

2020 Rainmaker Spring Annual Report Fryeburg, Maine

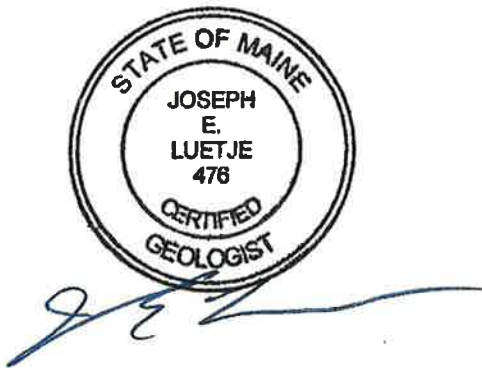
Prepared for:

Nestlé Waters North America Inc.
(d/b/a Poland Spring)
123 Preservation Way
Poland Spring, Maine 04274



Prepared by:

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March 2021

**2020 RAINMAKER SPRING ANNUAL REPORT
FRYEBURG, MAINE**

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1.0 INTRODUCTION

Pursuant to the Natural Resources Protection Act (NRPA) Significant Groundwater Well Permit #L-24280-GW-A-N, issued in February 2009, LGS presents this 2020 Rainmaker Spring Annual Report. This annual report also satisfies the requirements under local Town Ordinance 17H: *Groundwater and/or Spring Water Extraction*, the Approved Land Use Authorization, dated April 20, 2004 and June 29, 2004.

Nestle Waters North America Inc. (Poland Spring) acquired the Rainmaker Spring site (herein 'Site') on August 7, 2017. Luetje Geological Services (LGS), an independent hydrogeologic consulting firm, has been contracted by Poland Spring to collect and compile the monitoring data from the Rainmaker Spring site. Monitoring activities include the following:

- Weekly depth to water measurements in five monitoring wells and four piezometers;
- Weekly monitoring of surface water elevation on Wards Pond at Route 113 and west of the site proximate to Spring 2;
- Weekly flow measurements from Spring-1 and 2;
- Record of groundwater withdrawal (gallons pumped); and
- Precipitation tracking (Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center)).

Figure 1 (Site Map) is provided at the end of this letter report and shows all monitoring locations.

2.0 PRECIPITATION

Precipitation data has been obtained from the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), located approximately two miles to the south of the Site. Missing data from the airport station has been supplemented with data collected from an on-site rain gauge located at the nearby Evergreen Spring load station. Between the monitoring dates of 1/2/20 and 12/30/20, KIZG recorded 40.31 inches of precipitation. Precipitation data is included in Table 1, and is shown on Figures 2 and 3 as 'weekly precipitation', or the amount recorded between monitoring dates.

From 1992 to 2020, the Fryeburg area has received an average of approximately 48 inches of precipitation per year. This average was calculated from data primarily recorded at the Fryeburg Eastern Slopes Airport weather station (ICAO Station KIZG, Northeast Regional Climate Center). Data from an on-site rain gauge at the Evergreen Spring load-out was used where gaps in the KIZG record occurred. For the 2020 calendar year, the KIZG station recorded 40.94 inches, or approximately seven inches below the long term mean for this station.

3.0 GROUNDWATER MONITORING

Groundwater levels are measured in five monitoring wells at locations shown in Figure 1. All monitoring data are tabulated and located in Table 1. A graphical representation of groundwater elevations, and weekly precipitation, is provided in Figure 2.

During the 2020 calendar year groundwater levels, as measured in the on-site monitoring wells, exhibited typical seasonal fluctuations. From the beginning of 2020 to mid-March, groundwater levels gently declined, representing the typical winter conditions. A spring recharge period extended from mid-March to mid-May 2020, and groundwater levels rose by approximately 2.5 feet. From mid-May to early-October, groundwater levels experienced a typical summer decline as a result of increased evapotranspiration and reduced recharge during warmer and drier summer months, lowering groundwater levels across the Site by four to five feet. From early-October to the end of 2020, groundwater levels rebounded by approximately one foot, representing fall recharge.

4.0 SURFACE WATER MONITORING

Surface water monitoring is conducted at two locations: SG-1 is located in Wards Pond to the west of and adjacent to Spring-2, and WPMP-1 is located on the upstream side of Route 113 in Wards Pond (Figure 1). A graphical representation of surface water levels from SG-1 and WPMP-1 is included in Figure 3.

From the beginning of 2020 to late-August, surface water levels at WPMP-1 fluctuated between 397 and 397.5 feet NAVD88, reaching its annual low by late-August. From late-August to the end of 2020, surface water levels at WPMP-1 rose by approximately one foot.

At SG-1, surface water level measurements were first made in 2020 on 4/9/20 (Figure 3). Prior to 4/9/20, ice conditions were present (January thru February) followed by high surface water levels in Wards Pond, submerging the gauge thru March and into April. Highest surface water levels at SG-1 were observed in mid-May with an elevation around 400 feet NAVD88. This was followed by a summer decline that extended into mid-October, dropping the surface water elevation to around 397 feet NAVD88. The surface water level fell below the gauge from the 7/29/20 monitoring event to the 10/13/20 monitoring event. From mid-October to the end of 2020, the surface water level rose from approximately 397.5 to 399 feet NAVD88, with intermittent ice conditions present.

5.0 PIEZOMETER MONITORING

Water levels are measured at two piezometer sets located adjacent to each spring. PZ-21D and PZ-21S are located near Spring-1 and P1 and P2 are located near Spring-2.

As seen in Figure 3, both piezometer sets showed similar seasonal water level trends throughout the 2020 calendar year. A slight winter decline ended in late-February, followed by a rise in levels that peaked in early-May. Piezometer water levels then declined by approximately one foot, representing a typical summer trend, that ended in mid-October. The remainder of the year

exhibited increasing levels representing fall recharge. Levels rose by approximately one half foot over that time. Please note that PZ-21S was vandalized sometime between the 12/4/20 and 12/13/20 monitoring events, and is no longer in-place. LGS intends to replace PZ-21S during Q1 2021.

6.0 SPRING MONITORING

Spring flow measurements from Spring-1, between the 1/8/20 and 2/26/20 monitoring events, ranged from 10.91 – 15.00 liters per minute. Spring-1 was then submerged until the 6/5/20 monitoring event. Flow measurements were then able to be conducted from Spring-1 during the majority of monitoring events to the end of 2020. Flow during this time frame ranged from 3.43 – 25.00 liters per minute. The maximum measured flow occurred during the 6/26/20 monitoring event, and the minimum measured flow occurred on the 11/1/20 monitoring event.

Spring flow measurements from Spring-2 were first made in 2020 during the 5/30/20 monitoring round. Submerged conditions were observed prior to that round. Flow measurements were consistently made between the 5/30/20 and 9/17/20 monitoring rounds, however, only infrequently after that until the end of 2020, caused by either no flow conditions or submerged conditions. The maximum measured flow (5.00 liters per minute) was observed during the 7/23/20 monitoring event, and the minimum measured flow (1.43 liters per minute) was observed during the 10/13/20 monitoring event.

7.0 WITHDRAWALS

Poland Spring did not withdraw any water from the Rainmaker Spring site production well during the 2020 calendar year.

8.0 CONCLUSIONS and RECOMMENDATIONS

Based on the data collected from the Rainmaker Spring site in Fryeburg, Maine during 2020, the following conclusions may be deduced:

- Groundwater levels, as measured in the on-site monitoring wells, exhibited normal seasonal variations and responses to aquifer recharge throughout 2020;
- Surface water levels across the site exhibited typical seasonal variations throughout 2020, in response to precipitation or lack thereof;
- Both piezometer sets showed similar seasonal water level trends throughout the 2020 calendar year. PZ-21S was vandalized sometime between the 12/4/20 and 12/13/20 monitoring events, and is no longer in-place. LGS intends to replace PZ-21S during Q1 2021;
- Spring-1, when measured, had a maximum flow of 25.00 liter per minute recorded during the 6/26/20 monitoring event, and a minimum flow of 3.43 liters per minute recorded during the 11/1/20 monitoring event;

- Spring-2, when measured, had a maximum flow of 5.00 liters per minute recorded during the 7/23/20 monitoring event, and a minimum flow of 1.43 liters per minute recorded during the 10/13/20 monitoring event;
- Total precipitation as recorded at the Fryeburg Eastern Slopes Airport, and between the dates of 1/2/2020 to 12/30/2020, totaled 40.31 inches, approximately seven inches below the station's period of record mean (1992 – 2020) of 48 inches; and,
- No withdrawals were made from the Rainmaker Spring production well during 2020.

Based on this compilation and analysis of groundwater and surface water data collected at the Rainmaker Spring Site in Fryeburg, Maine, and given that Poland Spring did not withdraw any water from the Site in 2020, Luetje Geological Service has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of this acquisition.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Poland Spring (Mr. Mark Dubois, Mr. Joshua Bowe)

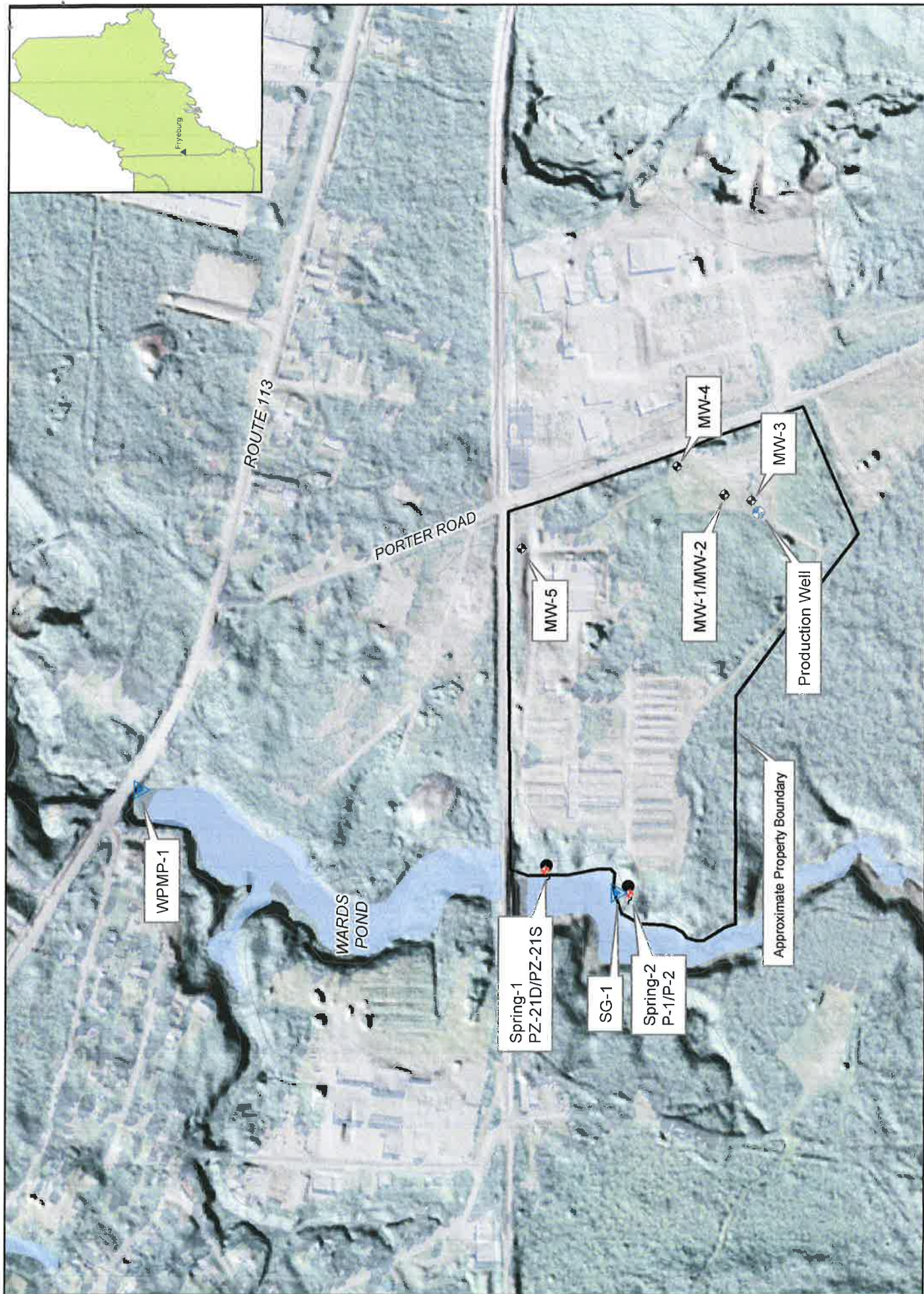


FIGURE 1
RAINMAKER SPRING SITE MAP
FRYEBURG, MAINE

FIGURE 2
GROUNDWATER ELEVATION DATA - WEEKLY PRECIPITATION

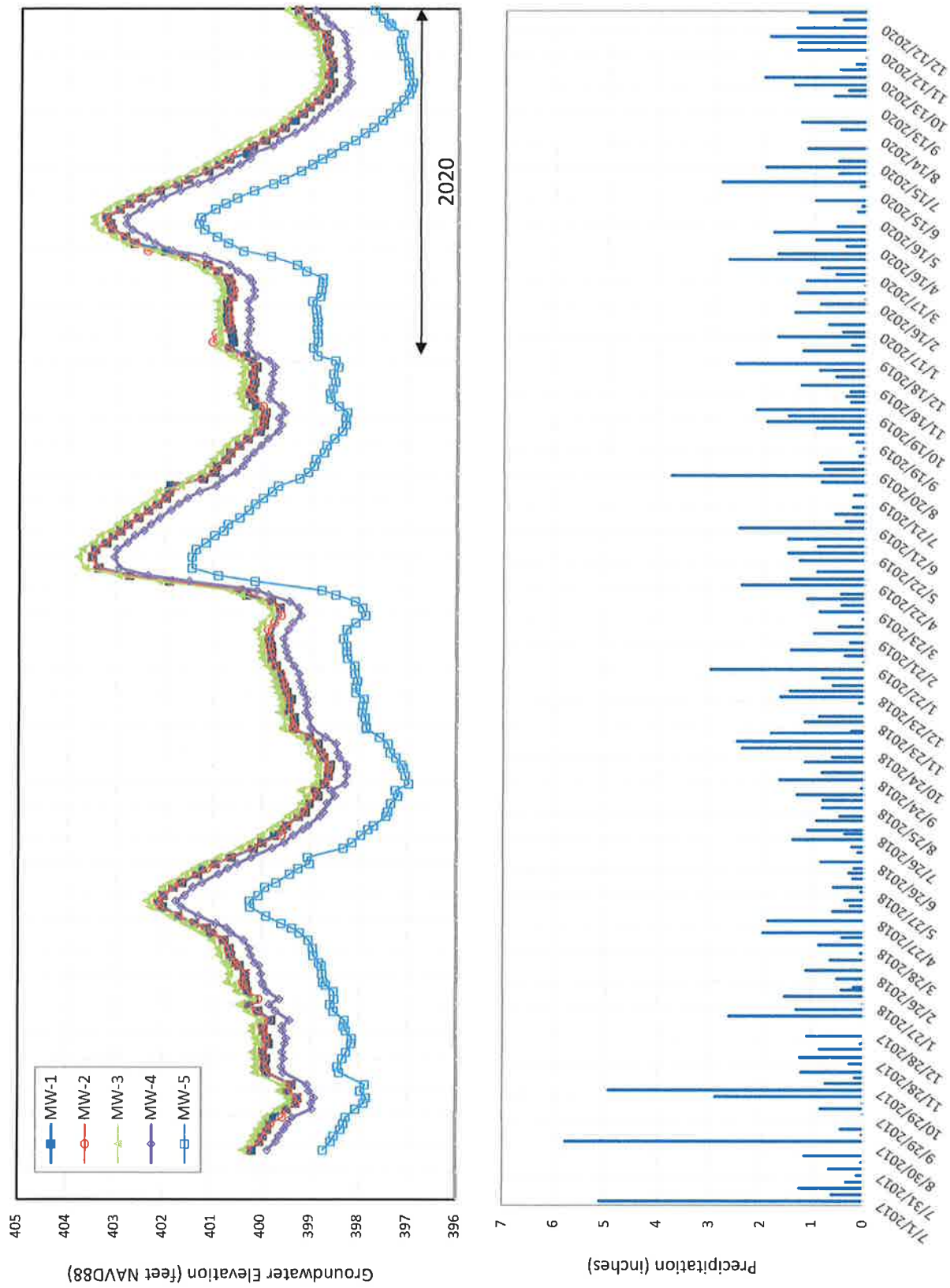


FIGURE 3
SURFACE WATER and PIEZOMETER ELEVATION DATA - WEEKLY PRECIPITATION

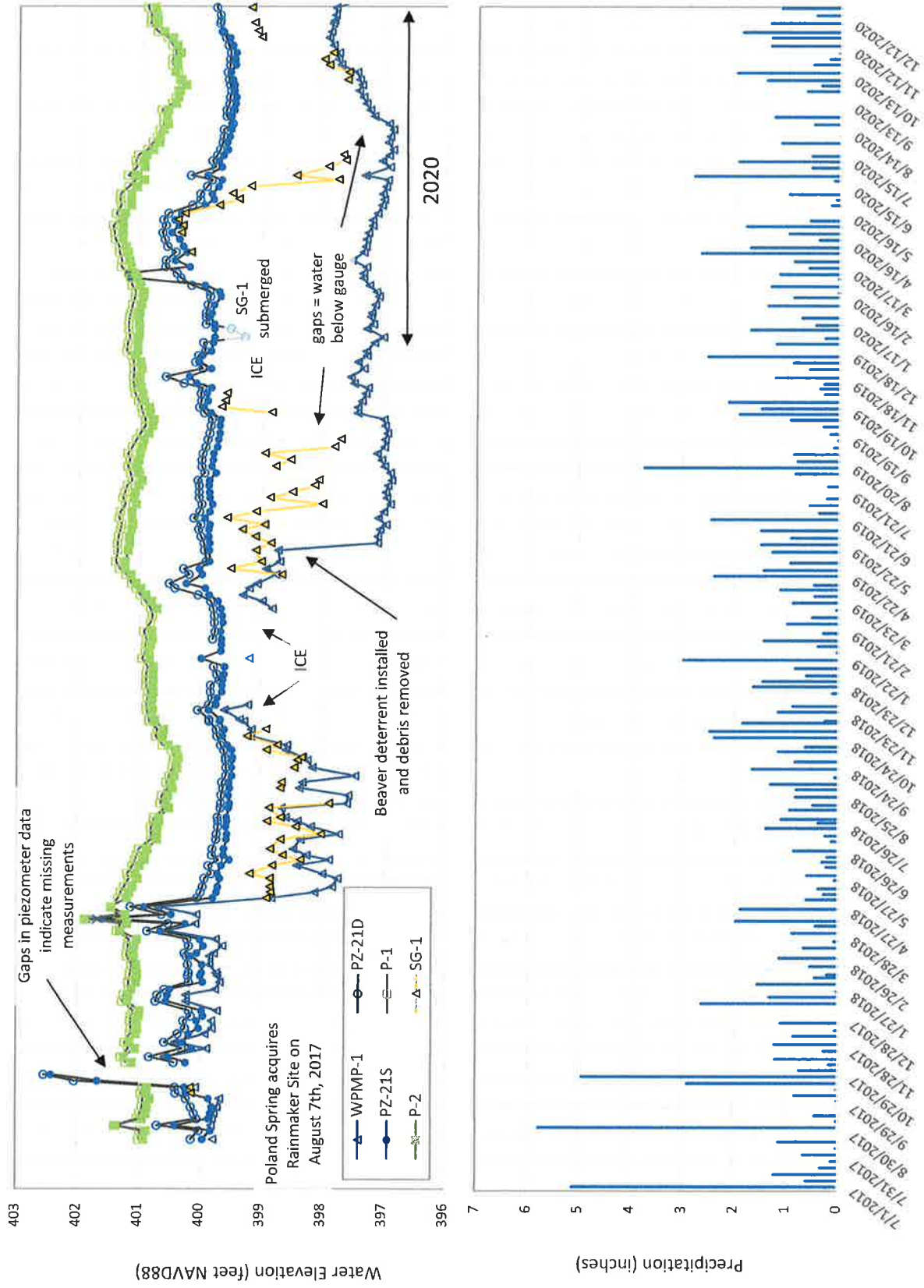


TABLE 1
MONITORING DATA
RAINMAKER SPRING SITE
FRYEBURG, MAINE

[illegible]

Notes:
 N/A = not measured
 UNW = under water
 n/a = no flow