

Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

February 28, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: January 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on January 22nd, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
JANUARY 22nd, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	399.24
MW-103	421.42	411.18
MW-105	404.98	380.44
MW-107	432.05	425.60
MW-108	419.88	410.53
MW-109	420.08	398.95
MW-110	461.84	416.64
MW-113	441.11	420.41
MW-114	405.25	385.16
TW-2 ⁴	404.19	Frozen
TW-9	409.17	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
3. MW refers to 'monitoring well'
4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on January 22nd, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
JANUARY 22nd, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.75	362.98
WPMP-1	401.22	Frozen
SRMP-1	418.85	Frozen
WPSG-2A	403.03	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for January 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JANUARY 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	2.31
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	2.31

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 9,163,580 gallons for the month of January 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

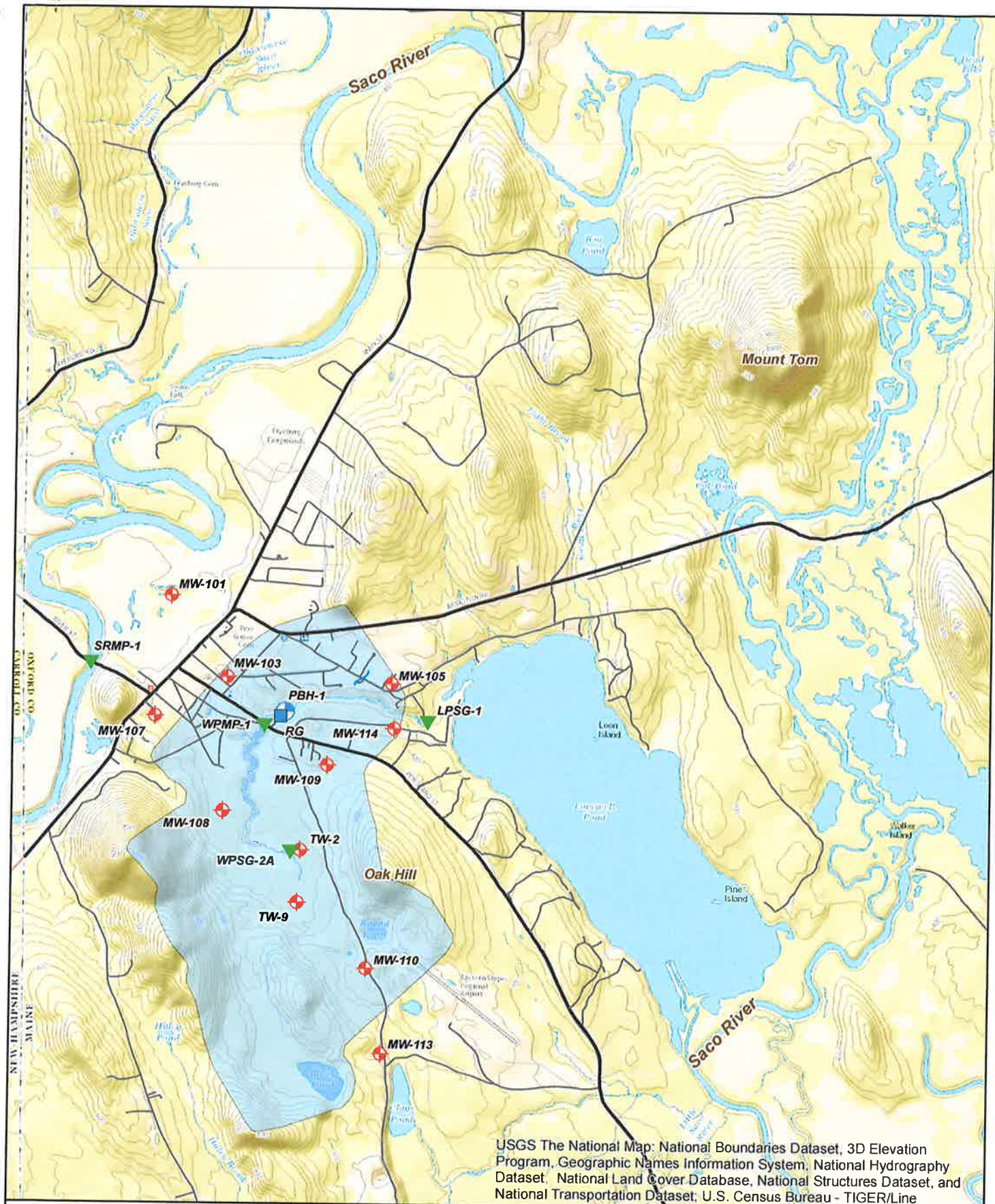
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. John Hastings)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



USGS The National Map: National Boundaries Dataset, 3D Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line

- BOREHOLE
- MONITORING WELL
- RAIN GAUGE
- SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

0 0.25 0.5 1 Miles



NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.

DATE:
2/11/2016

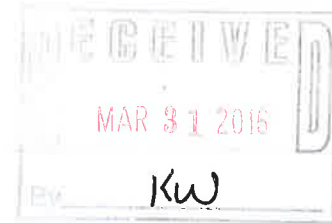
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Luetje Geological Services, LLC
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58 Fore Street
Portland, Maine 04101

March 28, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: February 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on February 19th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
FEBRUARY 19th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	398.86
MW-103	421.42	410.86
MW-105	404.98	380.17
MW-107	432.05	425.24
MW-108	419.88	410.64
MW-109	420.08	398.19
MW-110	461.84	417.19
MW-113	441.11	420.81
MW-114	405.25	385.62
TW-2 ⁴	404.19	Frozen
TW-9	409.17	409.67

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on February 19th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
FEBRUARY 19th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.75	362.52
WPMP-1	401.22	Frozen
SRMP-1	418.85	Frozen
WPSG-2A	403.03	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
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PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for February 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
FEBRUARY 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.96
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	5.03

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 9,328,597 gallons for the month of February 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

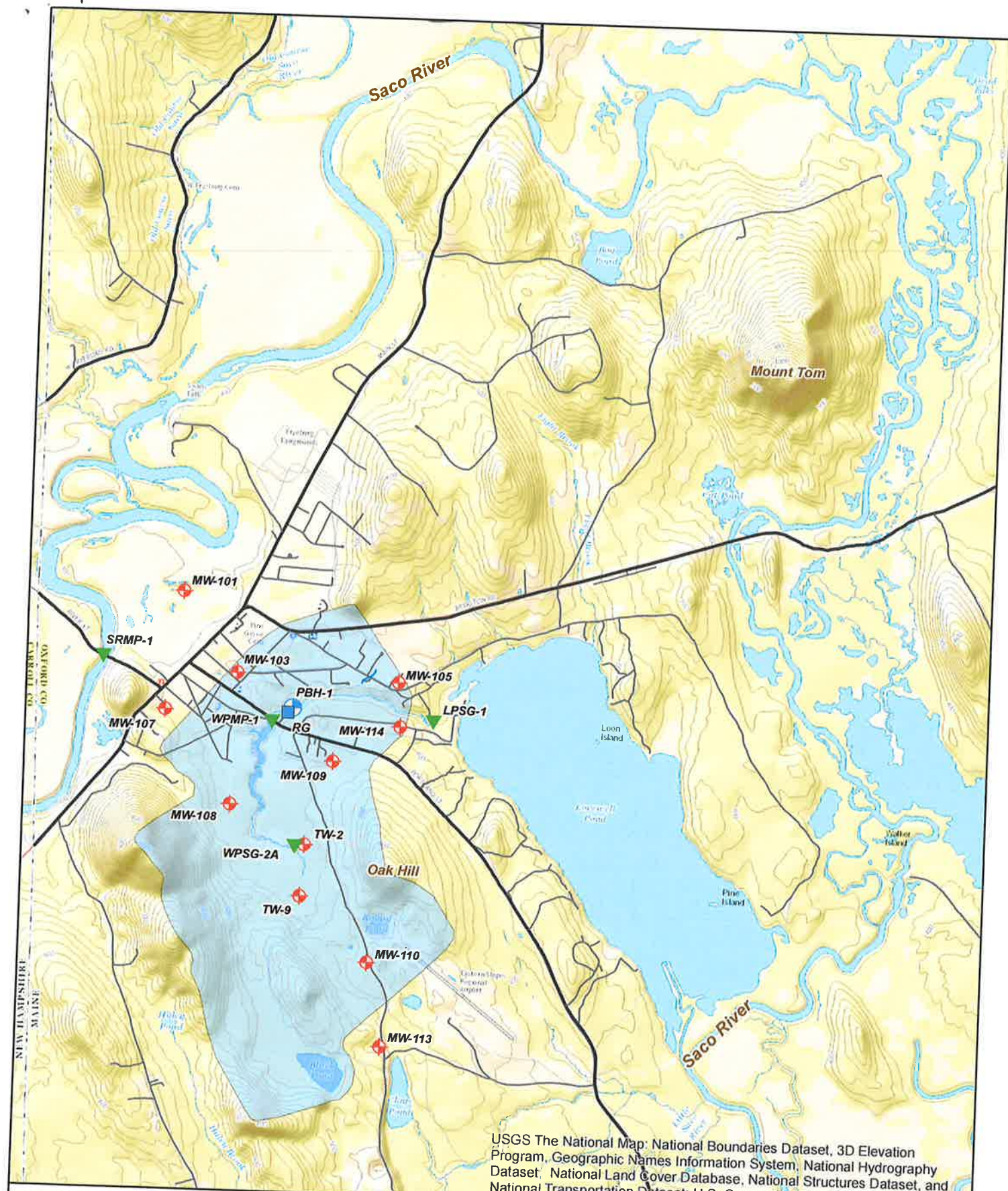
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

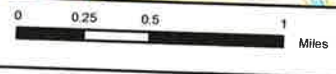
cc: Fryeburg Water Company (Mr. John Hastings)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



USGS The National Map: National Boundaries Dataset, 3D Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line

- BOREHOLE
- MONITORING WELL
- RAIN GAUGE
- SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE



NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.

DATE:
2/11/2016

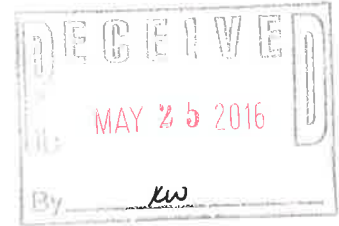
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Luetje Geological Services, LLC
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58 Fore Street
Portland, Maine 04101

May 16, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: March 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on March 18th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
MARCH 18th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	400.32
MW-103	421.42	412.14
MW-105	404.98	381.28
MW-107	432.05	427.66
MW-108	419.88	411.67
MW-109	420.08	399.14
MW-110	461.84	417.81
MW-113	441.11	421.28
MW-114	405.25	387.80
TW-2 ⁴	404.19	405.40
TW-9	409.17	410.47

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on March 18th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
MARCH 18th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	364.46
WPMP-1	401.22	397.70
SRMP-1	418.85	398.55
WPSG-2A	403.03 ¹	401.63

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for March 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
MARCH 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.59
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	3.64

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 11,587,615 gallons for the month of March 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

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: Fryeburg Water Company (Mr. John Hastings)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)

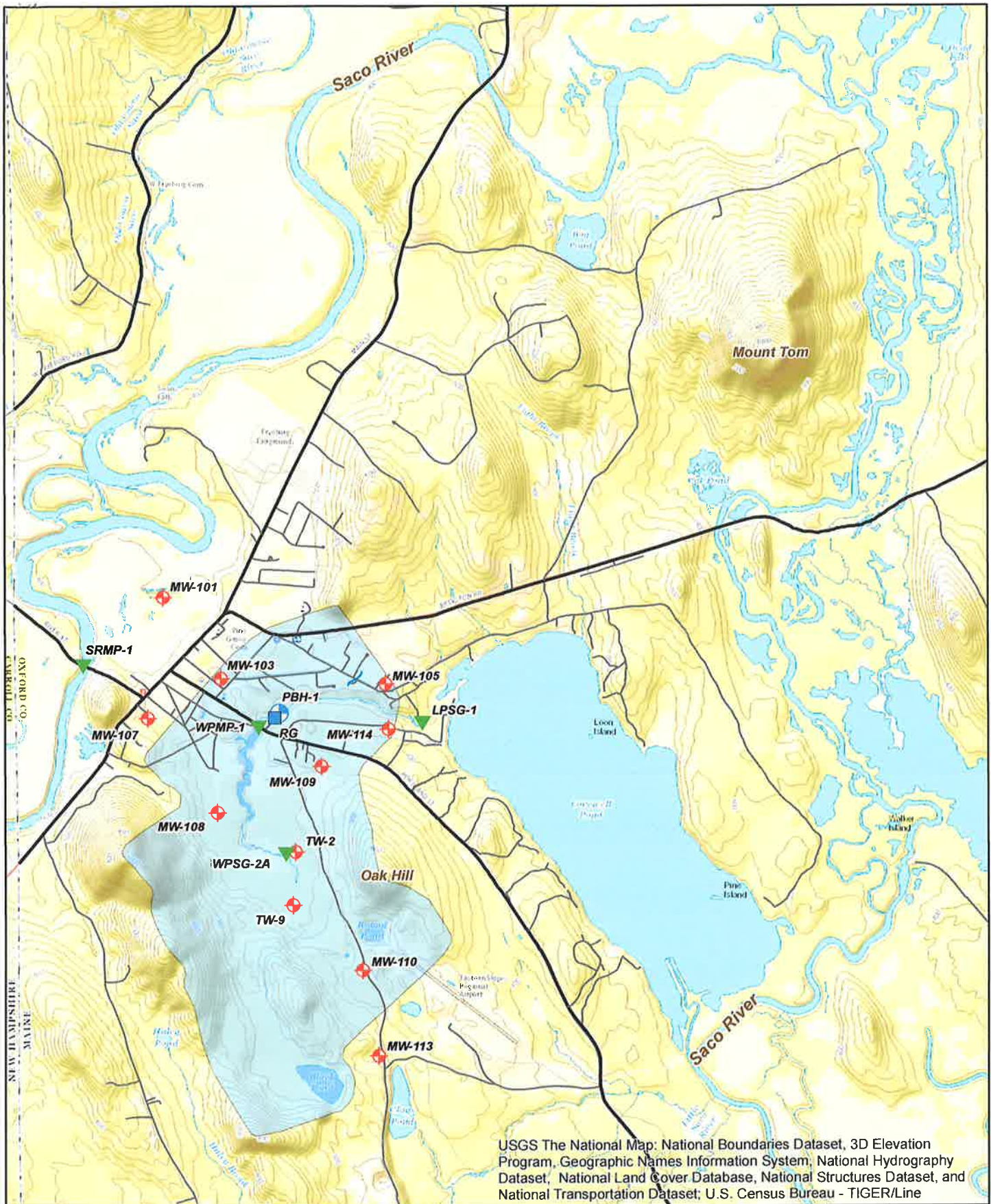


FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

0 0.25 0.5 1 Miles

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.

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DATE:
2/11/2016

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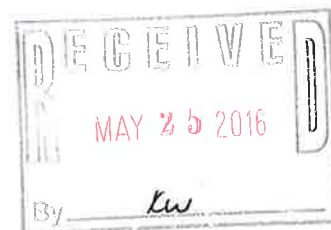
- BOREHOLE
- ◆ MONITORING WELL
- RAIN GAUGE
- ▼ SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

May 20, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: April 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

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GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on April 20th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
APRIL 20th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	399.53
MW-103	421.42	411.98
MW-105	404.98	380.92
MW-107	432.05	427.21
MW-108	419.88	411.62
MW-109	420.08	399.64
MW-110	461.84	419.34
MW-113	441.11	422.22
MW-114	405.25	386.47
TW-2 ⁴	404.19	406.22
TW-9	409.17	410.96

- Notes:
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 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
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Table 2 presents the surface water elevation data measured on April 20th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
APRIL 20th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.66
WPMP-1	401.22	397.54
SRMP-1	418.85	397.70
WPSG-2A	403.03 ¹	401.37

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
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PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for April 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
APRIL 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	2.53
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	2.54

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 8,598,405 gallons for the month of April 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

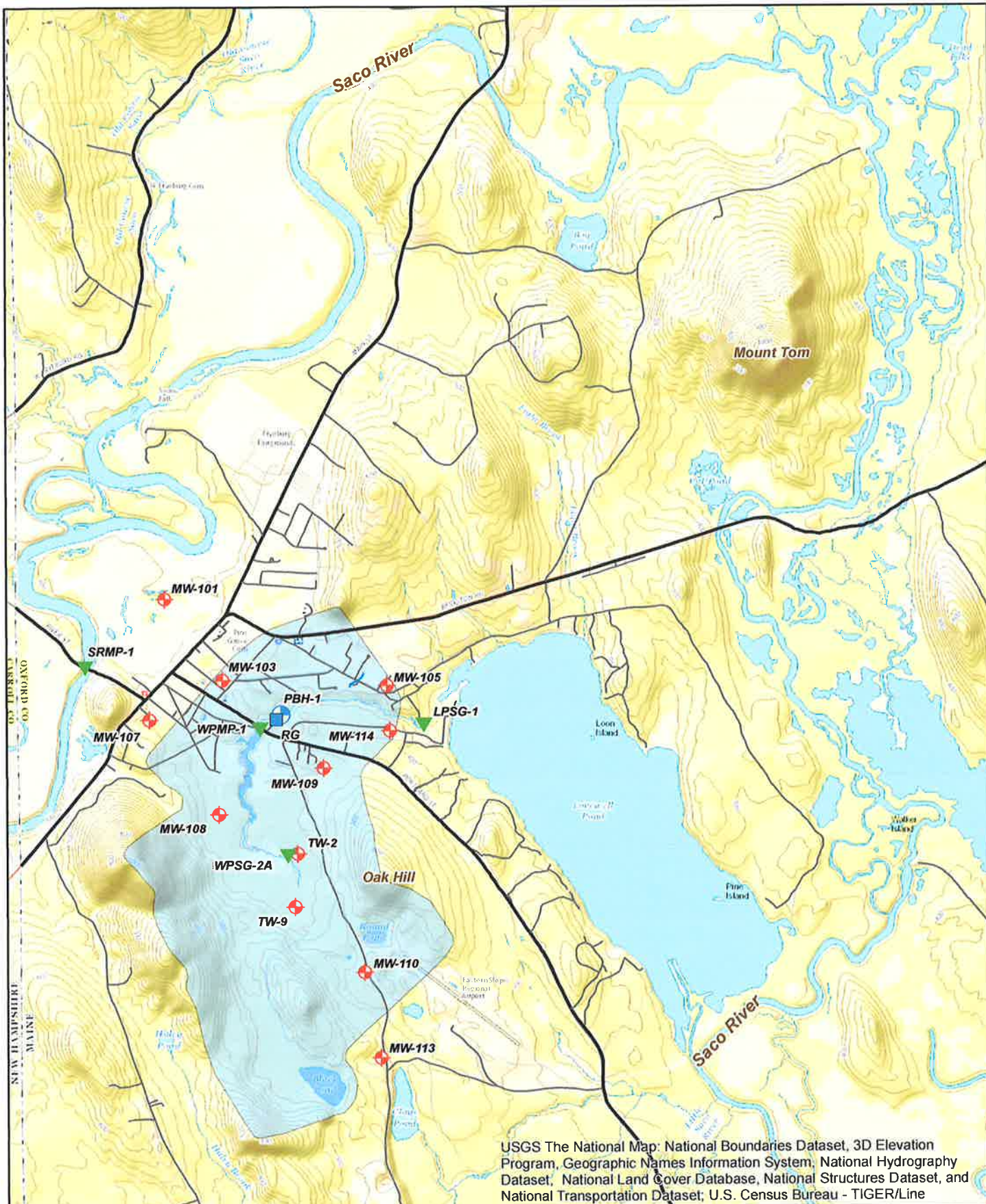
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USGS The National Map: National Boundaries Dataset, 3D Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line





-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE



NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS AND/OR ESRI ONLINE.

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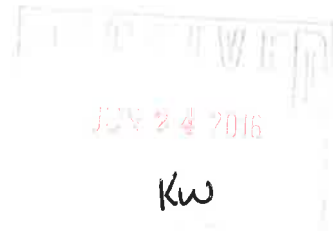
DATE:
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EQUINE GEOLOGICAL SERVICES
59 FORT STREET
PORTLAND, MAINE 04101
lgs@maine.rr.com



June 22, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: May 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on May 18th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
MAY 18th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	398.96
MW-103	421.42	411.59
MW-105	404.98	380.70
MW-107	432.05	426.31
MW-108	419.88	411.24
MW-109	420.08	399.37
MW-110	461.84	419.35
MW-113	441.11	422.42
MW-114	405.25	385.80
TW-2 ⁴	404.19	405.10
TW-9	409.17	410.82

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
3. MW refers to 'monitoring well'
4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on May 18th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
MAY 18th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.50
WPMP-1	401.22	397.89
SRMP-1	418.85	396.75
WPSG-2A	403.03 ¹	401.22

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for May 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
MAY 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	1.82
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	2.10

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 12,352,113 gallons for the month of May 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

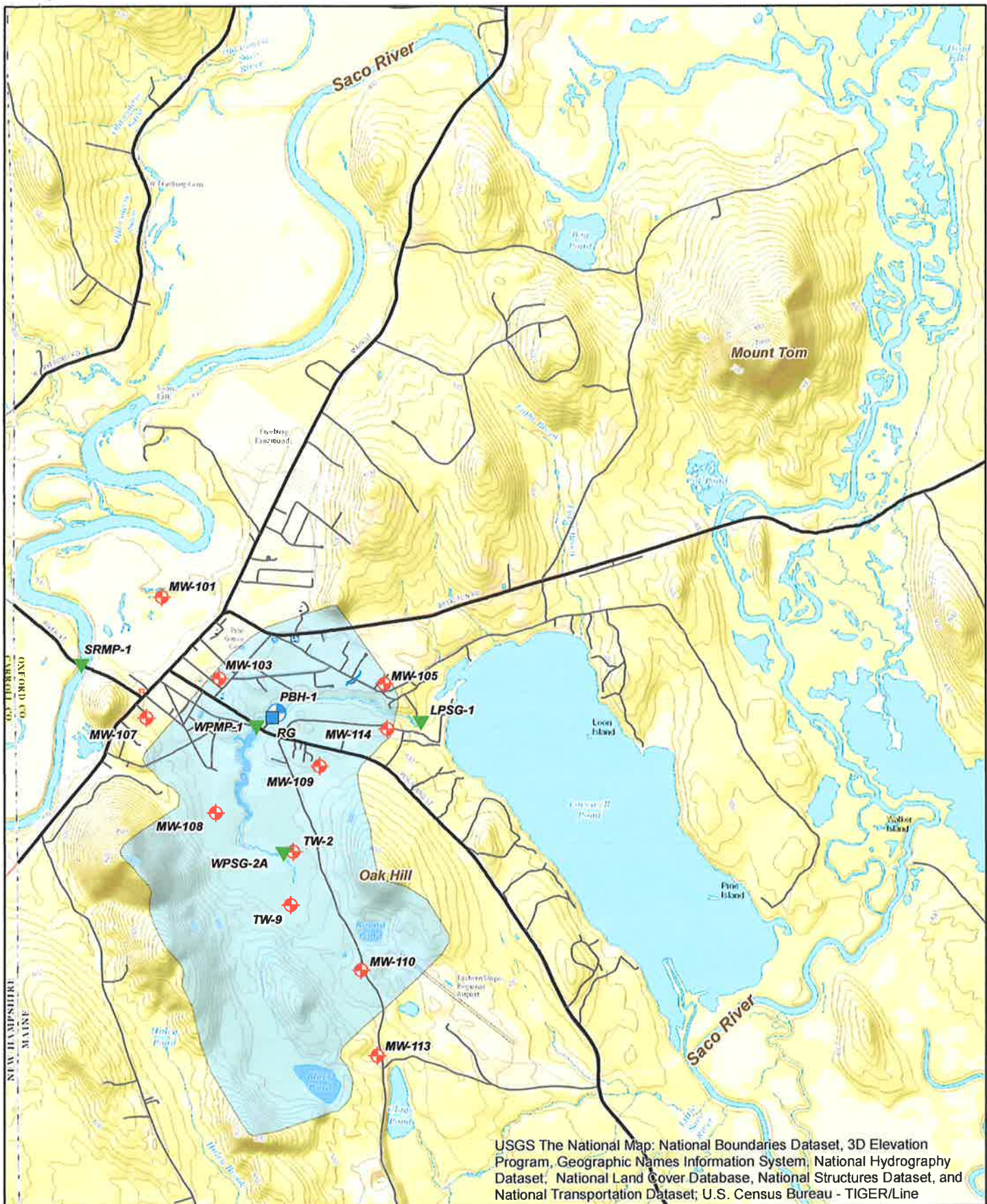
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. John Hastings)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



- BOREHOLE
- ◆ MONITORING WELL
- RAIN GAUGE
- ▼ SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

0 0.25 0.5 1 Miles

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.



DATE:
2/11/2016

LOS
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Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

July 22, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: June 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on June 20th, 2016.

TABLE 1: GROUNDWATER ELEVATION DATA
JUNE 20th, 2016

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	397.87
MW-103	421.42	411.03
MW-105	404.98	379.93
MW-107	432.05	424.58
MW-108	419.88	410.32
MW-109	420.08	398.65
MW-110	461.84	418.83
MW-113	441.11	421.82
MW-114	405.25	384.90
TW-2 ⁴	404.19	404.03
TW-9	409.17	410.19

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
3. MW refers to 'monitoring well'
4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on June 20th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
JUNE 20th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.35
WPMP-1	401.22	398.32
SRMP-1	418.85	395.90
WPSG-2A	403.03 ¹	400.95

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for June 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JUNE 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.20
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	3.20

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 15,018,327 gallons for the month of June 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

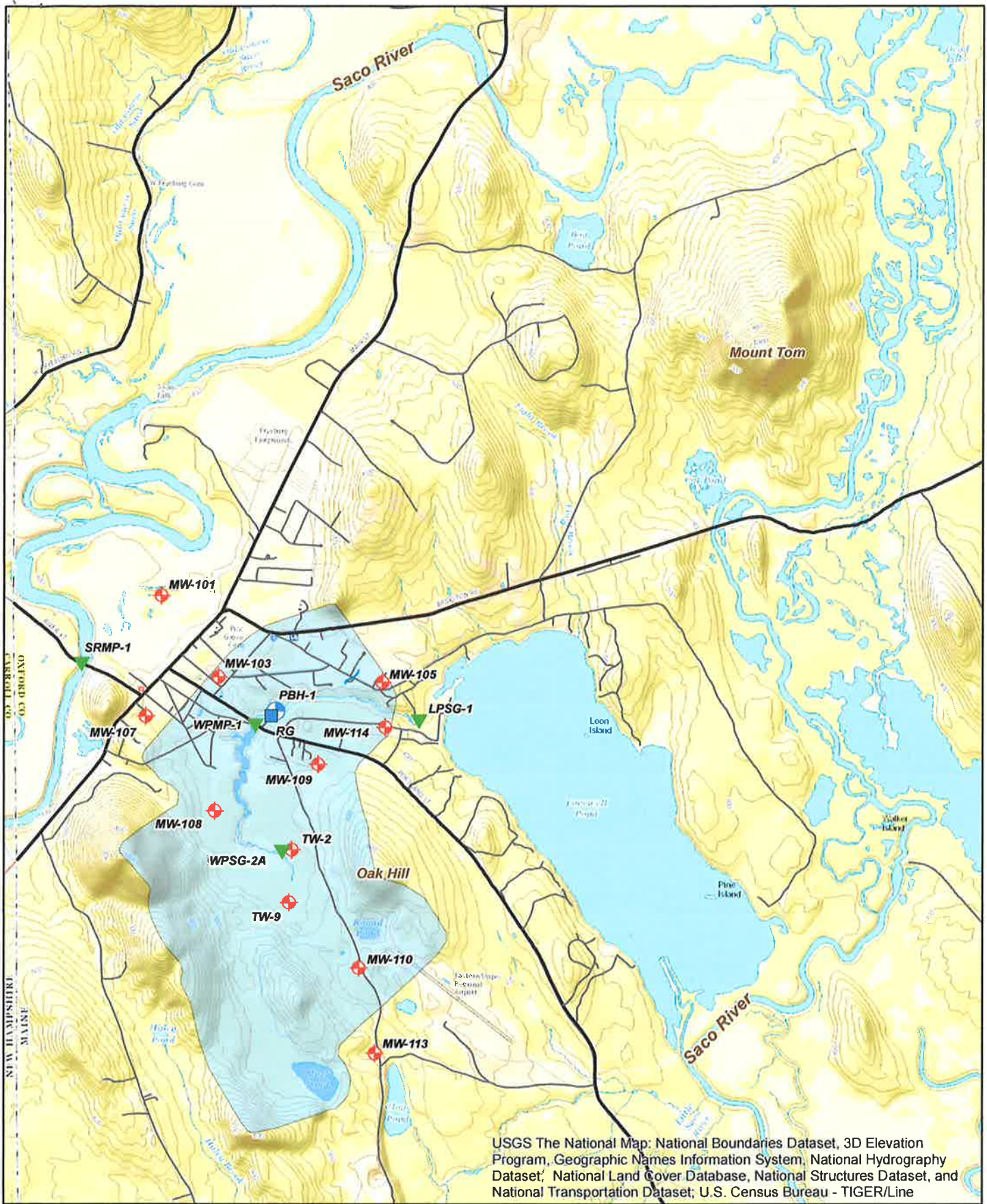
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. John Hastings)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



- BOREHOLE
- MONITORING WELL
- RAIN GAUGE
- SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

0 0.25 0.5 1 Miles

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.

N
DATE:
2/11/2016

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Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

August 23, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: July 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on July 19th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
JULY 19th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	397.64
MW-103	421.42	410.39
MW-105	404.98	379.47
MW-107	432.05	423.00
MW-108	419.88	409.38
MW-109	420.08	397.76
MW-110	461.84	418.14
MW-113	441.11	421.36
MW-114	405.25	383.86
TW-2 ⁴	404.19	404.18
TW-9	409.17	409.72

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on July 19th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
JULY 19th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.37
WPMP-1	401.22	398.13
SRMP-1	418.85	396.50
WPSG-2A	403.03 ¹	401.15

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for July 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JULY 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.18
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	4.88

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 19,587,724 gallons for the month of July 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

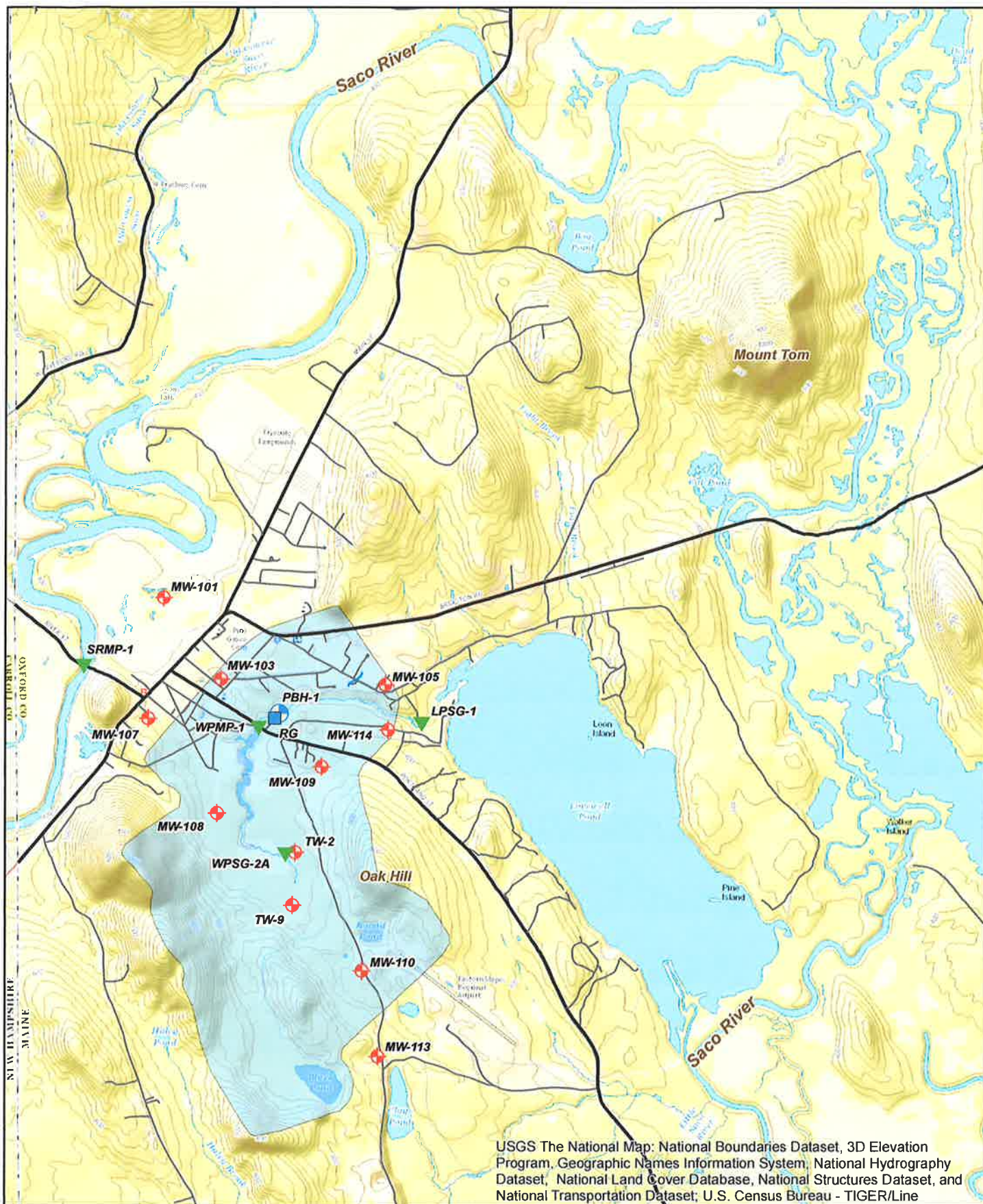
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. George Weston)
Maine Water Company (Mr. Rick Knowlton)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



- BOREHOLE
- MONITORING WELL
- RAIN GAUGE
- SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

0 0.25 0.5 1 Miles

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.

DATE:
2/11/2016

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OCT 03 2016

KML

Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

September 26, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: August 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on August 19th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
AUGUST 19th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	397.46
MW-103	421.42	409.91
MW-105	404.98	379.02
MW-107	432.05	421.80
MW-108	419.88	408.52
MW-109	420.08	396.88
MW-110	461.84	417.31
MW-113	441.11	420.81
MW-114	405.25	383.10
TW-2 ⁴	404.19	403.29
TW-9	409.17	408.99

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

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- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on August 19th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
AUGUST 19th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.37
WPMP-1	401.22	398.00
SRMP-1	418.85	396.35
WPSG-2A	403.03 ¹	400.98

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for August 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
AUGUST 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	2.20
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	2.59

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 19,368,220 gallons for the month of August 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

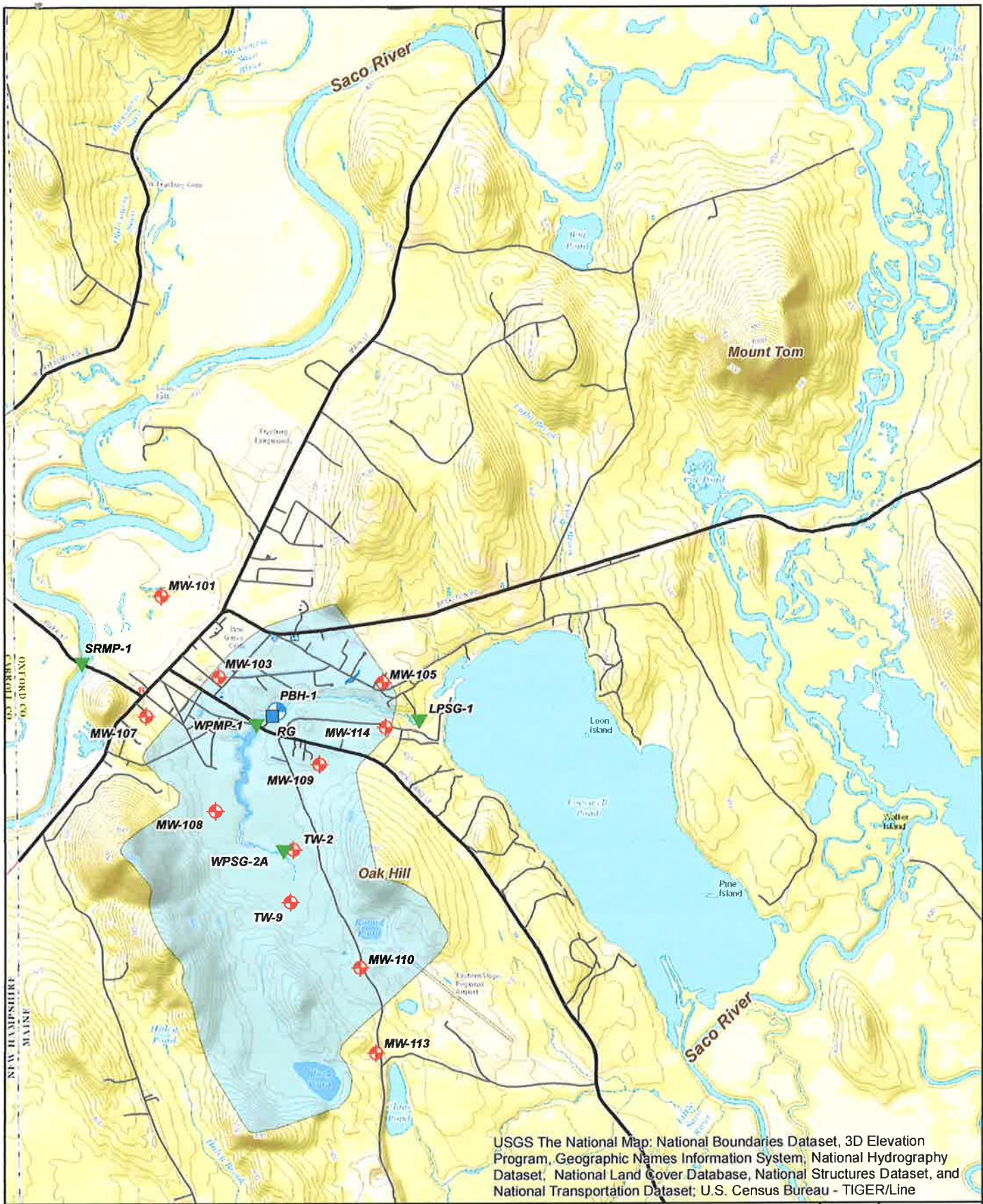
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Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. George Weston)
Maine Water Company (Mr. Rick Knowlton)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)








-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

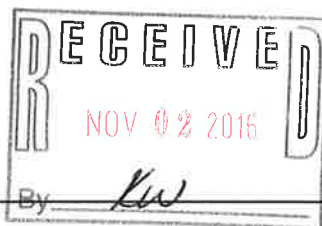
0 0.25 0.5 1 Miles

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.



DATE:
2/11/2016


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lgs@maine.com



Luetje Geological Services, LLC
Ed Luetje, CG
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October 26, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: September 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

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GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on September 20th, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
SEPTEMBER 20th, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	396.79
MW-103	421.42	409.19
MW-105	404.98	378.68
MW-107	432.05	420.62
MW-108	419.88	407.67
MW-109	420.08	396.56
MW-110	461.84	416.44
MW-113	441.11	420.29
MW-114	405.25	382.19
TW-2 ⁴	404.19	402.20
TW-9	409.17	408.04

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
3. MW refers to 'monitoring well'
4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on September 20th, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
SEPTEMBER 20th, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.36
WPMP-1	401.22	397.52
SRMP-1	418.85	396.15
WPSG-2A	403.03 ¹	400.87

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for September 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
SEPTEMBER 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	0.97
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	1.06

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 12,335,564 gallons for the month of September 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

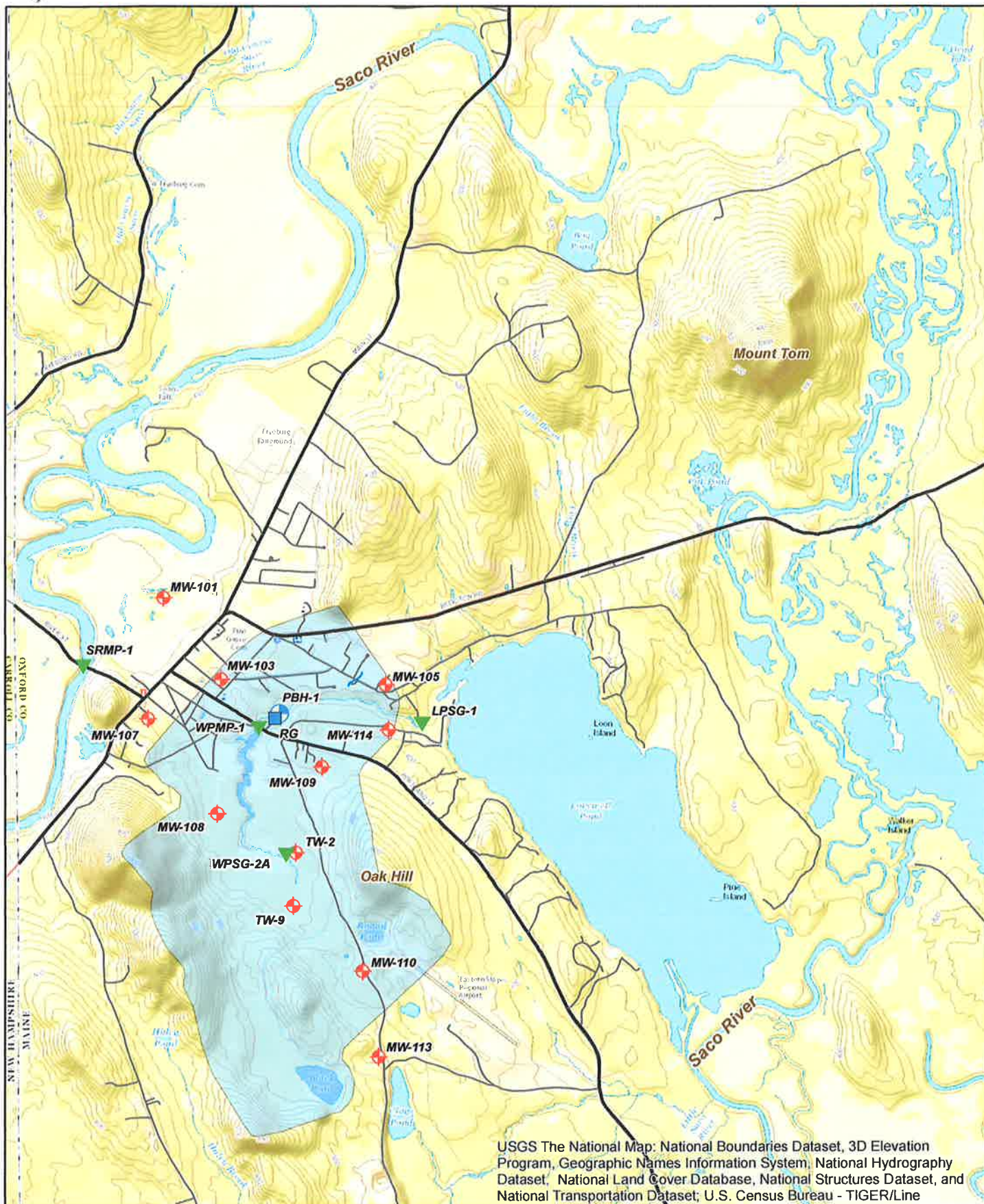
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. George Weston)
Maine Water Company (Mr. Rick Knowlton)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



USGS The National Map: National Boundaries Dataset, 3D Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line






-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE

0 0.25 0.5 1 Miles

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE
MAINE OFFICE OF GIS AND/OR ESRI ONLINE.



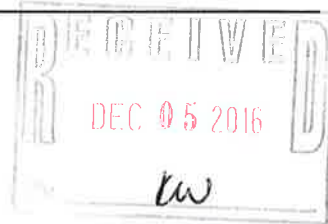
DATE:
2/11/2016



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PORTLAND, MAINE 04101
lgs@maine.rr.com



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101



November 23, 2016

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: October 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on October 21st, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
OCTOBER 21st, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	396.66
MW-103	421.42	408.57
MW-105	404.98	378.44
MW-107	432.05	419.70
MW-108	419.88	407.03
MW-109	420.08	396.28
MW-110	461.84	415.63
MW-113	441.11	419.76
MW-114	405.25	381.43
TW-2 ⁴	404.19	401.83
TW-9	409.17	407.44

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on October 21st, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
OCTOBER 21st, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.42
WPMP-1	401.22	397.52
SRMP-1	418.85	395.53
WPSG-2A	403.03 ¹	400.84

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for October 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
OCTOBER 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.68
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	5.28

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 9,996,898 gallons for the month of October 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

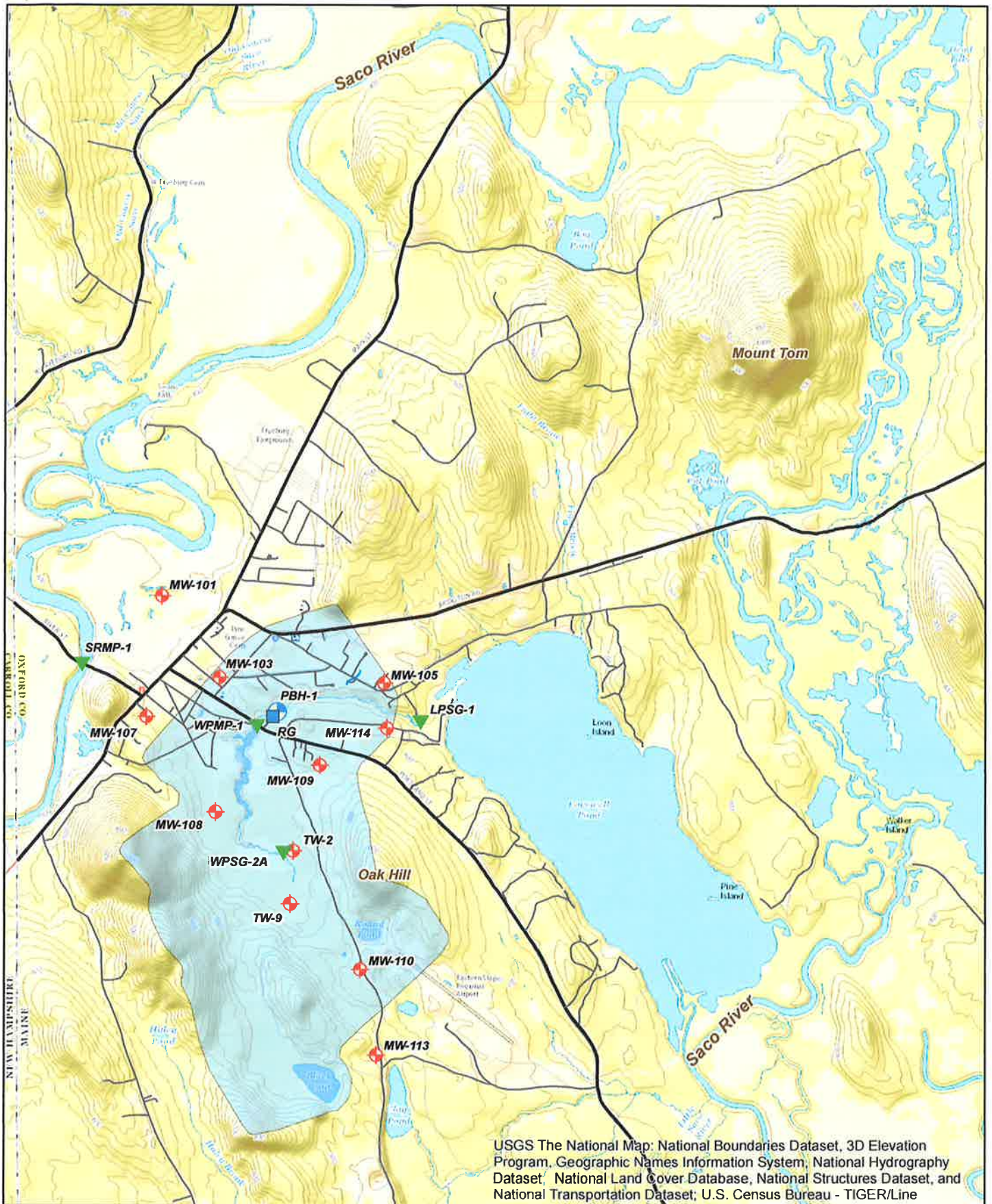
If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



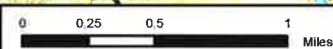
Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. George Weston)
Maine Water Company (Mr. Rick Knowlton, Mr. Aric Odone)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



- BOREHOLE
- MONITORING WELL
- RAIN GAUGE
- SURFACE WATER STATION
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
MONITORING LOCATIONS
EVERGREEN SPRING
FRYEBURG, MAINE



NOTES:
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DATE:
2/11/2016

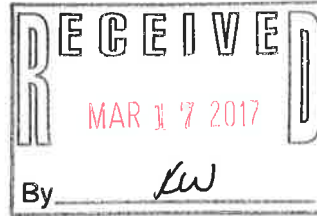
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Luetje Geological Services, LLC
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January 23, 2017

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: December 2016 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on December 21st, 2016.

**TABLE 1: GROUNDWATER ELEVATION DATA
DECEMBER 21st, 2016**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.32	398.25
MW-103	421.42	409.18
MW-105	404.98	379.19
MW-107	432.05	421.27
MW-108	419.88	408.99
MW-109	420.08	396.65
MW-110	461.84	414.80
MW-113	441.11	419.35
MW-114	405.25	383.96
TW-2 ⁴	404.19	Frozen
TW-9	409.17	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD. New reference elevations were provided by Bliss Associates in November 2015.
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Table 2 presents the surface water elevation data measured on December 21st, 2016.

**TABLE 2: SURFACE WATER ELEVATION DATA
DECEMBER 21st, 2016**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83 ¹	362.47
WPMP-1	401.22	Frozen
SRMP-1	418.85	Frozen
WPSG-2A	403.03 ¹	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD. New reference elevations were surveyed by LGS in early May 2016.
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Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for December 2016.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
DECEMBER 2016**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.01
Fryeburg Eastern Slopes Airport (ICAO Station KIZG) ¹	4.18

Notes: 1. Data provided by ICAO Station KIZG is preliminary prior to compilation of the Annual Report.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 10,601,608 gallons for the month of December 2016.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

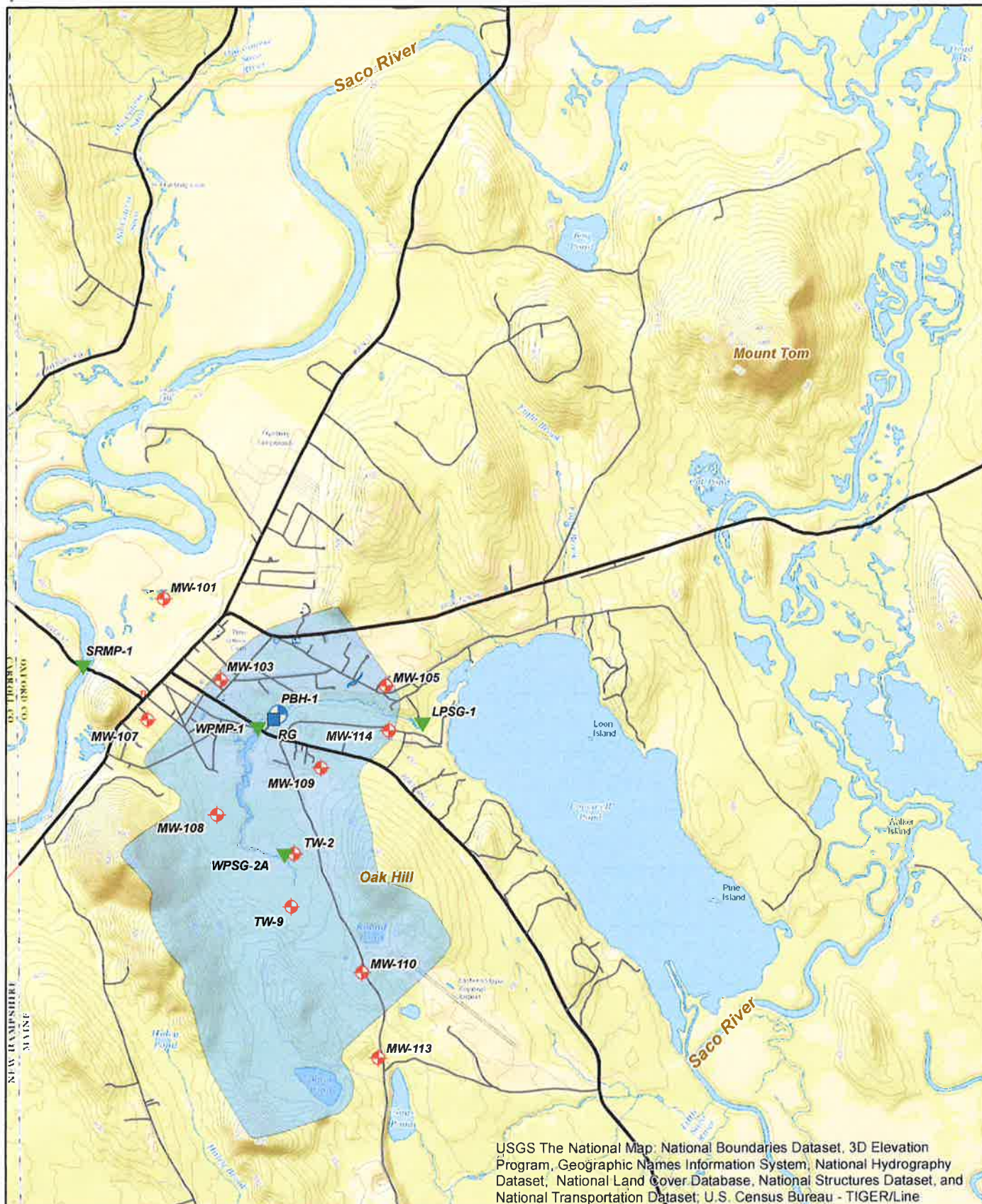
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Sincerely,
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FIGURE 1
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FRYEBURG, MAINE

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