

Appendix C

DEQ Wetland Hydrology Monitoring Data Sheets and Photos

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Photo 4-1
Location, Orientation: Wetland Site 4, Looking west
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 4, Pt 1
10/2/18, 12:00 PM
Taken by:¹
Description: Taken from wetland facing the main channel (XS2)

¹ All DEQ hydrology monitoring photos taken by M. Hutchins



Photo 4-2

Location, Orientation: Wetland Site 4, facing east
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 4, Pt 1
10/2/18, 12:00 PM
Description: Looking away from stream at the wetland



Photo 4-3

Location, Orientation: Wetland Site 4, test pit
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 4, Pt 1
10/2/18, 12:02 PM
Description: Test pit soils



Photo 3-1
Location, Orientation: Wetland Site 3, Looking east
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 3, Pt 1
10/2/18, 4:04 PM
Description: Taken from wetland looking upstream (XS4)



Photo 3-2
Location, Orientation: Wetland Site 4, facing north
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 3, Pt 1
10/2/18, 4:04 PM
Description: Taken at wetland looking towards stream (xs4)



Photo 3-3
Location, Orientation: Wetland Site 3, test pit
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 3, Pt 1
10/2/18, 4:04 PM
Description: Test pit soils



Photo 2-1
Location, Orientation: Wetland Site 2, Looking east
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 1
10/3/18, 9:49 AM
Description: Taken from wetland facing the main channel



Photo 2-2
Location, Orientation: Wetland Site 2, facing north
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 1
10/3/18, 9:49 AM
Description: Looking downstream through wetland area



Photo 2-3
Location, Orientation: Wetland Site 2, test pit
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 1
10/3/18, 9:51 AM
Description: Test pit soils



Photo 2-5

Location, Orientation: Wetland Site 2, Looking east

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: Site 2, Pt 2

10/3/18, 9:32 AM

Description: Taken from wetland facing the main channel



Photo 2-6

Location, Orientation: Wetland Site 2, facing north

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: Site 2, Pt 2

10/3/18, 9:31 AM

Description: Looking downstream through wetland area



Photo 2-7
Location, Orientation: Wetland Site 2, test pit
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 2
10/3/18, 8:41 AM
Description: Test pit soils



Photo 2-8
Location, Orientation: Wetland Site 2, test pit
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 2
10/3/18, 8:41 AM
Description: Test pit soils

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Pigg River: Wetland Site 2 City/County: Franklin Sampling Date: 10/2/14
 Applicant/Owner: FORVA State: VA Sampling Point: SB2 pt: 1
 Investigator(s): MEH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): FPL Local relief (concave/convex, none): _____ Slope (%): 21%
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No + (If no, explain in Remarks.) Wetter than normal
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks:	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <input checked="" type="checkbox"/> Surface Water (A1) _____ True Aquatic Plants (B14) <input checked="" type="checkbox"/> High Water Table (A2) _____ Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Water Marks (B1) _____ Presence of Reduced Iron (C4) _____ Sediment Deposits (B2) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Drift Deposits (B3) _____ Thin Muck Surface (C7) _____ Algal Mat or Crust (B4) _____ Other (Explain in Remarks) _____ Iron Deposits (B5) _____ _____ Inundation Visible on Aerial Imagery (B7) _____ _____ Water-Stained Leaves (B9) _____ _____ Aquatic Fauna (B13) _____	<p><u>Secondary Indicators (minimum of two required)</u></p> _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<p>Field Observations:</p> Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>4'</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <p align="center" style="font-size: 24px;">Even brown loam</p>	

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Digby River : Wetland Site 2 City/County: Franklin Sampling Date: 10/2/18
 Applicant/Owner: FORVA State: VA Sampling Point: Site 2 part 2
 Investigator(s): MH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): FLP Local relief (concave, convex, none) Slope (%): _____
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.) wetter than normal
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks:	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> True Aquatic Plants (B14) <input checked="" type="checkbox"/> High Water Table (A2) _____ Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Water Marks (B1) <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) _____ Sediment Deposits (B2) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Drift Deposits (B3) _____ Thin Muck Surface (C7) _____ Algal Mat or Crust (B4) _____ Other (Explain in Remarks) _____ Iron Deposits (B5) _____ _____ Inundation Visible on Aerial Imagery (B7) _____ _____ Water-Stained Leaves (B9) _____ <input checked="" type="checkbox"/> Aquatic Fauna (B13)	<p><u>Secondary Indicators (minimum of two required)</u></p> _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<p>Field Observations:</p> Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>3.5'</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <p align="center"><u>~10' south of surface water</u> <u>monitoring station</u></p>	

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Piggy River - Wetland Site 3 City/County: Franklin Sampling Date: 10/1/18
 Applicant/Owner: FORVA State: VA Sampling Point: SP#1
 Investigator(s): NAS, MEH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): FPL Local relief (concave, convex, none): Natural level Slope (%): 0
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ✓ (If no, explain in Remarks.) Write the normal
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ True Aquatic Plants (B14) ___ High Water Table (A2) ___ Hydrogen Sulfide Odor (C1) ___ Saturation (A3) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Water Marks (B1) ___ Presence of Reduced Iron (C4) ___ Sediment Deposits (B2) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Drift Deposits (B3) ___ Thin Muck Surface (C7) ___ Algal Mat or Crust (B4) ___ Other (Explain in Remarks) ___ Iron Deposits (B5) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9) ___ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <p style="font-size: 1.2em;">40' from right bank pin</p> <p style="font-size: 1.2em;">Soil even brown sandy loam</p>	

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Piggy River site 4 City/County: Franklin Sampling Date: 10/1/18
 Applicant/Owner: FORVA State: VA Sampling Point: SP # 1
 Investigator(s): NAS, MEH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): depression Slope (%): 0-24%
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.) wetter than normal
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> FAC-Neutral Test (D5)	_____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <p align="center" style="font-size: 1.2em;">Soil: even brown sandy loam</p> <p align="center" style="font-size: 1.2em;">Loc: 30' from left bank xs pin</p>	

Pigg River Power Dam Site Appendix D - Wetland Well Locations

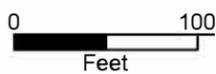
Franklin County, Virginia



L:\22000s\22900\22903_01\GIS\Wetland Well Monitoring and Parking Lot Site Plan\WellPoint_Monitoring_2018_Rotate210degrees.mxd



Imagery Source: Pictometry®
Spring 2018 Natural Color Imagery



Wetland Studies and Solutions, Inc.
a DAVEY company

Appendix D

Groundwater Monitoring Data

Per the signed additional services proposal with the permittee (FORVA) dated December 28, 2016, on February 02, 2017, WSSI installed three (3) ground/surface water monitoring wells in and adjacent to Wetland Site #2. For the Year-1 Monitoring Period, two (2) of the monitoring wells, Wells #1 and #2, were installed within the wetland area to monitor the area's hydroperiod following dam removal. One additional well, Well #3, was installed upslope of the wetland area in order to better understand the source and magnitude of groundwater contribution to the existing wetland area.

On November 17, 2017, WSSI staff removed Well #1 and reinstalled an additional well as Well #4. Well #4 was located at a low point of the wetland depression to further expand monitoring on surface hydrology and provide a record of flood depth, frequency and duration for the Year-2 Monitoring Period.

Year-2 Methods

At Wells #2 and #4, Solinst pressure transducers were used in conjunction with an onsite barometer to collect water surface elevation data. These automated wells were programmed to take readings twice daily, recording both water depth and temperature. Manual well data collection occurred monthly, wherein transducer data from Wells #2 and #4 were downloaded and depth-to-water measurements were taken at Well #3.

Note that pressure transducers record absolute pressure (barometric pressure + water pressure). This information was then calibrated using an onsite barometer to give a water height above sensor in ft. Solinst pressure transducers also record groundwater temperature assuming the water level is above the sensor on the transducer. Once the water level falls below the transducer sensor, the water height reads 0 ft. and temperature readings become air temperature at sensor depth. Groundwater and surface water results for the Year-2 Monitoring Period are shown in Figures 1-6.

Daily sum accumulation information for precipitation, used in Figures 1-6, was taken from weather station USC00447338 accessible through NOAA's National Centers for Environmental Information Website. Precipitation data for the IFLOWS "Rocky Mount/Pigg" (referenced in the applicable permit) did not have sufficient data available for the monitoring period. Historical precipitation data for the NOAA and IFLOWS stations from both Year-1 and Year-2 monitoring periods can be found in **Appendix E**. Note that the IFLOWS weather station reports a "0" if the system has an outage or is non-responsive.

Year-2 Results

Automated hydrology information for Well #2 is shown in Figure 1 and Well #4 in Figure 2. Manual-read data from Well #3 is shown in Figure 3. Well #3 readings were taken using a water-level meter probe. Measurements were taken by lowering a sensor down the well and recording the depth to water level.

In Figures 4 – 6 elevations are given for ground and surface water levels. These figures also show daily precipitation data as a total accumulation sum in inches. Weather data referenced was taken from the NOAA station referenced in **Appendix E**. Average ground elevation adjacent to the well and sensor elevation are shown in Figures 4 and 5 to illustrate surface water ponding. Note that the sensor elevation was adjusted in Well #4 on March 07, 2018 to counteract minor sedimentation within the well tube. Figure 6 shows each of the three (3) monitoring wells including daily rainfall accumulation data.

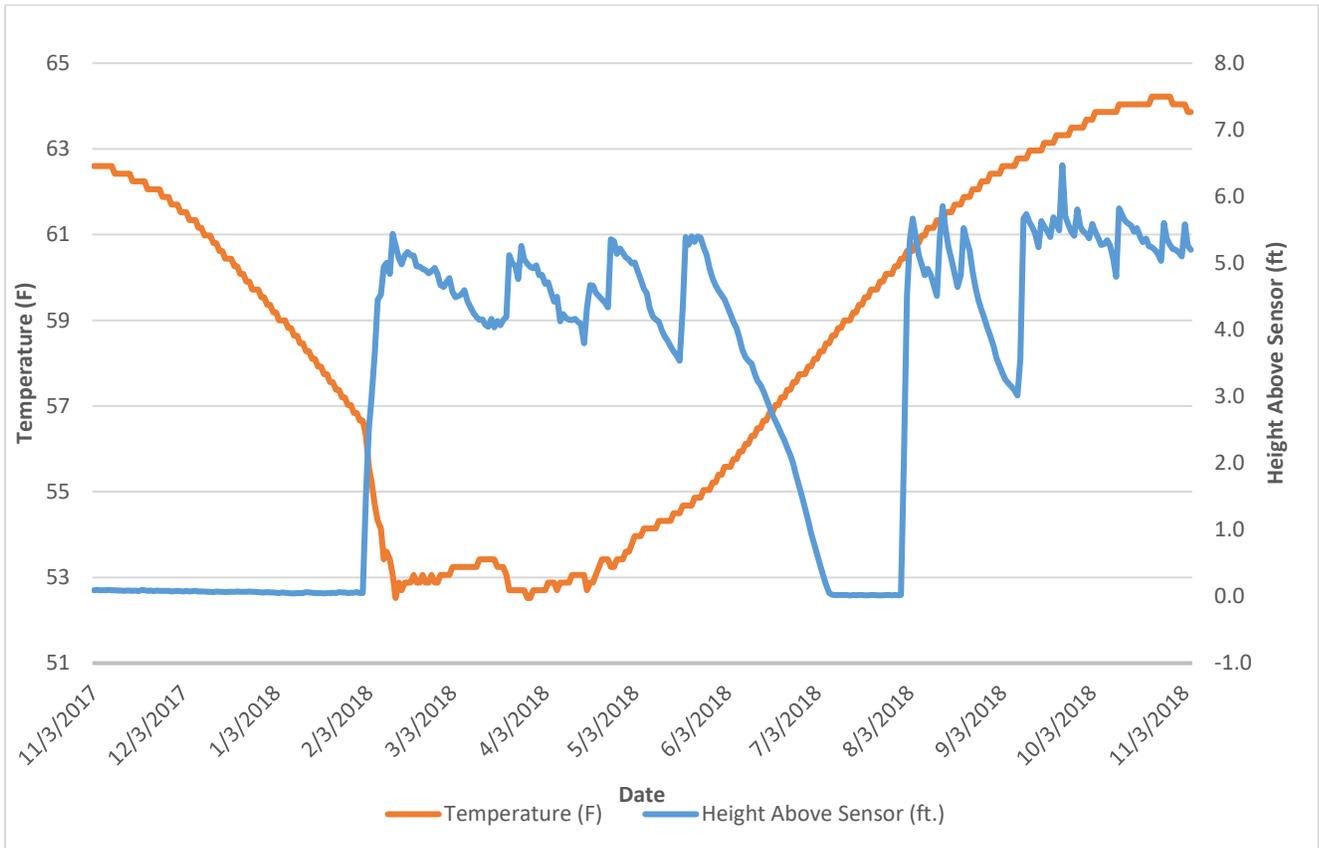


Figure 1: Well #2 – Year-2 Water Temperature and Height Above Sensor

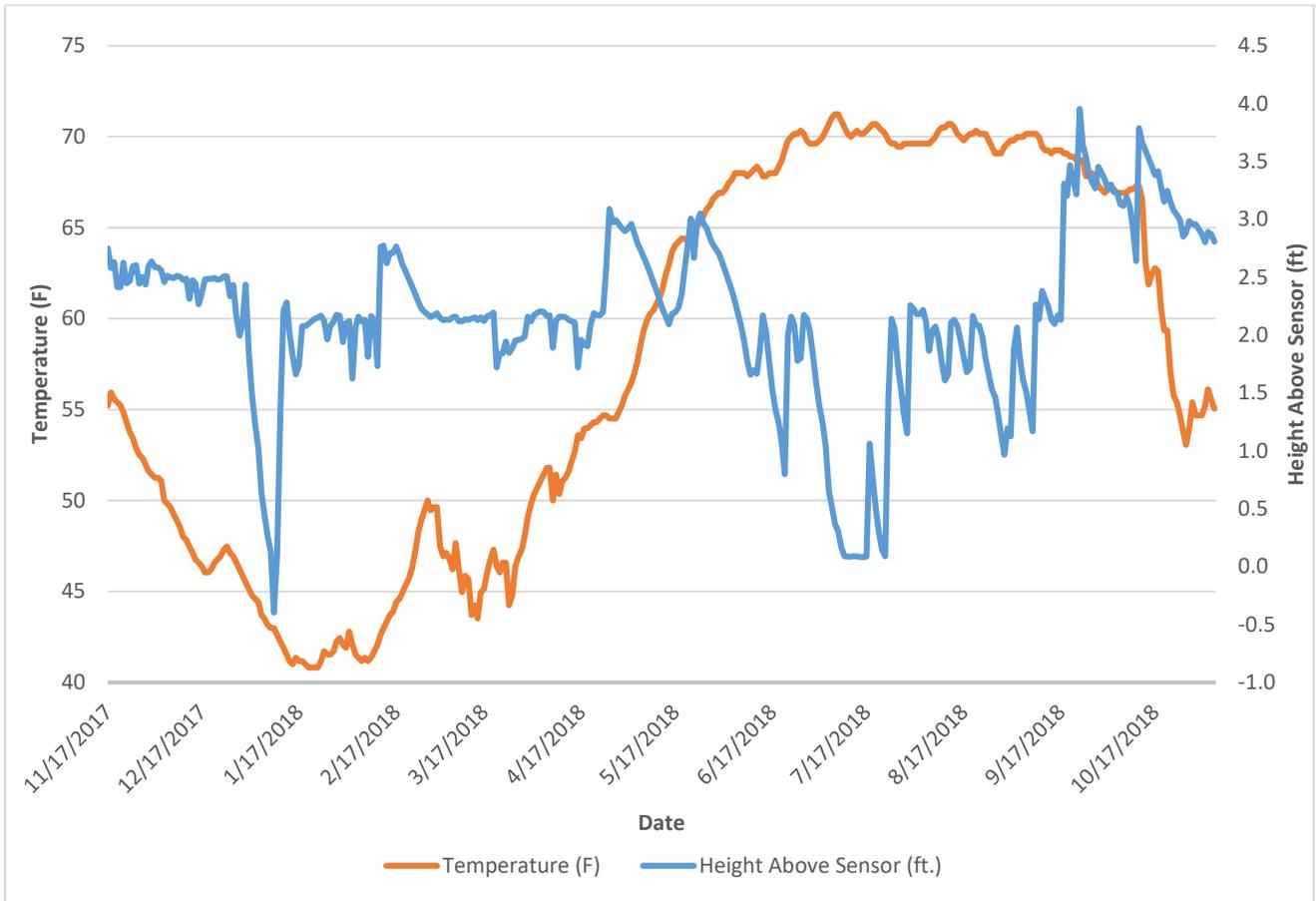


Figure 2: Well #4 – Year-2 Water Temperature and Height Above Sensor

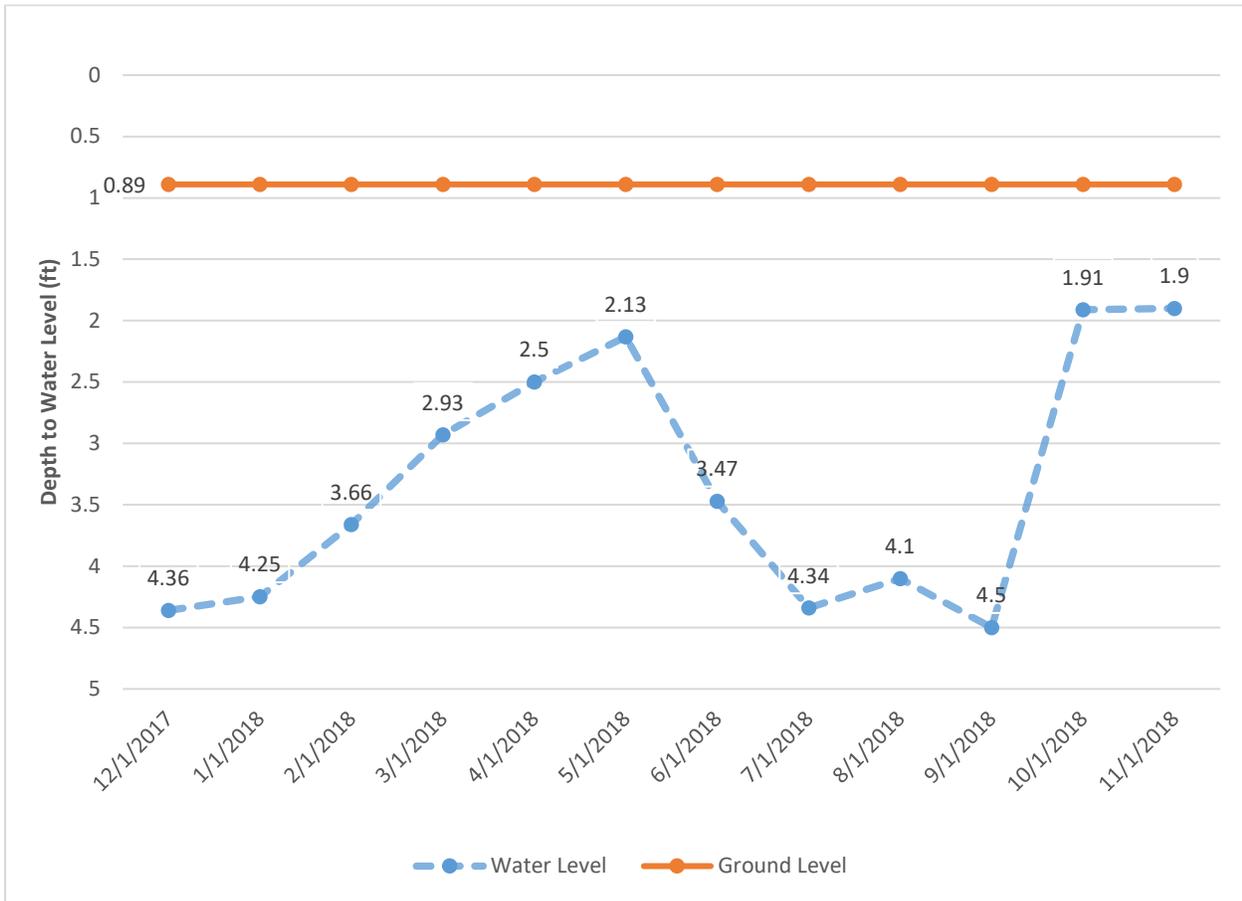


Figure 3: Well #3 – Year-2 Depth to Water Level (Manual-Read)

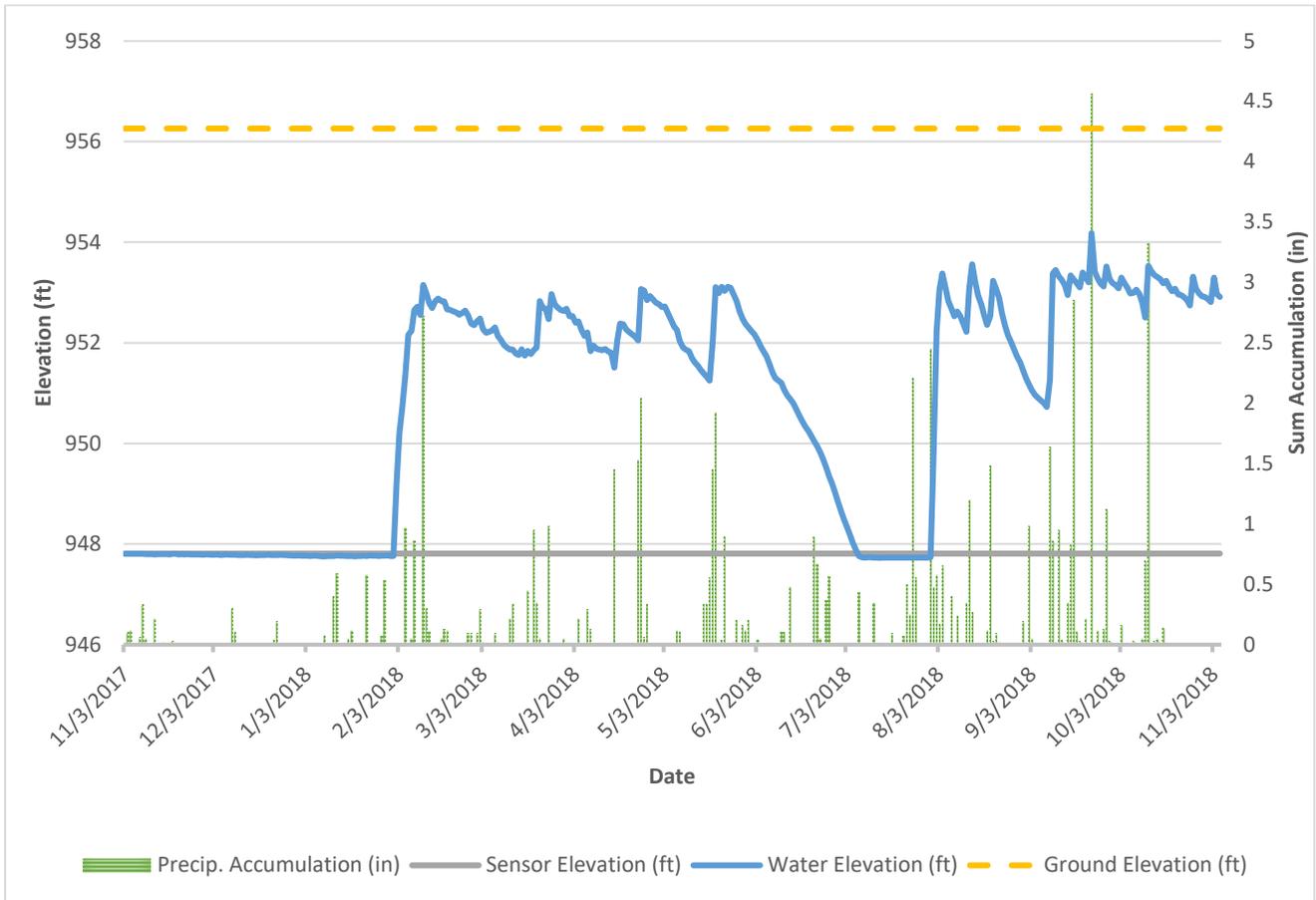


Figure 4: Well #2 – Year-2 Precipitation and Groundwater Elevation

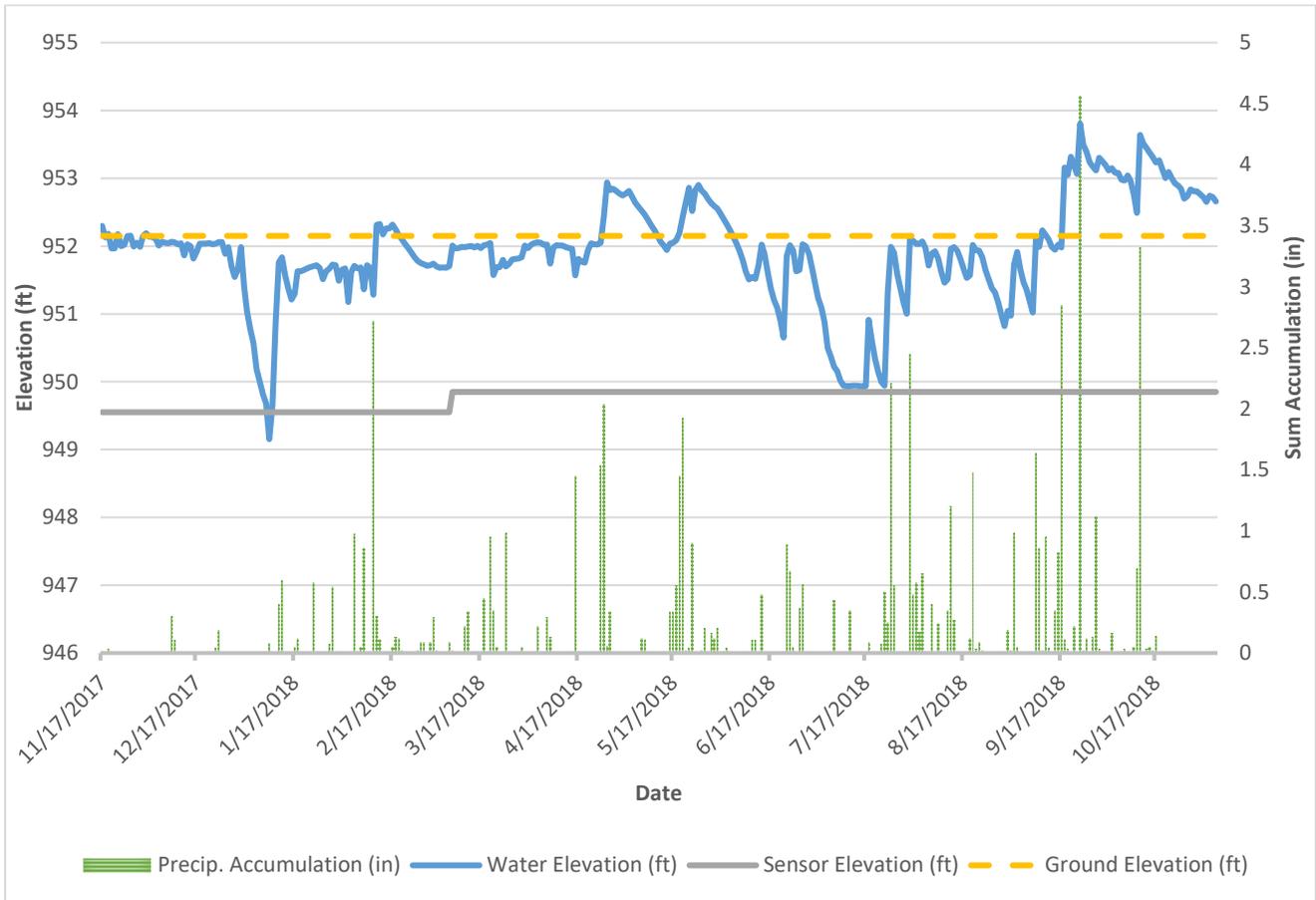


Figure 5: Well #4 – Year-2 Precipitation and Surface Water Elevation

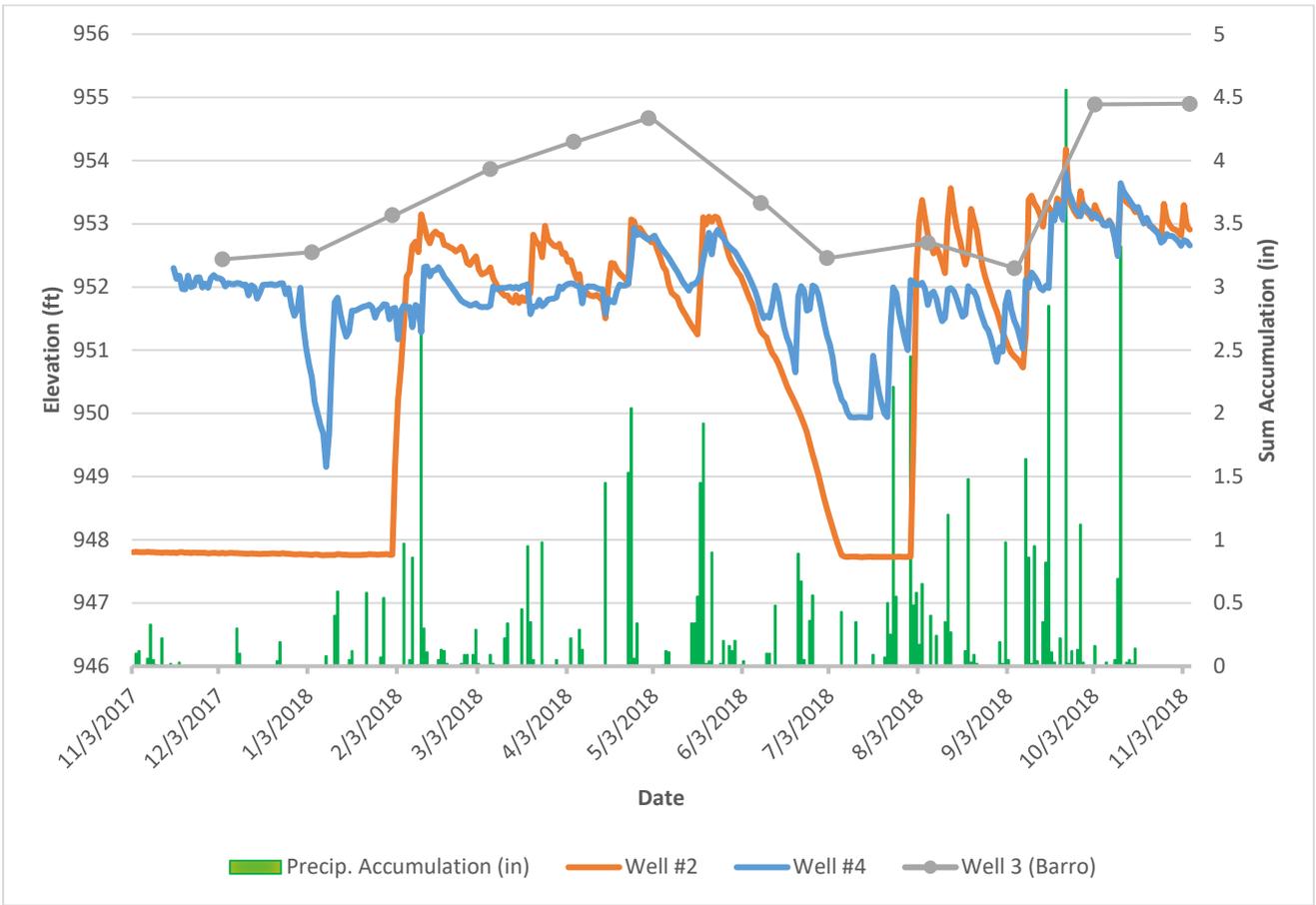


Figure 6: Year-2 Combined Precipitation and Water Elevations

Appendix E

(Daily precipitation accumulation totals for Year-1 and Year-2 monitoring periods, 1/30/2017-11/5/2018, are shown for the Rocky Mount/Pigg IFLOWS station as well as the Rocky Mount NOAA Station for comparison)

NOAA	
Rocky Mount (USC00447338)	
(36.9769°, -79.8961°)	
Elevation: 400.80'	
Date	Sum Accumulation (in)
1/30/2017	0
1/31/2017	0
2/1/2017	0
2/2/2017	0
2/3/2017	0
2/4/2017	0
2/5/2017	0
2/6/2017	0
2/7/2017	0
2/8/2017	0
2/9/2017	0.26
2/10/2017	0
2/11/2017	0
2/12/2017	0.02
2/13/2017	0.05
2/14/2017	0
2/15/2017	0.25
2/16/2017	0.02
2/17/2017	0
2/18/2017	0
2/19/2017	0
2/20/2017	0
2/21/2017	0
2/22/2017	0.11
2/23/2017	0.32
2/24/2017	0
2/25/2017	0
2/26/2017	0
2/27/2017	0
2/28/2017	0
3/1/2017	0.13
3/2/2017	0.25
3/3/2017	0
3/4/2017	0
3/5/2017	0
3/6/2017	0
3/7/2017	0
3/8/2017	0.09
3/9/2017	0
3/10/2017	0
3/11/2017	0

IFLOWS	
Rocky Mount/Pigg (1477)	
(Unknown)	
Elevation: Unknown	
Date	Sum Accumulation (in)
1/30/2017	0
1/31/2017	0
2/1/2017	0
2/2/2017	0
2/3/2017	0
2/4/2017	0
2/5/2017	0
2/6/2017	0
2/7/2017	0
2/8/2017	0
2/9/2017	0
2/10/2017	0
2/11/2017	0
2/12/2017	0
2/13/2017	0
2/14/2017	0
2/15/2017	0
2/16/2017	0
2/17/2017	0
2/18/2017	0
2/19/2017	0
2/20/2017	0
2/21/2017	0
2/22/2017	0
2/23/2017	0
2/24/2017	0
2/25/2017	0
2/26/2017	0
2/27/2017	0
2/28/2017	0
3/1/2017	0
3/2/2017	0
3/3/2017	0
3/4/2017	0
3/5/2017	0
3/6/2017	0
3/7/2017	0
3/8/2017	0
3/9/2017	0
3/10/2017	0
3/11/2017	0

3/12/2017	0
3/13/2017	0
3/14/2017	0.43
3/15/2017	0.02
3/16/2017	0
3/17/2017	0
3/18/2017	0.25
3/19/2017	0.2
3/20/2017	0
3/21/2017	0.06
3/22/2017	0
3/23/2017	0
3/24/2017	0
3/25/2017	0
3/26/2017	0
3/27/2017	0.19
3/28/2017	0.45
3/29/2017	0.16
3/30/2017	0.11
3/31/2017	0.74
4/1/2017	0.32
4/2/2017	0
4/3/2017	0
4/4/2017	0.58
4/5/2017	0
4/6/2017	0.24
4/7/2017	0.02
4/8/2017	0
4/9/2017	0
4/10/2017	0
4/11/2017	0
4/12/2017	0
4/13/2017	0
4/14/2017	0
4/15/2017	0
4/16/2017	0.05
4/17/2017	0
4/18/2017	0.04
4/19/2017	0.06
4/20/2017	0.14
4/21/2017	0.14
4/22/2017	0.02
4/23/2017	1.02
4/24/2017	2.1
4/25/2017	2.05
4/26/2017	0.22
4/27/2017	0

3/12/2017	0
3/13/2017	0
3/14/2017	0
3/15/2017	0
3/16/2017	0
3/17/2017	0
3/18/2017	0
3/19/2017	0
3/20/2017	0
3/21/2017	0
3/22/2017	0
3/23/2017	0
3/24/2017	0
3/25/2017	0
3/26/2017	0
3/27/2017	0
3/28/2017	0
3/29/2017	0
3/30/2017	0
3/31/2017	0
4/1/2017	0
4/2/2017	0
4/3/2017	0
4/4/2017	0
4/5/2017	0
4/6/2017	0
4/7/2017	0
4/8/2017	0
4/9/2017	0
4/10/2017	0
4/11/2017	0
4/12/2017	0
4/13/2017	0
4/14/2017	0
4/15/2017	0
4/16/2017	0
4/17/2017	0
4/18/2017	0
4/19/2017	0
4/20/2017	0
4/21/2017	0
4/22/2017	0
4/23/2017	0
4/24/2017	0
4/25/2017	0
4/26/2017	0
4/27/2017	0

4/28/2017	0.14
4/29/2017	0
4/30/2017	0
5/1/2017	0
5/2/2017	0.52
5/3/2017	0
5/4/2017	0
5/5/2017	2.11
5/6/2017	0.14
5/7/2017	0.05
5/8/2017	0
5/9/2017	0
5/10/2017	0.43
5/11/2017	0
5/12/2017	0.14
5/13/2017	0.74
5/14/2017	0
5/15/2017	0
5/16/2017	0
5/17/2017	0
5/18/2017	0
5/19/2017	0
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7/15/2018	0
7/16/2018	0
7/17/2018	0
7/18/2018	0.09
7/19/2018	0
7/20/2018	0
7/21/2018	0
7/22/2018	0.07
7/23/2018	0.5
7/24/2018	0.25
7/25/2018	2.21
7/26/2018	0.55
7/27/2018	0
7/28/2018	0
7/29/2018	0
7/30/2018	0
7/31/2018	2.45
8/1/2018	0.48
8/2/2018	0.58
8/3/2018	0.17
8/4/2018	0.65
8/5/2018	0
8/6/2018	0
8/7/2018	0.4
8/8/2018	0
8/9/2018	0.24
8/10/2018	0

6/25/2018	0.04
6/26/2018	0.59
6/27/2018	0.04
6/28/2018	0
6/29/2018	0
6/30/2018	0
7/1/2018	0
7/2/2018	0
7/3/2018	0
7/4/2018	0.08
7/5/2018	0
7/6/2018	0.24
7/7/2018	0.04
7/8/2018	0
7/9/2018	0
7/10/2018	0
7/11/2018	0.28
7/12/2018	0
7/13/2018	0
7/14/2018	0
7/15/2018	0
7/16/2018	0
7/17/2018	0.24
7/18/2018	0
7/19/2018	0.04
7/20/2018	0
7/21/2018	0.04
7/22/2018	0.63
7/23/2018	0.08
7/24/2018	1.42
7/25/2018	0.71
7/26/2018	0
7/27/2018	0
7/28/2018	0
7/29/2018	0
7/30/2018	1.55
7/31/2018	0.6
8/1/2018	0.08
8/2/2018	0.6
8/3/2018	0.36
8/4/2018	0.12
8/5/2018	0.08
8/6/2018	0.04
8/7/2018	0.04
8/8/2018	0
8/9/2018	0
8/10/2018	0

8/11/2018	0
8/12/2018	0.35
8/13/2018	1.2
8/14/2018	0.27
8/15/2018	0
8/16/2018	0
8/17/2018	0
8/18/2018	0
8/19/2018	0.12
8/20/2018	1.48
8/21/2018	0.03
8/22/2018	0.09
8/23/2018	0.02
8/24/2018	0
8/25/2018	0
8/26/2018	0
8/27/2018	0
8/28/2018	0
8/29/2018	0
8/30/2018	0
8/31/2018	0.19
9/1/2018	0.02
9/2/2018	0.98
9/3/2018	0.05
9/4/2018	0
9/5/2018	0
9/6/2018	0
9/7/2018	0
9/8/2018	0
9/9/2018	1.64
9/10/2018	0.86
9/11/2018	0.02
9/12/2018	0.95
9/13/2018	0.04
9/14/2018	0
9/15/2018	0.35
9/16/2018	0.82
9/17/2018	2.85
9/18/2018	0.11
9/19/2018	0.03
9/20/2018	0
9/21/2018	0.22
9/22/2018	0
9/23/2018	4.56
9/24/2018	0.02
9/25/2018	0.12
9/26/2018	0

8/11/2018	0
8/12/2018	0.04
8/13/2018	0.08
8/14/2018	0.12
8/15/2018	0.64
8/16/2018	0.44
8/17/2018	0.16
8/18/2018	0
8/19/2018	0.04
8/20/2018	0.16
8/21/2018	0.08
8/22/2018	0
8/23/2018	0
8/24/2018	0
8/25/2018	0
8/26/2018	0
8/27/2018	0
8/28/2018	0
8/29/2018	0
8/30/2018	0
8/31/2018	0.04
9/1/2018	0.87
9/2/2018	0.2
9/3/2018	0
9/4/2018	0
9/5/2018	0
9/6/2018	0
9/7/2018	0
9/8/2018	0.32
9/9/2018	1.07
9/10/2018	0.48
9/11/2018	0.47
9/12/2018	0.39
9/13/2018	0.04
9/14/2018	0
9/15/2018	0.44
9/16/2018	1.04
9/17/2018	1.43
9/18/2018	0.16
9/19/2018	0
9/20/2018	0.08
9/21/2018	0
9/22/2018	1.9
9/23/2018	0.67
9/24/2018	0
9/25/2018	0.31
9/26/2018	0.04

9/27/2018	0.13
9/28/2018	1.12
9/29/2018	0.03
9/30/2018	0
10/1/2018	0
10/2/2018	0
10/3/2018	0.16
10/4/2018	0
10/5/2018	0
10/6/2018	0
10/7/2018	0.03
10/8/2018	0
10/9/2018	0
10/10/2018	0.05
10/11/2018	0.69
10/12/2018	3.32
10/13/2018	0
10/14/2018	0.03
10/15/2018	0.05
10/16/2018	0.02
10/17/2018	0.14
10/18/2018	0
10/19/2018	0
10/20/2018	*
10/21/2018	*
10/22/2018	*
10/23/2018	*
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10/28/2018	*
10/29/2018	*
10/30/2018	*
10/31/2018	*
11/1/2018	*
11/2/2018	0.1
11/3/2018	0.98
11/4/2018	0
11/5/2018	0.15

9/27/2018	0
9/28/2018	0
9/29/2018	0
9/30/2018	0
10/1/2018	0
10/2/2018	0.04
10/3/2018	0
10/4/2018	0
10/5/2018	0
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10/7/2018	0
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10/9/2018	0
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10/28/2018	0
10/29/2018	0
10/30/2018	0
10/31/2018	0
11/1/2018	0
11/2/2018	0
11/3/2018	0
11/4/2018	0
11/5/2018	0

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