	38372.76	13.054	38372.763889	257.275101		38372.76225	113.089524868708	=H52-H2	=J52*0.012	=I52-K52		=L52*2.31	=N52*0.3048	=O52-O334
53	38372.80391	113.12	38372.8	13.056	38372.805556	233.514605		38372.80391	113.090446365388	=H53-H2	=J53*0.012	=I53-K53		=L53*2.31	=N53*0.3048	=O53-O334
54	38372.84558	113.12	38372.85	13.057	38372.847222	287.55127		38372.84558	113.09918620896	=H54-H2	=J54*0.012	=I54-K54		=L54*2.31	=N54*0.3048	=O54-O334
55	38372.88725	113.111	38372.89	13.055	38372.888889	400.183717		38372.88725	113.094266589211	=H55-H2	=J55*0.012	=I55-K55		=L55*2.31	=N55*0.3048	=O55-O334
56	38372.92891	113.111	38372.93	13.054	38372.930556	527.480467		38372.92891	113.095113754464	=H56-H2	=J56*0.012	=I56-K56		=L56*2.31	=N56*0.3048	=O56-O334
57	38372.97058	113.121	38372.97	13.049	38372.972222	612.085411		38372.97058	113.09855407952	=H57-H2	=J57*0.012	=I57-K57		=L57*2.31	=N57*0.3048	=O57-O334
58	38373.01225	113.129	38373.01	13.043	38373.013889	599.206965		38373.01225	113.095165704588	=H58-H2	=J58*0.012	=I58-K58		=L58*2.31	=N58*0.3048	=O58-O334
59	38373.05391	113.146	38373.05	13.038	38373.055556	453.225		38373.05391	113.099135216543	=H59-H2	=J59*0.012	=I59-K59		=L59*2.31	=N59*0.3048	=O59-O334
60	38373.09558	113.155	38373.1	13.028	38373.097222	170.271688		38373.09558	113.091943540416	=H60-H2	=J60*0.012	=I60-K60		=L60*2.31	=N60*0.3048	=O60-O334

Information Only

WQSP-1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElapsedDay	DetrendVariable	[illegible]		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/26/05 9:18	84.742	38378.39208	13.068	38378.38542	622.184266	1	38378.38767	84.742	0	0	[illegible]		195.75402	59.6658253	0.133831092
3	1/26/05 10:18	84.742	38378.43375	13.07	38378.42708	810.691923	1	38378.42934	84.742	0.04167	0.000566712	[illegible]		195.7527109	59.66542628	0.133432077
4	1/26/05 11:18	84.735	38378.47542	13.067	38378.46875	836.164495	1	38378.47101	84.742	0.08334	0.001133424	[illegible]		195.7514018	59.66502727	0.133033062
5	1/26/05 12:18	84.742	38378.51708	13.049	38378.51042	657.333274	1	38378.51267	84.742	0.125	0.0017	[illegible]		195.750093	59.66462835	0.132634143
6	1/26/05 13:18	84.757	38378.55875	13.04	38378.55208	283.801421	1	38378.55434	84.742	0.16667	0.002266712	[illegible]		195.7487839	59.66422933	0.132235127
7	1/26/05 14:18	84.763	38378.60042	13.037	38378.59375	-223.270741	1	38378.59601	84.742	0.20834	0.002833424	[illegible]		195.7474748	59.66383032	0.131836112
8	1/26/05 15:18	84.763	38378.64208	13.036	38378.63542	-763.889563	1	38378.63767	84.742	0.25	0.0034	[illegible]		195.746166	59.6634314	0.131437193
9	1/26/05 16:18	84.778	38378.68375	13.037	38378.67708	-1222.713671	1	38378.67934	84.76939572	0.29167	0.003966712	[illegible]		195.808141	59.68232138	0.150327172
10	1/26/05 17:18	84.778	38378.72542	13.046	38378.71875	-1497.600718	1	38378.72101	84.76739932	0.33334	0.004533424	[illegible]		195.8022202	59.68051672	0.148522519
11	1/26/05 18:18	84.772	38378.76708	13.054	38378.76042	-1525.766743	1	38378.76267	84.7653037	0.375	0.0051	[illegible]		195.7960706	59.6786423	0.1466481
12	1/26/05 19:18	84.78	38378.80875	13.052	38378.80208	-1300.361155	1	38378.80434	84.77779647	0.41667	0.005666712	[illegible]		195.8236244	59.6870407	0.155046499
13	1/26/05 20:18	84.765	38378.85042	13.054	38378.84375	-872.660328	1	38378.84601	84.77318777	0.45834	0.006233424	[illegible]		195.8116645	59.68339535	0.151401146
14	1/26/05 21:18	84.741	38378.89208	13.063	38378.88542	-339.053952	1	38378.88767	84.76820998	0.5	0.0068	[illegible]		195.7988571	59.67949163	0.147497427
15	1/26/05 22:18	84.727	38378.93375	13.063	38378.92708	183.653521	1	38378.92934	84.77142097	0.54167	0.007366712	[illegible]		195.8049653	59.68135343	0.149359227
16	1/26/05 23:18	84.72	38378.97542	13.056	38378.96875	587.780173	1	38378.97101	84.77458598	0.58334	0.007933424	[illegible]		195.8109674	59.68318286	0.15118866
17	1/27/05 0:18	84.721	38379.01708	13.041	38379.01042	801.064013	1	38379.01267	84.77579658	0.625	0.0085	[illegible]		195.8124551	59.68363632	0.151642112
18	1/27/05 1:18	84.72	38379.05875	13.041	38379.05208	802.821823	1	38379.05434	84.7733807	0.66667	0.009066712	[illegible]		195.8055653	59.68153631	0.149542106
19	1/27/05 2:18	84.727	38379.10042	13.037	38379.09375	626.157238	1	38379.09601	84.77326853	0.70834	0.009633424	[illegible]		195.8039971	59.68105832	0.149064113
20	1/27/05 3:18	84.744	38379.14208	13.037	38379.13542	346.329102	1	38379.13767	84.77798331	0.75	0.0102	[illegible]		195.8135794	59.68397901	0.151984809
21	1/27/05 4:18	84.748	38379.18375	13.04	38379.17708	58.964256	1	38379.17934	84.7700134	0.79167	0.010766712	[illegible]		195.7938599	59.67796848	0.14597428
22	1/27/05 5:18	84.774	38379.22542	13.037	38379.21875	-145.883069	1	38379.22101	84.78114281	0.83334	0.011333424	[illegible]		195.8182597	59.68540555	0.153411345
23	1/27/05 6:18	84.786	38379.26708	13.037	38379.26042	-207.180923	1	38379.26267	84.78134238	0.875	0.0119	[illegible]		195.8174119	59.68514715	0.153152943
24	1/27/05 7:18	84.787	38379.30875	13.04	38379.30208	-108.213225	1	38379.30434	84.77741478	0.91667	0.012466712	[illegible]		195.80703	59.68198274	0.14998854
25	1/27/05 8:18	84.778	38379.35042	13.046	38379.34375	119.744865	1	38379.34601	84.77084992	0.95834	0.013033424	[illegible]		195.7905561	59.6769615	0.1449673
26	1/27/05 9:18	84.772	38379.39208	13.051	38379.38542	405.987277	1	38379.38767	84.772764	1	0.0136	[illegible]		195.793715	59.67792434	0.145930138
27	1/27/05 10:18	84.763	38379.43375	13.051	38379.42708	658.93725	1	38379.42934	84.77246676	1.04167	0.014166712	[illegible]		195.7916731	59.67730196	0.145307758
28	1/27/05 11:18	84.756	38379.47542	13.048	38379.46875	790.186674	1	38379.47101	84.77253958	1.08334	0.014733424	[illegible]		195.7905322	59.67695421	0.144960002
29	1/27/05 12:18	84.763	38379.51708	13.033	38379.51042	738.215729	1	38379.51267	84.77805765	1.125	0.0153	[illegible]		195.8019702	59.68044051	0.148446304
30	1/27/05 13:18	84.771	38379.55875	13.016	38379.55208	485.969448	1	38379.55434	84.77663021	1.16667	0.015866712	[illegible]		195.7973637	59.67903645	0.147042248
31	1/27/05 14:18	84.781	38379.60042	13.011	38379.59375	67.732086	1	38379.59601	84.77791675	1.20834	0.016433424	[illegible]		195.7990265	59.67954327	0.147549068
32	1/27/05 15:18	84.787	38379.64208	13.015	38379.63542	-436.885741	1	38379.63767	84.77772304	1.25	0.017	[illegible]		195.7972702	59.67900797	0.147013761
33	1/27/05 16:18	84.793	38379.68375	13.015	38379.67708	-920.951056	1	38379.67934	84.77546091	1.29167	0.017566712	[illegible]		195.7907356	59.67701621	0.145022007
34	1/27/05 17:18	84.795	38379.72542	13.029	38379.71875	-1276.154044	1	38379.72101	84.77622435	1.33334	0.018133424	[illegible]		195.79119	59.67715473	0.145160522
35	1/27/05 18:18	84.802	38379.76708	13.032	38379.76042	-1420.232878	1	38379.76267	84.78329392	1.375	0.0187	[illegible]		195.806212	59.6817334	0.1497392
36	1/27/05 19:18	84.796	38379.80875	13.033	38379.80208	-1318.554453	1	38379.80434	84.77836436	1.41667	0.019266712	[illegible]		195.7935156	59.67786354	0.145869341
37	1/27/05 20:18	84.787	38379.85042	13.028	38379.84375	-993.719757	1	38379.84601	84.7737097	1.45834	0.019833424	[illegible]		195.7814542	59.67418724	0.142193035
38	1/27/05 21:18	84.786	38379.89208	13.026	38379.88542	-520.196615	1	38379.88767	84.78145293	1.5	0.0204	[illegible]		195.7980323	59.67924024	0.147246031
39	1/27/05 22:18	84.765	38379.93375	13.032	38379.92708	-5.22399	1	38379.92934	84.77717835	1.54167	0.020966712	[illegible]		195.7868489	59.67583154	0.143837336
40	1/27/05 23:18	84.757	38379.97542	13.034	38379.96875	438.757972	1	38379.97101	84.78541907	1.58334	0.021533424	[illegible]		195.8045758	59.68123472	0.149240511
41	1/28/05 0:18	84.75	38380.01708	13.028	38380.01042	722.46367	1	38380.01267	84.78692008	1.625	0.0221	[illegible]		195.8067344	59.68189264	0.149898436
42	1/28/05 1:18	84.742	38380.05875	13.028	38380.05208	801.156379	1	38380.05434	84.78325374	1.66667	0.022666712	[illegible]		195.796956	59.6789122	0.146917997
43	1/28/05 2:18	84.75	38380.10042	13.026	38380.09375	683.588674	1	38380.09601	84.78892809	1.70834	0.023233424	[illegible]		195.8087547	59.68250843	0.150514224
44	1/28/05 3:18	84.75	38380.14208	13.025	38380.13542	426.710882	1	38380.13767	84.77990616	1.75	0.0238	[illegible]		195.7866052	59.67575727	0.143763071
45	1/28/05 4:18	84.771	38380.18375	13.022	38380.17708	118.296562	1	38380.17934	84.78728183	1.79167	0.024366712	[illegible]		195.8023339	59.68055138	0.148557174
46	1/28/05 5:18	84.787	38380.22542	13.024	38380.21875	-147.371414	1	38380.22101	84.790005	1.83334	0.024933424	[illegible]		195.8073153	59.68206972	0.150075512
47	1/28/05 6:18	84.795	38380.26708	13.027	38380.26042	-294.235516	1	38380.26267	84.78794886	1.875	0.0255	[illegible]		195.8012569	59.68022309	0.148228891
48	1/28/05 7:18	84.802	38380.30875	13.03	38380.30208	-283.470651	1	38380.30434	84.78857083	1.91667	0.026066712	[illegible]		195.8013845	59.680262	0.148267793
49	1/28/05 8:18	84.802	38380.35042	13.033	38380.34375	-122.404324	1	38380.34601	84.78754146	1.95834	0.026633424	[illegible]		195.7976976	59.67913822	0.147144012
50	1/28/05 9:18	84.793	38380.39208	13.037	38380.38542	138.384874	1	38380.38767	84.78316337	2	0.0272	[illegible]		195.7862754	59.67565674	0.143862535
51	1/28/05 10:18	84.786	38380.43375	13.037	38380.42708	418.717383	1	38380.42934	84.78322368	2.04167	0.027766712	[illegible]		195.7851056	59.67530019	0.143305984
52	1/28/05 11:18	84.786	38380.47542	13.029	38380.46875	629.736031	1	38380.47101	84.78750558	2.08334	0.028333424	[illegible]		195.7936877	59.677916	0.1459218
53	1/28/05 12:18	84.795	38380.51708	13.011	38380.51042	697.068103	1	38380.51267	84.79368968	2.125	0.0289	[illegible]		195.8066642	59.68187123	0.14987703
54	1/28/05 13:18	84.801	38380.55875	12.998	38380.55208	580.720594	1	38380.55434	84.79406875	2.16667	0.029466712	[illegible]		195.8062307	59.68173912	0.149744916
55	1/28/05 14:18	84.801	38380.60042	12.995	38380.59375	286.874245	1	38380.59601	84.78992533	2.20834	0.030033424	[illegible]		195.7953503	59.67842277	0.146428565
56	1/28/05 15:18	84.802	38380.64208	12.996	38380.63542	-131.551454	1	38380.63767	84.7660426	2.25	0.0306	[illegible]		195.7850724	59.67529007	0.143295863
57	1/28/05 16:18	84.81	38380.68375	13.002	38380.67708	-586.196201	1	38380.67934	84.78958117	2.29167	0.031166712	[illegible]		195.7918912	59.67736844	0.145374236
58	1/28/05 17:18	84.81	38380.72542	13.013	38380.71875	-974.182913	1	38380.72101	84.78802577	2.33334	0.031733424	[illegible]		195.7870353	59.67588837	0.143894163
59	1/28/05 18:18	84.81	38380.76708	13.021	38380.76042	-1203.785537	1	38380.76267	84.78767808	2.375	0.0323	[illegible]		195.7849233	59.67524462	0.143250421
60	1/28/05 19:18	84.81	38380.80875	13.031	38380.80208	-1218.283899	1	38380.80434	84.79144553	2.41667	0.032866712	[illegible]		195.7923171	59.67749825	0.145504042

Information Only

WQSP-1 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElapsedDay	DetrendVariable	DetrendedPSI		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38378.38767	84.742	38378.39208	13.068	38378.38542	622.184266	=IF(MINUTE(A2)=18,1,0)	38378.38767	84.742	=H2-H2	=J2*0.0136	=K2-K2		=L2*2.31	=N2*0.3048	=O2-O149
3	38378.42934	84.742	38378.43375	13.07	38378.42708	810.691923	=IF(MINUTE(A3)=18,1,0)	38378.42934	84.742	=H3-H2	=J3*0.0136	=K3-K3		=L3*2.31	=N3*0.3048	=O3-O149
4	38378.47101	84.735	38378.47542	13.067	38378.46875	836.164495	=IF(MINUTE(A4)=18,1,0)	38378.47101	84.742	=H4-H2	=J4*0.0136	=K4-K4		=L4*2.31	=N4*0.3048	=O4-O149
5	38378.51267	84.742	38378.51708	13.049	38378.51042	657.333274	=IF(MINUTE(A5)=18,1,0)	38378.51267	84.742	=H5-H2	=J5*0.0136	=K5-K5		=L5*2.31	=N5*0.3048	=O5-O149
6	38378.55434	84.757	38378.55875	13.04	38378.55208	283.801421	=IF(MINUTE(A6)=18,1,0)	38378.55434	84.742	=H6-H2	=J6*0.0136	=K6-K6		=L6*2.31	=N6*0.3048	=O6-O149
7	38378.59601	84.763	38378.60042	13.037	38378.59375	-223.270741	=IF(MINUTE(A7)=18,1,0)	38378.59601	84.742	=H7-H2	=J7*0.0136	=K7-K7		=L7*2.31	=N7*0.3048	=O7-O149
8	38378.63767	84.763	38378.64208	13.036	38378.63542	-763.889563	=IF(MINUTE(A8)=18,1,0)	38378.63767	84.742	=H8-H2	=J8*0.0136	=K8-K8		=L8*2.31	=N8*0.3048	=O8-O149
9	38378.67934	84.778	38378.68375	13.037	38378.67708	-1222.713671	=IF(MINUTE(A9)=18,1,0)	38378.67934	84.7693957155265	=H9-H2	=J9*0.0136	=K9-K9		=L9*2.31	=N9*0.3048	=O9-O149
10	38378.72101	84.778	38378.72542	13.046	38378.71875	-1497.600718	=IF(MINUTE(A10)=18,1,0)	38378.72101	84.7673993205001	=H10-H2	=J10*0.0136	=K10-K10		=L10*2.31	=N10*0.3048	=O10-O149
11	38378.76267	84.772	38378.76708	13.054	38378.76042	-1525.766743	=IF(MINUTE(A11)=18,1,0)	38378.76267	84.7653037020925	=H11-H2	=J11*0.0136	=K11-K11		=L11*2.31	=N11*0.3048	=O11-O149
12	38378.80434	84.78	38378.80875	13.052	38378.80208	-1300.361155	=IF(MINUTE(A12)=18,1,0)	38378.80434	84.7777984667871	=H12-H2	=J12*0.0136	=K12-K12		=L12*2.31	=N12*0.3048	=O12-O149
13	38378.84601	84.765	38378.85042	13.054	38378.84375	-872.660328	=IF(MINUTE(A13)=18,1,0)	38378.84601	84.7731877682502	=H13-H2	=J13*0.0136	=K13-K13		=L13*2.31	=N13*0.3048	=O13-O149
14	38378.88767	84.741	38378.89208	13.063	38378.88542	-339.053952	=IF(MINUTE(A14)=18,1,0)	38378.88767	84.7682099817216	=H14-H2	=J14*0.0136	=K14-K14		=L14*2.31	=N14*0.3048	=O14-O149
15	38378.92934	84.727	38378.93375	13.063	38378.92708	183.653521	=IF(MINUTE(A15)=18,1,0)	38378.92934	84.7714209653029	=H15-H2	=J15*0.0136	=K15-K15		=L15*2.31	=N15*0.3048	=O15-O149
16	38378.97101	84.72	38378.97542	13.056	38378.96875	587.760173	=IF(MINUTE(A16)=18,1,0)	38378.97101	84.7745859782706	=H16-H2	=J16*0.0136	=K16-K16		=L16*2.31	=N16*0.3048	=O16-O149
17	38379.01267	84.721	38379.01708	13.041	38379.01042	801.064013	=IF(MINUTE(A17)=18,1,0)	38379.01267	84.7757965825734	=H17-H2	=J17*0.0136	=K17-K17		=L17*2.31	=N17*0.3048	=O17-O149
18	38379.05434	84.72	38379.05875	13.041	38379.05208	802.821823	=IF(MINUTE(A18)=18,1,0)	38379.05434	84.7733807034198	=H18-H2	=J18*0.0136	=K18-K18		=L18*2.31	=N18*0.3048	=O18-O149
19	38379.09601	84.727	38379.10042	13.037	38379.09375	626.157238	=IF(MINUTE(A19)=18,1,0)	38379.09601	84.7732685340087	=H19-H2	=J19*0.0136	=K19-K19		=L19*2.31	=N19*0.3048	=O19-O149
20	38379.13767	84.744	38379.14208	13.037	38379.13542	346.329102	=IF(MINUTE(A20)=18,1,0)	38379.13767	84.7779833071292	=H20-H2	=J20*0.0136	=K20-K20		=L20*2.31	=N20*0.3048	=O20-O149
21	38379.17934	84.748	38379.18375	13.04	38379.17708	58.964256	=IF(MINUTE(A21)=18,1,0)	38379.17934	84.7700134025669	=H21-H2	=J21*0.0136	=K21-K21		=L21*2.31	=N21*0.3048	=O21-O149
22	38379.22101	84.774	38379.22542	13.037	38379.21875	-145.863069	=IF(MINUTE(A22)=18,1,0)	38379.22101	84.7811428069413	=H22-H2	=J22*0.0136	=K22-K22		=L22*2.31	=N22*0.3048	=O22-O149
23	38379.26267	84.786	38379.26708	13.037	38379.26042	-207.180923	=IF(MINUTE(A23)=18,1,0)	38379.26267	84.781342380965	=H23-H2	=J23*0.0136	=K23-K23		=L23*2.31	=N23*0.3048	=O23-O149
24	38379.30434	84.787	38379.30875	13.04	38379.30208	-108.213225	=IF(MINUTE(A24)=18,1,0)	38379.30434	84.777414764239	=H24-H2	=J24*0.0136	=K24-K24		=L24*2.31	=N24*0.3048	=O24-O149
25	38379.34601	84.778	38379.35042	13.046	38379.34375	119.744865	=IF(MINUTE(A25)=18,1,0)	38379.34601	84.7708499245155	=H25-H2	=J25*0.0136	=K25-K25		=L25*2.31	=N25*0.3048	=O25-O149
26	38379.38767	84.772	38379.39208	13.051	38379.38542	405.987277	=IF(MINUTE(A26)=18,1,0)	38379.38767	84.7727839966482	=H26-H2	=J26*0.0136	=K26-K26		=L26*2.31	=N26*0.3048	=O26-O149
27	38379.42934	84.763	38379.43375	13.051	38379.42708	658.93725	=IF(MINUTE(A27)=18,1,0)	38379.42934	84.7724687562539	=H27-H2	=J27*0.0136	=K27-K27		=L27*2.31	=N27*0.3048	=O27-O149
28	38379.47101	84.756	38379.47542	13.048	38379.46875	790.186674	=IF(MINUTE(A28)=18,1,0)	38379.47101	84.7725395591081	=H28-H2	=J28*0.0136	=K28-K28		=L28*2.31	=N28*0.3048	=O28-O149
29	38379.51267	84.763	38379.51708	13.033	38379.51042	738.215729	=IF(MINUTE(A29)=18,1,0)	38379.51267	84.7780576497138	=H29-H2	=J29*0.0136	=K29-K29		=L29*2.31	=N29*0.3048	=O29-O149
30	38379.55434	84.771	38379.55875	13.016	38379.55208	485.969448	=IF(MINUTE(A30)=18,1,0)	38379.55434	84.7766302132374	=H30-H2	=J30*0.0136	=K30-K30		=L30*2.31	=N30*0.3048	=O30-O149
31	38379.59601	84.781	38379.60042	13.011	38379.59375	67.732086	=IF(MINUTE(A31)=18,1,0)	38379.59601	84.7779167500595	=H31-H2	=J31*0.0136	=K31-K31		=L31*2.31	=N31*0.3048	=O31-O149
32	38379.63767	84.787	38379.64208	13.015	38379.63542	-436.885741	=IF(MINUTE(A32)=18,1,0)	38379.63767	84.7777230421374	=H32-H2	=J32*0.0136	=K32-K32		=L32*2.31	=N32*0.3048	=O32-O149
33	38379.67934	84.793	38379.68375	13.015	38379.67708	-920.951056	=IF(MINUTE(A33)=18,1,0)	38379.67934	84.7754609107596	=H33-H2	=J33*0.0136	=K33-K33		=L33*2.31	=N33*0.3048	=O33-O149
34	38379.72101	84.795	38379.72542	13.029	38379.71875	-1276.154044	=IF(MINUTE(A34)=18,1,0)	38379.72101	84.7762243521032	=H34-H2	=J34*0.0136	=K34-K34		=L34*2.31	=N34*0.3048	=O34-O149
35	38379.76267	84.802	38379.76708	13.032	38379.76042	-1420.232878	=IF(MINUTE(A35)=18,1,0)	38379.76267	84.7832939201972	=H35-H2	=J35*0.0136	=K35-K35		=L35*2.31	=N35*0.3048	=O35-O149
36	38379.80434	84.796	38379.80875	13.033	38379.80208	-1318.554453	=IF(MINUTE(A36)=18,1,0)	38379.80434	84.7783643600428	=H36-H2	=J36*0.0136	=K36-K36		=L36*2.31	=N36*0.3048	=O36-O149
37	38379.84601	84.787	38379.85042	13.028	38379.84375	-993.719757	=IF(MINUTE(A37)=18,1,0)	38379.84601	84.7737096990173	=H37-H2	=J37*0.0136	=K37-K37		=L37*2.31	=N37*0.3048	=O37-O149
38	38379.88767	84.786	38379.89208	13.026	38379.88542	-520.196615	=IF(MINUTE(A38)=18,1,0)	38379.88767	84.7814529296574	=H38-H2	=J38*0.0136	=K38-K38		=L38*2.31	=N38*0.3048	=O38-O149
39	38379.92934	84.765	38379.93375	13.032	38379.92708	-5.22399	=IF(MINUTE(A39)=18,1,0)	38379.92934	84.7771783499758	=H39-H2	=J39*0.0136	=K39-K39		=L39*2.31	=N39*0.3048	=O39-O149
40	38379.97101	84.757	38379.97542	13.034	38379.96875	438.757972	=IF(MINUTE(A40)=18,1,0)	38379.97101	84.785419067957	=H40-H2	=J40*0.0136	=K40-K40		=L40*2.31	=N40*0.3048	=O40-O149
41	38380.01267	84.75	38380.01708	13.028	38380.01042	722.46367	=IF(MINUTE(A41)=18,1,0)	38380.01267	84.7889200788094	=H41-H2	=J41*0.0136	=K41-K41		=L41*2.31	=N41*0.3048	=O41-O149
42	38380.05434	84.742	38380.05875	13.028	38380.05208	801.156379	=IF(MINUTE(A42)=18,1,0)	38380.05434	84.7832537425093	=H42-H2	=J42*0.0136	=K42-K42		=L42*2.31	=N42*0.3048	=O42-O149
43	38380.09601	84.75	38380.10042	13.026	38380.09375	683.588674	=IF(MINUTE(A43)=18,1,0)	38380.09601	84.7889280928336	=H43-H2	=J43*0.0136	=K43-K43		=L43*2.31	=N43*0.3048	=O43-O149
44	38380.13767	84.75	38380.14208	13.025	38380.13542	426.710882	=IF(MINUTE(A44)=18,1,0)	38380.13767	84.779906161144	=H44-H2	=J44*0.0136	=K44-K44		=L44*2.31	=N44*0.3048	=O44-O149
45	38380.17934	84.771	38380.18375	13.022	38380.17708	118.296562	=IF(MINUTE(A45)=18,1,0)	38380.17934	84.7872818281859	=H45-H2	=J45*0.0136	=K45-K45		=L45*2.31	=N45*0.3048	=O45-O149
46	38380.22101	84.787	38380.22542	13.024	38380.21875	-147.371414	=IF(MINUTE(A46)=18,1,0)	38380.22101	84.7900049996903	=H46-H2	=J46*0.0136	=K46-K46		=L46*2.31	=N46*0.3048	=O46-O149
47	38380.26267	84.795	38380.26708	13.027	38380.26042	-294.235516	=IF(MINUTE(A47)=18,1,0)	38380.26267	84.7879488627029	=H47-H2	=J47*0.0136	=K47-K47		=L47*2.31	=N47*0.3048	=O47-O149
48	38380.30434	84.802	38380.30875	13.03	38380.30208	-283.470651	=IF(MINUTE(A48)=18,1,0)	38380.30434	84.788570825813	=H48-H2	=J48*0.0136	=K48-K48		=L48*2.31	=N48*0.3048	=O48-O149
49	38380.34601	84.802	38380.35042	13.033	38380.34375	-122.404324	=IF(MINUTE(A49)=18,1,0)	38380.34601	84.7875414586503	=H49-H2	=J49*0.0136	=K49-K49		=L49*2.31	=N49*0.3048	=O49-O149
50	38380.38767	84.793	38380.39208	13.037	38380.38542	138.384874	=IF(MINUTE(A50)=18,1,0)	38380.38767	84.7831633719925	=H50-H2	=J50*0.0136	=K50-K50		=L50*2.31	=N50*0.3048	=O50-O149
51	38380.42934	84.786	38380.43375	13.037	38380.42708	418.717383	=IF(MINUTE(A51)=18,1,0)	38380.42934	84.7832236835962	=H51-H2	=J51*0.0136	=K51-K51		=L51*2.31	=N51*0.3048	=O51-O149
52	38380.47101	84.786	38380.47542	13.029	38380.46875	629.736031	=IF(MINUTE(A52)=18,1,0)	38380.47101	84.7875055783952	=H52-H2	=J52*0.0136	=K52-K52		=L52*2.31	=N52*0.3048	=O52-O149
53	38380.51267	84.795	38380.51708	13.011	38380.51042	697.068103	=IF(MINUTE(A53)=18,1,0)	38380.51267	84.7936896764011	=H53-H2	=J53*0.0136	=K53-K53		=L53*2.31	=N53*0.3048	=O53-O149
54	38380.55434	84.801	38380.55875	12.998	38380.55208	580.720594	=IF(MINUTE(A54)=18,1,0)	38380.55434	84.7940687507277	=H54-H2	=J54*0.0136	=K54-K54		=L54*2.31	=N54*0.3048	=O54-O149
55	38380.59601	84.801	38380.60042	12.995	38380.59375	286.874245	=IF(MINUTE(A55)=18,1,0)	38380.59601	84.789925325157	=H55-H2	=J55*0.0136	=K55-K55		=L55*2.31	=N55*0.3048	=O55-O149
56	38380.63767	84.802	38380.64208	12.996	38380.63542	-131.551454	=IF(MINUTE(A56)=18,1,0)	38380.63767	84.7860425959043	=H56-H2	=J56*0.0136	=K56-K56		=L56*2.31	=N56*0.3048	=O56-O149
57	38380.67934	84.81	38380.68375	13.002	38380.67708	-586.196201	=IF(MINUTE(A57)=18,1,0)	38380.67934	84.7895611745278	=H57-H2	=J57*0.0136	=K57-K57		=L57*2.31	=N57*0.3048	=O57-O149
58	38380.72101	84.81	38380.72542	13.013	38380.71875	-974.182913	=IF(MINUTE(A58)=18,1,0)	38380.72101	84.7860257728315	=H58-H2	=J58*0.0136	=K58-K58		=L58*2.31	=N58*0.3048	=O58-O149
59	38380.76267	84.81	38380.76708	13.021	38380.76042	-1203.785537	=IF(MINUTE(A59)=18,1,0)	38380.76267	84.7876780564075	=H59-H2	=J59*0.0136	=K59-K59		=L59*2.31	=N59*0.3048	=O59-O149
60	38380.80434	84.81	38380.80875	13.031	38380.80208	-1218.283899	=IF(MINUTE(A60)=18,1,0)	38380.80434	84.7914455337114	=H60-H2	=J60*0.0136	=K60-K60		=L60*2.31	=N60*0.3048	=O60-O149

Information Only

WQSP-2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElapsedDays	DetrendVariable	[illegible]		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/26/05 9:54	88.03	38378.41292	13.067	38378.41667	776.264521	1	38378.41299	88.03	0	0	[illegible]		203.3493	61.98086664	0.148489273
3	1/26/05 10:54	88.031	38378.45458	13.069	38378.45833	848.145149	1	38378.45465	88.03	0.04166	0.000549912	[illegible]		203.3480297	61.98047945	0.148102086
4	1/26/05 11:54	88.037	38378.49625	13.057	38378.5	721.593789	1	38378.49632	88.03	0.08333	0.001099956	[illegible]		203.3467591	61.98009217	0.147714807
5	1/26/05 12:54	88.046	38378.53792	13.044	38378.54167	392.89928	1	38378.53799	88.03	0.125	0.00165	[illegible]		203.3454885	61.97970489	0.147327528
6	1/26/05 13:54	88.054	38378.57958	13.034	38378.58333	-88.979662	1	38378.57965	88.03	0.16666	0.002199912	[illegible]		203.3442182	61.97931771	0.146940341
7	1/26/05 14:54	88.069	38378.62125	13.034	38378.625	-631.899234	1	38378.62132	88.03	0.20833	0.002749956	[illegible]		203.3429476	61.97893043	0.146553062
8	1/26/05 15:54	88.076	38378.66292	13.035	38378.66667	-1121.756365	1	38378.66299	88.03	0.25	0.0033	[illegible]		203.341677	61.97854315	0.146165783
9	1/26/05 16:54	88.082	38378.70458	13.041	38378.70833	-1450.430462	1	38378.70465	88.07853962	0.29166	0.003849912	[illegible]		203.4525332	62.01233212	0.179954758
10	1/26/05 17:54	88.082	38378.74625	13.052	38378.75	-1543.26218	1	38378.74632	88.08264969	0.33333	0.004399956	[illegible]		203.4607569	62.0148387	0.182461329
11	1/26/05 18:54	88.089	38378.78792	13.044	38378.79167	-1378.601878	1	38378.78799	88.08830677	0.375	0.00495	[illegible]		203.4725541	62.0184345	0.186057134
12	1/26/05 19:54	88.075	38378.82958	13.053	38378.83333	-993.848319	1	38378.82965	88.08733965	0.41666	0.005499912	[illegible]		203.4690498	62.01736638	0.184989009
13	1/26/05 20:54	88.059	38378.87125	13.059	38378.875	-476.069445	1	38378.87132	88.08805987	0.45833	0.006049956	[illegible]		203.4694429	62.0174862	0.185108828
14	1/26/05 21:54	88.032	38378.91292	13.068	38378.91667	60.31664	1	38378.91299	88.08205339	0.5	0.0066	[illegible]		203.4542973	62.01286983	0.180492462
15	1/26/05 22:54	88.024	38378.95458	13.059	38378.95833	502.620348	1	38378.95465	88.08532233	0.54166	0.007149912	[illegible]		203.4605783	62.01478426	0.182406896
16	1/26/05 23:54	88.024	38378.99625	13.045	38379	767.719931	1	38378.99632	88.08792674	0.58333	0.007699956	[illegible]		203.4653239	62.01623071	0.183853347
17	1/27/05 0:54	88.031	38379.03792	13.04	38379.04167	821.256632	1	38379.03799	88.0955942	0.625	0.00825	[illegible]		203.4817651	62.021242	0.188864634
18	1/27/05 1:54	88.023	38379.07958	13.041	38379.08333	683.475992	1	38379.07965	88.0841916	0.66666	0.008799912	[illegible]		203.4541548	62.01282638	0.180449015
19	1/27/05 2:54	88.037	38379.12125	13.037	38379.125	420.834269	1	38379.12132	88.08667639	0.70833	0.009349956	[illegible]		203.4586241	62.01418861	0.181811247
20	1/27/05 3:54	88.052	38379.16292	13.04	38379.16667	126.250731	1	38379.16299	88.09027359	0.75	0.0099	[illegible]		203.465663	62.01633408	0.183956714
21	1/27/05 4:54	88.067	38379.20458	13.04	38379.20833	-106.422022	1	38379.20465	88.09124962	0.79166	0.010449912	[illegible]		203.4666473	62.01663411	0.18425674
22	1/27/05 5:54	88.08	38379.24625	13.036	38379.25	-207.064692	1	38379.24632	88.08913504	0.83333	0.010999956	[illegible]		203.460492	62.01475797	0.182380607
23	1/27/05 6:54	88.083	38379.28792	13.035	38379.29167	-147.05034	1	38379.28799	88.08247274	0.875	0.01155	[illegible]		203.4438315	62.00967985	0.177302483
24	1/27/05 7:54	88.091	38379.32958	13.045	38379.33333	54.001703	1	38379.32965	88.09236363	0.91666	0.012099912	[illegible]		203.4654092	62.01625672	0.183879352
25	1/27/05 8:54	88.076	38379.37125	13.049	38379.375	333.831042	1	38379.37132	88.08228953	0.95833	0.012649956	[illegible]		203.4408674	62.00877639	0.176399019
26	1/27/05 9:54	88.074	38379.41292	13.054	38379.41667	603.945483	1	38379.41299	88.09013586	1	0.0132	[illegible]		203.4577218	62.01391362	0.181536248
27	1/27/05 10:54	88.058	38379.45458	13.051	38379.45833	772.804567	1	38379.45465	88.08126131	1.04166	0.013749912	[illegible]		203.4359513	62.00727797	0.174900598
28	1/27/05 11:54	88.06	38379.49625	13.04	38379.5	770.186627	1	38379.49632	88.08353263	1.08333	0.014299956	[illegible]		203.4399275	62.00848989	0.176112527
29	1/27/05 12:54	88.067	38379.53792	13.025	38379.54167	566.799028	1	38379.53799	88.0840887	1.125	0.01485	[illegible]		203.4399414	62.00849414	0.176116772
30	1/27/05 13:54	88.075	38379.57958	13.014	38379.58333	184.141667	1	38379.57965	88.08224952	1.16666	0.015399912	[illegible]		203.4344226	62.00681201	0.17443464
31	1/27/05 14:54	88.082	38379.62125	13.016	38379.625	-308.240813	1	38379.62132	88.08299565	1.20833	0.015949956	[illegible]		203.4348756	62.00695007	0.174572703
32	1/27/05 15:54	88.088	38379.66292	13.009	38379.66667	-808.027709	1	38379.66299	88.07631434	1.25	0.0165	[illegible]		203.4181711	62.00185856	0.169481189
33	1/27/05 16:54	88.095	38379.70458	13.025	38379.70833	-1204.614799	1	38379.70465	88.08422445	1.29166	0.017049912	[illegible]		203.4351732	62.00704079	0.174663419
34	1/27/05 17:54	88.109	38379.74625	13.022	38379.75	-1406.855237	1	38379.74632	88.09239242	1.33333	0.017599956	[illegible]		203.4527706	62.01240448	0.180027109
35	1/27/05 18:54	88.102	38379.78792	13.03	38379.79167	-1366.759324	1	38379.78799	88.08912634	1.375	0.01815	[illegible]		203.4439553	62.00971759	0.177340219
36	1/27/05 19:54	88.102	38379.82958	13.029	38379.83333	-1092.524889	1	38379.82965	88.0940164	1.41666	0.018699912	[illegible]		203.4539811	62.01277344	0.180396068
37	1/27/05 20:54	88.095	38379.87125	13.029	38379.875	-646.969547	1	38379.87132	88.09606368	1.45833	0.019249956	[illegible]		203.4574397	62.01382762	0.181450257
38	1/27/05 21:54	88.08	38379.91292	13.031	38379.91667	-131.513481	1	38379.91299	88.09576971	1.5	0.0198	[illegible]		203.45549	62.01323336	0.180855996
39	1/27/05 22:54	88.067	38379.95458	13.033	38379.95833	339.934896	1	38379.95465	88.09826015	1.54166	0.020349912	[illegible]		203.4599727	62.01459966	0.182222297
40	1/27/05 23:54	88.058	38379.99625	13.031	38380	669.905467	1	38379.99632	88.10122195	1.58333	0.020899956	[illegible]		203.4655438	62.01629775	0.183920387
41	1/28/05 0:54	88.05	38380.03792	13.031	38380.04167	801.137806	1	38380.03799	88.10127925	1.625	0.02145	[illegible]		203.4644056	62.01595081	0.183573446
42	1/28/05 1:54	88.044	38380.07958	13.027	38380.08333	728.960511	1	38380.07965	88.09447429	1.66666	0.021999912	[illegible]		203.4474158	62.01077234	0.178394975
43	1/28/05 2:54	88.06	38380.12125	13.026	38380.125	499.501234	1	38380.12132	88.10421487	1.70833	0.022549956	[illegible]		203.468646	62.01724329	0.184865922
44	1/28/05 3:54	88.068	38380.16292	13.023	38380.16667	194.943276	1	38380.16299	88.09961619	1.75	0.0231	[illegible]		203.4567524	62.01361813	0.181240763
45	1/28/05 4:54	88.089	38380.20458	13.021	38380.20833	-89.641654	1	38380.20465	88.10554817	1.79166	0.023649912	[illegible]		203.469185	62.01740758	0.185030213
46	1/28/05 5:54	88.097	38380.24625	13.024	38380.25	-271.54177	1	38380.24632	88.10182892	1.83333	0.024199956	[illegible]		203.4593229	62.01440162	0.182024256
47	1/28/05 6:54	88.102	38380.28792	13.027	38380.29167	-301.342051	1	38380.28799	88.09829995	1.875	0.02475	[illegible]		203.4499004	62.01152964	0.179152268
48	1/28/05 7:54	88.111	38380.32958	13.032	38380.33333	-174.639387	1	38380.32965	88.10502428	1.91666	0.025299912	[illegible]		203.4641632	62.01587696	0.183499589
49	1/28/05 8:54	88.11	38380.37125	13.033	38380.375	67.897257	1	38380.37132	88.10505908	1.95833	0.025849956	[illegible]		203.4629731	62.0155142	0.18313683
50	1/28/05 9:54	88.096	38380.41292	13.037	38380.41667	351.73347	1	38380.41299	88.09821128	2	0.0264	[illegible]		203.4458841	62.01030546	0.177928095
51	1/28/05 10:54	88.096	38380.45458	13.034	38380.45833	588.002951	1	38380.45465	88.1043076	2.04166	0.026949912	[illegible]		203.4586963	62.01421062	0.181833251
52	1/28/05 11:54	88.091	38380.49625	13.019	38380.5	696.627364	1	38380.49632	88.09799601	2.08333	0.027499956	[illegible]		203.4428459	62.00937943	0.177002061
53	1/28/05 12:54	88.103	38380.53792	13.003	38380.54167	627.526766	1	38380.53799	88.10466607	2.125	0.02805	[illegible]		203.4570293	62.01370253	0.181325167
54	1/28/05 13:54	88.103	38380.57958	12.993	38380.58333	374.8147	1	38380.57965	88.09768108	2.16666	0.028599912	[illegible]		203.4400395	62.00852404	0.176146669
55	1/28/05 14:54	88.111	38380.62125	12.995	38380.625	-19.662433	1	38380.62132	88.10198956	2.20833	0.029149956	[illegible]		203.4482595	62.01102949	0.178652122
56	1/28/05 15:54	88.111	38380.66292	13	38380.66667	-474.753691	1	38380.66299	88.09807212	2.25	0.0297	[illegible]		203.4379396	62.00788399	0.175506622
57	1/28/05 16:54	88.111	38380.70458	13.006	38380.70833	-888.88607	1	38380.70465	88.09448108	2.29166	0.030249912	[illegible]		203.428374	62.00496839	0.172591027
58	1/28/05 17:54	88.118	38380.74625	13.016	38380.75	-1165.119482	1	38380.74632	88.10174291	2.33333	0.030799956	[illegible]		203.4438782	62.00969408	0.177316716
59	1/28/05 18:54	88.11	38380.78792	13.028	38380.79167	-1236.10367	1	38380.78799	88.09836956	2.375	0.03135	[illegible]		203.4348152	62.00693167	0.174554304
60	1/28/05 19:54	88.11	38380.82958	13.04	38380.83333	-1082.185348	1	38380.82965	88.1077581	2.41666	0.031899912	[illegible]		203.4552324	62.01315484	0.18077747

Information Only

WQSP-2 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElapsedDays	DetrendVariable	DetrendedPRES		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38378.41299	88.03	38378.41292	13.067	38378.41667	776.264521	=IF(MINUTE(A2)=54,1,0)	38378.41299	88.03	=H2-H2	=J2*0.0132	=H2-K2		=L2*2.31	=N2*0.3048	=O2-O148
3	38378.45465	88.031	38378.45458	13.069	38378.45833	848.145149	=IF(MINUTE(A3)=54,1,0)	38378.45465	88.03	=H3-H2	=J3*0.0132	=H3-K3		=L3*2.31	=N3*0.3048	=O3-O148
4	38378.49632	88.037	38378.49625	13.057	38378.5	721.593789	=IF(MINUTE(A4)=54,1,0)	38378.49632	88.03	=H4-H2	=J4*0.0132	=H4-K4		=L4*2.31	=N4*0.3048	=O4-O148
5	38378.53799	88.046	38378.53792	13.044	38378.54167	392.89928	=IF(MINUTE(A5)=54,1,0)	38378.53799	88.03	=H5-H2	=J5*0.0132	=H5-K5		=L5*2.31	=N5*0.3048	=O5-O148
6	38378.57965	88.054	38378.57958	13.034	38378.58333	-88.979662	=IF(MINUTE(A6)=54,1,0)	38378.57965	88.03	=H6-H2	=J6*0.0132	=H6-K6		=L6*2.31	=N6*0.3048	=O6-O148
7	38378.62132	88.069	38378.62125	13.034	38378.625	-631.899234	=IF(MINUTE(A7)=54,1,0)	38378.62132	88.03	=H7-H2	=J7*0.0132	=H7-K7		=L7*2.31	=N7*0.3048	=O7-O148
8	38378.66299	88.076	38378.66292	13.035	38378.66667	-1121.756365	=IF(MINUTE(A8)=54,1,0)	38378.66299	88.03	=H8-H2	=J8*0.0132	=H8-K8		=L8*2.31	=N8*0.3048	=O8-O148
9	38378.70465	88.082	38378.70458	13.041	38378.70833	-1450.430462	=IF(MINUTE(A9)=54,1,0)	38378.70465	88.0785396168179	=H9-H2	=J9*0.0132	=H9-K9		=L9*2.31	=N9*0.3048	=O9-O148
10	38378.74632	88.082	38378.74625	13.052	38378.75	-1543.26218	=IF(MINUTE(A10)=54,1,0)	38378.74632	88.0826496863735	=H10-H2	=J10*0.0132	=H10-K10		=L10*2.31	=N10*0.3048	=O10-O148
11	38378.78799	88.089	38378.78792	13.044	38378.79167	-1378.601878	=IF(MINUTE(A11)=54,1,0)	38378.78799	88.0883067696827	=H11-H2	=J11*0.0132	=H11-K11		=L11*2.31	=N11*0.3048	=O11-O148
12	38378.82965	88.075	38378.82958	13.053	38378.83333	-993.848319	=IF(MINUTE(A12)=54,1,0)	38378.82965	88.0873396480745	=H12-H2	=J12*0.0132	=H12-K12		=L12*2.31	=N12*0.3048	=O12-O148
13	38378.87132	88.059	38378.87125	13.059	38378.875	-476.069445	=IF(MINUTE(A13)=54,1,0)	38378.87132	88.0880596681938	=H13-H2	=J13*0.0132	=H13-K13		=L13*2.31	=N13*0.3048	=O13-O148
14	38378.91299	88.032	38378.91292	13.068	38378.91667	60.31664	=IF(MINUTE(A14)=54,1,0)	38378.91299	88.082053393163	=H14-H2	=J14*0.0132	=H14-K14		=L14*2.31	=N14*0.3048	=O14-O148
15	38378.95465	88.024	38378.95458	13.059	38378.95833	502.620348	=IF(MINUTE(A15)=54,1,0)	38378.95465	88.085322332995	=H15-H2	=J15*0.0132	=H15-K15		=L15*2.31	=N15*0.3048	=O15-O148
16	38378.99632	88.024	38378.99625	13.045	38379	767.719931	=IF(MINUTE(A16)=54,1,0)	38378.99632	88.0879267376843	=H16-H2	=J16*0.0132	=H16-K16		=L16*2.31	=N16*0.3048	=O16-O148
17	38379.03799	88.031	38379.03792	13.04	38379.04167	821.256632	=IF(MINUTE(A17)=54,1,0)	38379.03799	88.0955941976597	=H17-H2	=J17*0.0132	=H17-K17		=L17*2.31	=N17*0.3048	=O17-O148
18	38379.07965	88.023	38379.07958	13.041	38379.08333	683.475992	=IF(MINUTE(A18)=54,1,0)	38379.07965	88.0841915989962	=H18-H2	=J18*0.0132	=H18-K18		=L18*2.31	=N18*0.3048	=O18-O148
19	38379.12132	88.037	38379.12125	13.037	38379.125	420.834269	=IF(MINUTE(A19)=54,1,0)	38379.12132	88.0866763897992	=H19-H2	=J19*0.0132	=H19-K19		=L19*2.31	=N19*0.3048	=O19-O148
20	38379.16299	88.052	38379.16292	13.04	38379.16667	126.250731	=IF(MINUTE(A20)=54,1,0)	38379.16299	88.0902735910503	=H20-H2	=J20*0.0132	=H20-K20		=L20*2.31	=N20*0.3048	=O20-O148
21	38379.20465	88.067	38379.20458	13.04	38379.20833	-106.422022	=IF(MINUTE(A21)=54,1,0)	38379.20465	88.0912496236925	=H21-H2	=J21*0.0132	=H21-K21		=L21*2.31	=N21*0.3048	=O21-O148
22	38379.24632	88.08	38379.24625	13.036	38379.25	-207.064692	=IF(MINUTE(A22)=54,1,0)	38379.24632	88.0891350386308	=H22-H2	=J22*0.0132	=H22-K22		=L22*2.31	=N22*0.3048	=O22-O148
23	38379.28799	88.083	38379.28792	13.035	38379.29167	-147.05034	=IF(MINUTE(A23)=54,1,0)	38379.28799	88.0824727398076	=H23-H2	=J23*0.0132	=H23-K23		=L23*2.31	=N23*0.3048	=O23-O148
24	38379.32965	88.091	38379.32958	13.045	38379.33333	54.001703	=IF(MINUTE(A24)=54,1,0)	38379.32965	88.092363627934	=H24-H2	=J24*0.0132	=H24-K24		=L24*2.31	=N24*0.3048	=O24-O148
25	38379.37132	88.076	38379.37125	13.049	38379.375	333.831042	=IF(MINUTE(A25)=54,1,0)	38379.37132	88.082289526849	=H25-H2	=J25*0.0132	=H25-K25		=L25*2.31	=N25*0.3048	=O25-O148
26	38379.41299	88.074	38379.41292	13.054	38379.41667	603.945483	=IF(MINUTE(A26)=54,1,0)	38379.41299	88.0901358589187	=H26-H2	=J26*0.0132	=H26-K26		=L26*2.31	=N26*0.3048	=O26-O148
27	38379.45465	88.058	38379.45458	13.051	38379.45833	772.804567	=IF(MINUTE(A27)=54,1,0)	38379.45465	88.0812613097556	=H27-H2	=J27*0.0132	=H27-K27		=L27*2.31	=N27*0.3048	=O27-O148
28	38379.49632	88.06	38379.49625	13.04	38379.5	770.186627	=IF(MINUTE(A28)=54,1,0)	38379.49632	88.0835326282161	=H28-H2	=J28*0.0132	=H28-K28		=L28*2.31	=N28*0.3048	=O28-O148
29	38379.53799	88.067	38379.53792	13.025	38379.54167	566.799028	=IF(MINUTE(A29)=54,1,0)	38379.53799	88.0840887018746	=H29-H2	=J29*0.0132	=H29-K29		=L29*2.31	=N29*0.3048	=O29-O148
30	38379.57965	88.075	38379.57958	13.014	38379.58333	184.141667	=IF(MINUTE(A30)=54,1,0)	38379.57965	88.0822495207093	=H30-H2	=J30*0.0132	=H30-K30		=L30*2.31	=N30*0.3048	=O30-O148
31	38379.62132	88.082	38379.62125	13.016	38379.625	-308.240813	=IF(MINUTE(A31)=54,1,0)	38379.62132	88.0829956520428	=H31-H2	=J31*0.0132	=H31-K31		=L31*2.31	=N31*0.3048	=O31-O148
32	38379.66299	88.088	38379.66292	13.009	38379.66667	-808.027709	=IF(MINUTE(A32)=54,1,0)	38379.66299	88.0763143357968	=H32-H2	=J32*0.0132	=H32-K32		=L32*2.31	=N32*0.3048	=O32-O148
33	38379.70465	88.095	38379.70458	13.025	38379.70833	-1204.614799	=IF(MINUTE(A33)=54,1,0)	38379.70465	88.0842244493849	=H33-H2	=J33*0.0132	=H33-K33		=L33*2.31	=N33*0.3048	=O33-O148
34	38379.74632	88.109	38379.74625	13.022	38379.75	-1406.855237	=IF(MINUTE(A34)=54,1,0)	38379.74632	88.0923924189166	=H34-H2	=J34*0.0132	=H34-K34		=L34*2.31	=N34*0.3048	=O34-O148
35	38379.78799	88.102	38379.78792	13.03	38379.79167	-1366.759324	=IF(MINUTE(A35)=54,1,0)	38379.78799	88.0891263353718	=H35-H2	=J35*0.0132	=H35-K35		=L35*2.31	=N35*0.3048	=O35-O148
36	38379.82965	88.102	38379.82958	13.029	38379.83333	-1092.524889	=IF(MINUTE(A36)=54,1,0)	38379.82965	88.0940163998853	=H36-H2	=J36*0.0132	=H36-K36		=L36*2.31	=N36*0.3048	=O36-O148
37	38379.87132	88.095	38379.87125	13.029	38379.875	-646.969547	=IF(MINUTE(A37)=54,1,0)	38379.87132	88.0960636837048	=H37-H2	=J37*0.0132	=H37-K37		=L37*2.31	=N37*0.3048	=O37-O148
38	38379.91299	88.08	38379.91292	13.031	38379.91667	-131.513481	=IF(MINUTE(A38)=54,1,0)	38379.91299	88.0957697130202	=H38-H2	=J38*0.0132	=H38-K38		=L38*2.31	=N38*0.3048	=O38-O148
39	38379.95465	88.067	38379.95458	13.033	38379.95833	339.934896	=IF(MINUTE(A39)=54,1,0)	38379.95465	88.098260150162	=H39-H2	=J39*0.0132	=H39-K39		=L39*2.31	=N39*0.3048	=O39-O148
40	38379.99632	88.058	38379.99625	13.031	38380	669.905467	=IF(MINUTE(A40)=54,1,0)	38379.99632	88.1012219529288	=H40-H2	=J40*0.0132	=H40-K40		=L40*2.31	=N40*0.3048	=O40-O148
41	38380.03799	88.05	38380.03792	13.031	38380.04167	801.137806	=IF(MINUTE(A41)=54,1,0)	38380.03799	88.1012792450095	=H41-H2	=J41*0.0132	=H41-K41		=L41*2.31	=N41*0.3048	=O41-O148
42	38380.07965	88.044	38380.07958	13.027	38380.08333	728.960511	=IF(MINUTE(A42)=54,1,0)	38380.07965	88.094474292924	=H42-H2	=J42*0.0132	=H42-K42		=L42*2.31	=N42*0.3048	=O42-O148
43	38380.12132	88.06	38380.12125	13.026	38380.125	499.501234	=IF(MINUTE(A43)=54,1,0)	38380.12132	88.1042148737274	=H43-H2	=J43*0.0132	=H43-K43		=L43*2.31	=N43*0.3048	=O43-O148
44	38380.16299	88.068	38380.16292	13.023	38380.16667	194.943276	=IF(MINUTE(A44)=54,1,0)	38380.16299	88.0996161877256	=H44-H2	=J44*0.0132	=H44-K44		=L44*2.31	=N44*0.3048	=O44-O148
45	38380.20465	88.089	38380.20458	13.021	38380.20833	-89.641654	=IF(MINUTE(A45)=54,1,0)	38380.20465	88.1055481693631	=H45-H2	=J45*0.0132	=H45-K45		=L45*2.31	=N45*0.3048	=O45-O148
46	38380.24632	88.097	38380.24625	13.024	38380.25	-271.54177	=IF(MINUTE(A46)=54,1,0)	38380.24632	88.101828921583	=H46-H2	=J46*0.0132	=H46-K46		=L46*2.31	=N46*0.3048	=O46-O148
47	38380.28799	88.102	38380.28792	13.027	38380.29167	-301.342051	=IF(MINUTE(A47)=54,1,0)	38380.28799	88.0982999472318	=H47-H2	=J47*0.0132	=H47-K47		=L47*2.31	=N47*0.3048	=O47-O148
48	38380.32965	88.111	38380.32958	13.032	38380.33333	-174.639387	=IF(MINUTE(A48)=54,1,0)	38380.32965	88.1050242595469	=H48-H2	=J48*0.0132	=H48-K48		=L48*2.31	=N48*0.3048	=O48-O148
49	38380.37132	88.11	38380.37125	13.033	38380.375	67.897257	=IF(MINUTE(A49)=54,1,0)	38380.37132	88.105059084306	=H49-H2	=J49*0.0132	=H49-K49		=L49*2.31	=N49*0.3048	=O49-O148
50	38380.41299	88.096	38380.41292	13.037	38380.41667	351.73347	=IF(MINUTE(A50)=54,1,0)	38380.41299	88.0982112627978	=H50-H2	=J50*0.0132	=H50-K50		=L50*2.31	=N50*0.3048	=O50-O148
51	38380.45465	88.096	38380.45458	13.034	38380.45833	588.002951	=IF(MINUTE(A51)=54,1,0)	38380.45465	88.1043075975062	=H51-H2	=J51*0.0132	=H51-K51		=L51*2.31	=N51*0.3048	=O51-O148
52	38380.49632	88.091	38380.49625	13.019	38380.5	696.627364	=IF(MINUTE(A52)=54,1,0)	38380.49632	88.0979960140497	=H52-H2	=J52*0.0132	=H52-K52		=L52*2.31	=N52*0.3048	=O52-O148
53	38380.53799	88.103	38380.53792	13.003	38380.54167	627.526766	=IF(MINUTE(A53)=54,1,0)	38380.53799	88.1046860653254	=H53-H2	=J53*0.0132	=H53-K53		=L53*2.31	=N53*0.3048	=O53-O148
54	38380.57965	88.103	38380.57958	12.993	38380.58333	374.8147	=IF(MINUTE(A54)=54,1,0)	38380.57965	88.0978810764584	=H54-H2	=J54*0.0132	=H54-K54		=L54*2.31	=N54*0.3048	=O54-O148
55	38380.62132	88.111	38380.62125	12.995	38380.625	-19.662433	=IF(MINUTE(A55)=54,1,0)	38380.62132	88.1019895569232	=H55-H2	=J55*0.0132	=H55-K55		=L55*2.31	=N55*0.3048	=O55-O148
56	38380.66299	88.111	38380.66292	13	38380.66667	-474.753691	=IF(MINUTE(A56)=54,1,0)	38380.66299	88.0980721200629	=H56-H2	=J56*0.0132	=H56-K56		=L56*2.31	=N56*0.3048	=O56-O148
57	38380.70465	88.111	38380.70458	13.006	38380.70833	-888.88607	=IF(MINUTE(A57)=54,1,0)	38380.70485	88.0944810790296	=H57-H2	=J57*0.0132	=H57-K57		=L57*2.31	=N57*0.3048	=O57-O148
58	38380.74632	88.118	38380.74625	13.016	38380.75	-1165.119482	=IF(MINUTE(A58)=54,1,0)	38380.74632	88.1017429112728	=H58-H2	=J58*0.0132	=H58-K58		=L58*2.31	=N58*0.3048	=O58-O148
59	38380.78799	88.11	38380.78792	13.028	38380.79167	-1236.10367	=IF(MINUTE(A59)=54,1,0)	38380.78799	88.0983695647613	=H59-H2	=J59*0.0132	=H59-K59		=L59*2.31	=N59*0.3048	=O59-O148
60	38380.82965	88.11	38380.82958	13.04	38380.83333	-1082.185348	=IF(MINUTE(A60)=54,1,0)	38380.82965	88.1077580966306	=H60-H2	=J60*0.0132	=H60-K60		=L60*2.31	=N60*0.3048	=O60-O148

Information Only

WQSP-3

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElpasedDays	DetrendVariable	DetrendedPSI		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	1/26/05 11:32	90.688	38378.48583	13.061	38378.47917	811.158056	1	38378.48118	90.688	0	0	90.688		209.48928	63.85233254	0.21685791
3	1/26/05 12:32	90.651	38378.5275	13.046	38378.52083	580.643264	1	38378.52285	90.688	0.04167	0.00062505	90.68737495		209.4878361	63.85189245	0.21641782
4	1/26/05 13:32	90.614	38378.56917	13.037	38378.5625	166.160449	1	38378.56451	90.688	0.08333	0.00124995	90.68675005		209.4863926	63.85145247	0.215977836
5	1/26/05 14:32	90.582	38378.61083	13.035	38378.60417	-359.736864	1	38378.60618	90.688	0.125	0.001875	90.686125		209.4849488	63.85101238	0.215537745
6	1/26/05 15:32	90.552	38378.6525	13.037	38378.64583	-890.701721	1	38378.64785	90.688	0.16667	0.00250005	90.68549995		209.4835049	63.85057229	0.215097655
7	1/26/05 16:32	90.536	38378.69417	13.039	38378.6875	-1311.976332	1	38378.68951	90.688	0.20833	0.00312495	90.68437505		209.4820614	63.8501323	0.214657671
8	1/26/05 17:32	90.516	38378.73583	13.049	38378.72917	-1529.068153	1	38378.73118	90.688	0.25	0.00375	90.68425		209.4806175	63.84969221	0.21421758
9	1/26/05 18:32	90.499	38378.7775	13.044	38378.77083	-1492.129039	1	38378.77285	90.688	0.29167	0.00437505	90.68362495		209.4791736	63.84925212	0.21377749
10	1/26/05 19:32	90.492	38378.81917	13.054	38378.8125	-1209.24885	1	38378.81451	90.688	0.33333	0.00499995	90.68300005		209.4777301	63.84881214	0.213337506
11	1/26/05 20:32	90.478	38378.86083	13.059	38378.85417	-744.750325	1	38378.85618	90.688	0.375	0.005625	90.682375		209.4762863	63.84837205	0.212897415
12	1/26/05 21:32	90.465	38378.9025	13.068	38378.89583	-202.766391	1	38378.89785	90.688	0.41667	0.00625005	90.68174995		209.4748424	63.84793196	0.212457325
13	1/26/05 22:32	90.449	38378.94417	13.062	38378.9375	299.399317	1	38378.93951	90.688	0.45833	0.00687495	90.68112505		209.4733989	63.84749197	0.212017341
14	1/26/05 23:32	90.431	38378.98583	13.05	38378.97917	660.751107	1	38378.98118	90.688	0.5	0.0075	90.6808		209.471955	63.84705188	0.21157725
15	1/27/05 0:32	90.418	38379.0275	13.04	38379.02083	820.915835	1	38379.02285	90.688	0.54167	0.00812505	90.67987495		209.4705111	63.84661179	0.21113716
16	1/27/05 1:32	90.41	38379.06917	13.042	38379.0625	773.023025	1	38379.06451	90.688	0.58333	0.00874995	90.67925005		209.4690676	63.84617181	0.210697176
17	1/27/05 2:32	90.401	38379.11083	13.036	38379.10417	562.288583	1	38379.10618	90.688	0.625	0.009375	90.678625		209.4676238	63.84573172	0.210257085
18	1/27/05 3:32	90.394	38379.1525	13.039	38379.14583	271.381806	1	38379.14785	90.688	0.66667	0.01000005	90.67799995		209.4661799	63.84529163	0.209816995
19	1/27/05 4:32	90.394	38379.19417	13.04	38379.1875	-3.017699	1	38379.18951	90.688	0.70833	0.01062495	90.67737505		209.4647364	63.84485164	0.209377011
20	1/27/05 5:32	90.393	38379.23583	13.037	38379.22917	-176.148139	1	38379.23118	90.688	0.75	0.01125	90.67675		209.4632925	63.84441155	0.20893692
21	1/27/05 6:32	90.403	38379.2775	13.036	38379.27083	-197.038082	1	38379.27285	90.688	0.79167	0.01187505	90.67612495		209.4618486	63.84397146	0.20849683
22	1/27/05 7:32	90.395	38379.31917	13.045	38379.3125	-81.115026	1	38379.31451	90.688	0.83333	0.01249995	90.67550005		209.4604051	63.84353148	0.208056846
23	1/27/05 8:32	90.403	38379.36083	13.049	38379.35417	189.236352	1	38379.35618	90.688	0.875	0.013125	90.674875		209.4589613	63.84309139	0.207616755
24	1/27/05 9:32	90.403	38379.4025	13.05	38379.39583	476.04706	1	38379.39785	90.688	0.91667	0.01375005	90.67424995		209.4575174	63.8426513	0.207176665
25	1/27/05 10:32	90.396	38379.44417	13.05	38379.4375	706.187373	1	38379.43951	90.688	0.95833	0.01437495	90.67362505		209.4560739	63.84221131	0.206736681
26	1/27/05 11:32	90.394	38379.48583	13.042	38379.47917	795.893286	1	38379.48118	90.39552026	1	0.015	90.38052026		208.7790018	63.63583975	0.000365118
27	1/27/05 12:32	90.388	38379.5275	13.029	38379.52083	693.468357	1	38379.52285	90.390097	1.04167	0.01562505	90.37447195		208.7650302	63.6315812	-0.003893429
28	1/27/05 13:32	90.395	38379.56917	13.014	38379.5625	394.536083	1	38379.56451	90.39733416	1.08333	0.01624995	90.38108421		208.7803045	63.63623682	0.000762185
29	1/27/05 14:32	90.394	38379.61083	13.014	38379.60417	-54.215036	1	38379.60618	90.39495809	1.125	0.016875	90.37808309		208.7733719	63.63412377	-0.001350868
30	1/27/05 15:32	90.395	38379.6525	13.012	38379.64583	-564.253906	1	38379.64785	90.39390421	1.16667	0.01750005	90.37640416		208.7694936	63.63294165	-0.00253298
31	1/27/05 16:32	90.403	38379.69417	13.018	38379.6875	-1025.689451	1	38379.68951	90.39841543	1.20833	0.01812495	90.36028048		208.778471	63.63567796	0.000203328
32	1/27/05 17:32	90.403	38379.73583	13.021	38379.72917	-1334.257456	1	38379.73118	90.39532568	1.25	0.01875	90.37657569		208.7698899	63.63306243	-0.002412207
33	1/27/05 18:32	90.411	38379.7775	13.031	38379.77083	-1417.961172	1	38379.77285	90.40014199	1.29167	0.01937505	90.38076694		208.7795716	63.63601343	0.0005388
34	1/27/05 19:32	90.411	38379.81917	13.031	38379.8125	-1256.139825	1	38379.81451	90.39624015	1.33333	0.01999995	90.3782402		208.7737349	63.63423439	-0.001240249
35	1/27/05 20:32	90.409	38379.86083	13.028	38379.85417	-885.455888	1	38379.85618	90.39487925	1.375	0.020625	90.37425425		208.7645273	63.63142793	-0.004046705
36	1/27/05 21:32	90.411	38379.9025	13.031	38379.89583	-390.807187	1	38379.89785	90.39804299	1.41667	0.02125005	90.37679294		208.7703917	63.63321539	-0.002259244
37	1/27/05 22:32	90.409	38379.94417	13.033	38379.9375	116.510817	1	38379.93951	90.39899672	1.45833	0.02187495	90.37712177		208.7711513	63.63344691	-0.002027721
38	1/27/05 23:32	90.403	38379.98583	13.033	38379.97917	527.337872	1	38379.98118	90.39843843	1.5	0.0225	90.37843843		208.7684178	63.63261374	-0.002860896
39	1/28/05 0:32	90.395	38380.0275	13.032	38380.02083	761.937838	1	38380.02285	90.39728734	1.54167	0.02312505	90.37416229		208.7643149	63.63136318	-0.004111452
40	1/28/05 1:32	90.387	38380.06917	13.028	38380.0625	788.665273	1	38380.06451	90.39503589	1.58333	0.02374995	90.37128674		208.7576701	63.62933783	-0.0061368
41	1/28/05 2:32	90.38	38380.11083	13.028	38380.10417	629.354864	1	38380.10618	90.39174292	1.625	0.024375	90.36736792		208.7486199	63.62657934	-0.008895293
42	1/28/05 3:32	90.394	38380.1525	13.025	38380.14583	350.667487	1	38380.14785	90.40702589	1.66667	0.02500005	90.38202584		208.7824792	63.63689967	0.001425032
43	1/28/05 4:32	90.386	38380.19417	13.022	38380.1875	44.41435	1	38380.18951	90.39719603	1.70833	0.02562495	90.37157108		208.7583292	63.62953874	-0.005935895
44	1/28/05 5:32	90.394	38380.23583	13.026	38380.22917	-197.487389	1	38380.23118	90.40110956	1.75	0.02625	90.37485956		208.7659256	63.63185412	-0.003620516
45	1/28/05 6:32	90.394	38380.2775	13.027	38380.27083	-306.844223	1	38380.27285	90.39648395	1.79167	0.02687505	90.36960895		208.7537966	63.62815719	-0.007317442
46	1/28/05 7:32	90.408	38380.31917	13.03	38380.3125	-255.987081	1	38380.31451	90.40569398	1.83333	0.02749995	90.37819403		208.7736282	63.63420188	-0.001272753
47	1/28/05 8:32	90.409	38380.36083	13.034	38380.35417	-63.787221	1	38380.35618	90.40360091	1.875	0.028125	90.37547591		208.7673493	63.63228808	-0.003186553
48	1/28/05 9:32	90.411	38380.4025	13.037	38380.39583	210.137803	1	38380.39785	90.4037201	1.91667	0.02875005	90.37487005		208.7661808	63.63193191	-0.003542719
49	1/28/05 10:32	90.411	38380.44417	13.035	38380.4375	481.29629	1	38380.43951	90.40383725	1.95833	0.02937495	90.37446225		208.7650079	63.63157441	-0.003900219
50	1/28/05 11:32	90.411	38380.48583	13.025	38380.47917	662.31546	1	38380.48118	90.40411284	2	0.03	90.37411284		208.7642007	63.63132836	-0.004148275
51	1/28/05 12:32	90.417	38380.5275	13.005	38380.52083	685.795951	1	38380.52285	90.40987514	2.04167	0.03062505	90.37925009		208.7760677	63.63494544	-0.000529196
52	1/28/05 13:32	90.424	38380.56917	12.995	38380.5625	522.584622	1	38380.56451	90.41569708	2.08333	0.03124995	90.38444713		208.7880729	63.63860461	0.003129975
53	1/28/05 14:32	90.418	38380.61083	12.994	38380.60417	190.968075	1	38380.60618	90.40891049	2.125	0.031875	90.37703549		208.770952	63.63338617	-0.002088468
54	1/28/05 15:32	90.424	38380.6525	12.997	38380.64583	-245.778272	1	38380.64785	90.41432677	2.16667	0.03250005	90.38182672		208.7820197	63.63675961	0.001284975
55	1/28/05 16:32	90.424	38380.69417	13.004	38380.6875	-693.416983	1	38380.68951	90.41334409	2.20833	0.03312495	90.38021914		208.7783062	63.63562773	0.0001531
56	1/28/05 17:32	90.434	38380.73583	13.013	38380.72917	-1049.404244	1	38380.73118	90.42194749	2.25	0.03375	90.38819749		208.7967362	63.64124519	0.00577056
57	1/28/05 18:32	90.432	38380.7775	13.025	38380.77083	-1228.752397	1	38380.77285	90.4181871	2.29167	0.03437505	90.38381205		208.7866058	63.63815746	0.002682826
58	1/28/05 19:32	90.432	38380.81917	13.036	38380.8125	-1186.361785	1	38380.81451	90.41698476	2.33333	0.03499995	90.38198481		208.7823849	63.63687092	0.001396285
59	1/28/05 20:32	90.433	38380.86083	13.046	38380.85417	-929.55041	1	38380.85618	90.41868155	2.375	0.035625	90.38305655		208.7848606	63.63762552	0.002150885
60	1/28/05 21:32	90.432	38380.9025	13.051	38380.89583	-516.91561	1	38380.89785	90.42040218	2.41667	0.03625005	90.38415213		208.7873914	63.6383969	0.002922268

Information Only

WQSP-3 Formulas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Time	WL	MatchedBP-Time	Matched-BP	MatchET-Time	Matched-ET	FILTER	BAROCorrect-Time	Corrected-Pressure	ElpasedDays	DetrendVariable	Detrended-P		Freshwater (ft of H20)	Meters of H20	Change in Meters
2	38378.48118	90.688	38378.48583	13.061	38378.47917	811.158056	=IF(MINUTE(A2)=32,1,0)	38378.48118	90.688	=H2-H2	=J2*0.015	=H2-K2		=L2*2.31	=N2*0.3048	=O2-O147
3	38378.52285	90.651	38378.5275	13.046	38378.52083	580.643264	=IF(MINUTE(A3)=32,1,0)	38378.52285	90.688	=H3-H2	=J3*0.015	=H3-K3		=L3*2.31	=N3*0.3048	=O3-O147
4	38378.56451	90.614	38378.56917	13.037	38378.5625	166.160449	=IF(MINUTE(A4)=32,1,0)	38378.56451	90.688	=H4-H2	=J4*0.015	=H4-K4		=L4*2.31	=N4*0.3048	=O4-O147
5	38378.60618	90.582	38378.61083	13.035	38378.60417	-359.736864	=IF(MINUTE(A5)=32,1,0)	38378.60618	90.688	=H5-H2	=J5*0.015	=H5-K5		=L5*2.31	=N5*0.3048	=O5-O147
6	38378.64785	90.552	38378.6525	13.037	38378.64583	-890.701721	=IF(MINUTE(A6)=32,1,0)	38378.64785	90.688	=H6-H2	=J6*0.015	=H6-K6		=L6*2.31	=N6*0.3048	=O6-O147
7	38378.68951	90.536	38378.69417	13.039	38378.6875	-1311.976332	=IF(MINUTE(A7)=32,1,0)	38378.68951	90.688	=H7-H2	=J7*0.015	=H7-K7		=L7*2.31	=N7*0.3048	=O7-O147
8	38378.73118	90.516	38378.73583	13.049	38378.72917	-1529.068153	=IF(MINUTE(A8)=32,1,0)	38378.73118	90.688	=H8-H2	=J8*0.015	=H8-K8		=L8*2.31	=N8*0.3048	=O8-O147
9	38378.77285	90.499	38378.7775	13.044	38378.77083	-1492.129039	=IF(MINUTE(A9)=32,1,0)	38378.77285	90.688	=H9-H2	=J9*0.015	=H9-K9		=L9*2.31	=N9*0.3048	=O9-O147
10	38378.81451	90.492	38378.81917	13.054	38378.8125	-1209.24885	=IF(MINUTE(A10)=32,1,0)	38378.81451	90.688	=H10-H2	=J10*0.015	=H10-K10		=L10*2.31	=N10*0.3048	=O10-O147
11	38378.85618	90.478	38378.86083	13.059	38378.85417	-744.750325	=IF(MINUTE(A11)=32,1,0)	38378.85618	90.688	=H11-H2	=J11*0.015	=H11-K11		=L11*2.31	=N11*0.3048	=O11-O147
12	38378.89785	90.465	38378.9025	13.068	38378.89583	-202.766391	=IF(MINUTE(A12)=32,1,0)	38378.89785	90.688	=H12-H2	=J12*0.015	=H12-K12		=L12*2.31	=N12*0.3048	=O12-O147
13	38378.93951	90.449	38378.94417	13.062	38378.9375	299.399317	=IF(MINUTE(A13)=32,1,0)	38378.93951	90.688	=H13-H2	=J13*0.015	=H13-K13		=L13*2.31	=N13*0.3048	=O13-O147
14	38378.98118	90.431	38378.98583	13.05	38378.97917	660.751107	=IF(MINUTE(A14)=32,1,0)	38378.98118	90.688	=H14-H2	=J14*0.015	=H14-K14		=L14*2.31	=N14*0.3048	=O14-O147
15	38379.02285	90.418	38379.0275	13.04	38379.02083	820.915835	=IF(MINUTE(A15)=32,1,0)	38379.02285	90.688	=H15-H2	=J15*0.015	=H15-K15		=L15*2.31	=N15*0.3048	=O15-O147
16	38379.06451	90.41	38379.06917	13.042	38379.0625	773.023025	=IF(MINUTE(A16)=32,1,0)	38379.06451	90.688	=H16-H2	=J16*0.015	=H16-K16		=L16*2.31	=N16*0.3048	=O16-O147
17	38379.10618	90.401	38379.11083	13.036	38379.10417	562.288583	=IF(MINUTE(A17)=32,1,0)	38379.10618	90.688	=H17-H2	=J17*0.015	=H17-K17		=L17*2.31	=N17*0.3048	=O17-O147
18	38379.14785	90.394	38379.1525	13.039	38379.14583	271.381806	=IF(MINUTE(A18)=32,1,0)	38379.14785	90.688	=H18-H2	=J18*0.015	=H18-K18		=L18*2.31	=N18*0.3048	=O18-O147
19	38379.18951	90.394	38379.19417	13.04	38379.1875	-3.017699	=IF(MINUTE(A19)=32,1,0)	38379.18951	90.688	=H19-H2	=J19*0.015	=H19-K19		=L19*2.31	=N19*0.3048	=O19-O147
20	38379.23118	90.393	38379.23583	13.037	38379.22917	-176.148139	=IF(MINUTE(A20)=32,1,0)	38379.23118	90.688	=H20-H2	=J20*0.015	=H20-K20		=L20*2.31	=N20*0.3048	=O20-O147
21	38379.27285	90.403	38379.2775	13.036	38379.27083	-197.038082	=IF(MINUTE(A21)=32,1,0)	38379.27285	90.688	=H21-H2	=J21*0.015	=H21-K21		=L21*2.31	=N21*0.3048	=O21-O147
22	38379.31451	90.395	38379.31917	13.045	38379.3125	-61.115026	=IF(MINUTE(A22)=32,1,0)	38379.31451	90.688	=H22-H2	=J22*0.015	=H22-K22		=L22*2.31	=N22*0.3048	=O22-O147
23	38379.35618	90.403	38379.36083	13.049	38379.35417	189.236352	=IF(MINUTE(A23)=32,1,0)	38379.35618	90.688	=H23-H2	=J23*0.015	=H23-K23		=L23*2.31	=N23*0.3048	=O23-O147
24	38379.39785	90.403	38379.4025	13.05	38379.39583	476.04706	=IF(MINUTE(A24)=32,1,0)	38379.39785	90.688	=H24-H2	=J24*0.015	=H24-K24		=L24*2.31	=N24*0.3048	=O24-O147
25	38379.43951	90.396	38379.44417	13.05	38379.4375	706.187373	=IF(MINUTE(A25)=32,1,0)	38379.43951	90.688	=H25-H2	=J25*0.015	=H25-K25		=L25*2.31	=N25*0.3048	=O25-O147
26	38379.48118	90.394	38379.48583	13.042	38379.47917	795.893286	=IF(MINUTE(A26)=32,1,0)	38379.48118	90.3955202640146	=H26-H2	=J26*0.015	=H26-K26		=L26*2.31	=N26*0.3048	=O26-O147
27	38379.52285	90.388	38379.5275	13.029	38379.52083	693.468357	=IF(MINUTE(A27)=32,1,0)	38379.52285	90.3900969975168	=H27-H2	=J27*0.015	=H27-K27		=L27*2.31	=N27*0.3048	=O27-O147
28	38379.56451	90.395	38379.56917	13.014	38379.5625	394.536083	=IF(MINUTE(A28)=32,1,0)	38379.56451	90.3973341596911	=H28-H2	=J28*0.015	=H28-K28		=L28*2.31	=N28*0.3048	=O28-O147
29	38379.60618	90.394	38379.61083	13.014	38379.60417	-54.215036	=IF(MINUTE(A29)=32,1,0)	38379.60618	90.3949580880159	=H29-H2	=J29*0.015	=H29-K29		=L29*2.31	=N29*0.3048	=O29-O147
30	38379.64785	90.395	38379.6525	13.012	38379.64583	-564.253906	=IF(MINUTE(A30)=32,1,0)	38379.64785	90.3939042114934	=H30-H2	=J30*0.015	=H30-K30		=L30*2.31	=N30*0.3048	=O30-O147
31	38379.68951	90.403	38379.69417	13.018	38379.6875	-1025.689451	=IF(MINUTE(A31)=32,1,0)	38379.68951	90.3984154269062	=H31-H2	=J31*0.015	=H31-K31		=L31*2.31	=N31*0.3048	=O31-O147
32	38379.73118	90.403	38379.73583	13.021	38379.72917	-1334.257456	=IF(MINUTE(A32)=32,1,0)	38379.73118	90.3953256938419	=H32-H2	=J32*0.015	=H32-K32		=L32*2.31	=N32*0.3048	=O32-O147
33	38379.77285	90.411	38379.7775	13.031	38379.77083	-1417.961172	=IF(MINUTE(A33)=32,1,0)	38379.77285	90.4001419906487	=H33-H2	=J33*0.015	=H33-K33		=L33*2.31	=N33*0.3048	=O33-O147
34	38379.81451	90.411	38379.81917	13.031	38379.8125	-1256.139825	=IF(MINUTE(A34)=32,1,0)	38379.81451	90.3982401489199	=H34-H2	=J34*0.015	=H34-K34		=L34*2.31	=N34*0.3048	=O34-O147
35	38379.85618	90.409	38379.86083	13.028	38379.85417	-885.455888	=IF(MINUTE(A35)=32,1,0)	38379.85618	90.3948792538784	=H35-H2	=J35*0.015	=H35-K35		=L35*2.31	=N35*0.3048	=O35-O147
36	38379.89785	90.411	38379.9025	13.031	38379.89583	-390.807187	=IF(MINUTE(A36)=32,1,0)	38379.89785	90.3980429935519	=H36-H2	=J36*0.015	=H36-K36		=L36*2.31	=N36*0.3048	=O36-O147
37	38379.93951	90.409	38379.94417	13.033	38379.9375	116.510817	=IF(MINUTE(A37)=32,1,0)	38379.93951	90.3989967196636	=H37-H2	=J37*0.015	=H37-K37		=L37*2.31	=N37*0.3048	=O37-O147
38	38379.98118	90.403	38379.98583	13.033	38379.97917	527.337872	=IF(MINUTE(A38)=32,1,0)	38379.98118	90.3984384300428	=H38-H2	=J38*0.015	=H38-K38		=L38*2.31	=N38*0.3048	=O38-O147
39	38380.02285	90.395	38380.0275	13.032	38380.02083	761.937838	=IF(MINUTE(A39)=32,1,0)	38380.02285	90.3972873445694	=H39-H2	=J39*0.015	=H39-K39		=L39*2.31	=N39*0.3048	=O39-O147
40	38380.06451	90.387	38380.06917	13.028	38380.0625	788.665273	=IF(MINUTE(A40)=32,1,0)	38380.06451	90.3950356895534	=H40-H2	=J40*0.015	=H40-K40		=L40*2.31	=N40*0.3048	=O40-O147
41	38380.10618	90.38	38380.11083	13.028	38380.10417	629.354864	=IF(MINUTE(A41)=32,1,0)	38380.10618	90.391742915306	=H41-H2	=J41*0.015	=H41-K41		=L41*2.31	=N41*0.3048	=O41-O147
42	38380.14785	90.394	38380.1525	13.025	38380.14583	350.667487	=IF(MINUTE(A42)=32,1,0)	38380.14785	90.4070256852728	=H42-H2	=J42*0.015	=H42-K42		=L42*2.31	=N42*0.3048	=O42-O147
43	38380.18951	90.386	38380.19417	13.022	38380.1875	44.41435	=IF(MINUTE(A43)=32,1,0)	38380.18951	90.3971960304236	=H43-H2	=J43*0.015	=H43-K43		=L43*2.31	=N43*0.3048	=O43-O147
44	38380.23118	90.394	38380.23583	13.026	38380.22917	-197.487389	=IF(MINUTE(A44)=32,1,0)	38380.23118	90.4011095594137	=H44-H2	=J44*0.015	=H44-K44		=L44*2.31	=N44*0.3048	=O44-O147
45	38380.27285	90.394	38380.2775	13.027	38380.27083	-306.844223	=IF(MINUTE(A45)=32,1,0)	38380.27285	90.3964839504168	=H45-H2	=J45*0.015	=H45-K45		=L45*2.31	=N45*0.3048	=O45-O147
46	38380.31451	90.408	38380.31917	13.03	38380.3125	-255.987081	=IF(MINUTE(A46)=32,1,0)	38380.31451	90.4056939828861	=H46-H2	=J46*0.015	=H46-K46		=L46*2.31	=N46*0.3048	=O46-O147
47	38380.35618	90.409	38380.36083	13.034	38380.35417	-63.787221	=IF(MINUTE(A47)=32,1,0)	38380.35618	90.4036009068965	=H47-H2	=J47*0.015	=H47-K47		=L47*2.31	=N47*0.3048	=O47-O147
48	38380.39785	90.411	38380.4025	13.037	38380.39583	210.137803	=IF(MINUTE(A48)=32,1,0)	38380.39785	90.4037201025226	=H48-H2	=J48*0.015	=H48-K48		=L48*2.31	=N48*0.3048	=O48-O147
49	38380.43951	90.411	38380.44417	13.035	38380.4375	481.29629	=IF(MINUTE(A49)=32,1,0)	38380.43951	90.4038372543878	=H49-H2	=J49*0.015	=H49-K49		=L49*2.31	=N49*0.3048	=O49-O147
50	38380.48118	90.411	38380.48583	13.025	38380.47917	662.31546	=IF(MINUTE(A50)=32,1,0)	38380.48118	90.404112836099	=H50-H2	=J50*0.015	=H50-K50		=L50*2.31	=N50*0.3048	=O50-O147
51	38380.52285	90.417	38380.5275	13.005	38380.52083	685.795951	=IF(MINUTE(A51)=32,1,0)	38380.52285	90.4098751398659	=H51-H2	=J51*0.015	=H51-K51		=L51*2.31	=N51*0.3048	=O51-O147
52	38380.56451	90.424	38380.56917	12.995	38380.5625	522.584622	=IF(MINUTE(A52)=32,1,0)	38380.56451	90.4156970773529	=H52-H2	=J52*0.015	=H52-K52		=L52*2.31	=N52*0.3048	=O52-O147
53	38380.60618	90.418	38380.61083	12.994	38380.60417	190.968075	=IF(MINUTE(A53)=32,1,0)	38380.60618	90.4089104928014	=H53-H2	=J53*0.015	=H53-K53		=L53*2.31	=N53*0.3048	=O53-O147
54	38380.64785	90.424	38380.6525	12.997	38380.64583	-245.778272	=IF(MINUTE(A54)=32,1,0)	38380.64785	90.4143267656243	=H54-H2	=J54*0.015	=H54-K54		=L54*2.31	=N54*0.3048	=O54-O147
55	38380.68951	90.424	38380.69417	13.004	38380.6875	-693.416983	=IF(MINUTE(A55)=32,1,0)	38380.68951	90.4133440893212	=H55-H2	=J55*0.015	=H55-K55		=L55*2.31	=N55*0.3048	=O55-O147
56	38380.73118	90.434	38380.73583	13.013	38380.72917	-1049.404244	=IF(MINUTE(A56)=32,1,0)	38380.73118	90.4219474889538	=H56-H2	=J56*0.015	=H56-K56		=L56*2.31	=N56*0.3048	=O56-O147
57	38380.77285	90.432	38380.7775	13.025	38380.77083	-1228.752397	=IF(MINUTE(A57)=32,1,0)	38380.77285	90.4161871015378	=H57-H2	=J57*0.015	=H57-K57		=L57*2.31	=N57*0.3048	=O57-O147
58	38380.81451	90.432	38380.81917	13.036	38380.8125	-1186.361785	=IF(MINUTE(A58)=32,1,0)	38380.81451	90.4169847563337	=H58-H2	=J58*0.015	=H58-K58		=L58*2.31	=N58*0.3048	=O58-O147
59	38380.85618	90.433	38380.86083	13.046	38380.85417	-929.55041	=IF(MINUTE(A59)=32,1,0)	38380.85618	90.4186815474858	=H59-H2	=J59*0.015	=H59-K59		=L59*2.31	=N59*0.3048	=O59-O147
60	38380.89785	90.432	38380.9025	13.051	38380.89583	-516.91561	=IF(MINUTE(A60)=32,1,0)	38380.89785	90.4204021758611	=H60-H2	=J60*0.015	=H60-K60		=L60*2.31	=N60*0.3048	=O60-O147

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