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Technical Memorandum

To: John J. Boisvert, P.E., Chief Engineer File: 2421.08
 Pennichuck East Utility, Inc.

From: Devon W. Smith, P.E., Senior Project Engineer

cc: Keith A. Pratt, P.E., Josh Teixeira

Date: 1/29/2020

Subject: **Londonderry Distribution System Analysis**

The following Technical Memorandum summarizes Underwood Engineers' (UE) analysis of the Londonderry Core Distribution System in accordance with Engineering Service Request #1 and Amendment #1. This analysis shall supplement UE's letter titled "Preliminary Evaluation of PEU's Distribution System Londonderry, NH" dated October 18th, 2019.

1. INTRODUCTION

The Londonderry Core Distribution System (hereinafter the "System" or "Londonderry System") is owned and operated by the regulated public utility, Pennichuck East Utility, Inc (PEU). PEU has engaged Underwood Engineers to evaluate the System's current and future demand and available capacity at key locations. This analysis serves as the basis for the need for improvements including water storage in the System.

2. BACKGROUND & EXISTING CONDITIONS

The key assets within the System include the Cohas meter pit, the Mountain Homes booster pump station, the Gilcrest Road pressure reducing valve structure (the "PRV"), and the South Road booster pump station. Figure 1 provides an overview map of the System. The figure identifies the various pressure zones, the size of the water mains, and the locations of the assets referenced above. The System does not currently contain water storage.

In its current state, the System can be fed by two different connection points. Under normal operating conditions, the System's flow is supplied by a connection to Manchester Water Work's (MWW) distribution system near the intersection of Mammoth Road (Route 128) and Rockingham Road (Route 28). The MWW system contains five (5) million gallons of water storage in Londonderry; however, supply into the System is limited by a Purchase Water Agreement between PEU and MWW. This Purchase Water Agreement limits PEU's water usage to an Average Daily Flow (ADF) of 2.1 million gallons per day (gpd) or 1,458

gallons per minute (gpm) and a Maximum Daily Flow (MDF) of 3.5 MGD or 2,430 gpm. Because the System does not have water storage to buffer peak flows, PEU is paying an increased water rate to MWW in order to be able to withdraw higher flows from MWW's distribution system. Further, MWW is only required to provide PEU a fire flow rate of 750 gpm. This connection is metered at the Cohas meter pit. The second connection to the System is an emergency connection to the Derry distribution system. This emergency connection is intended to provide additional fire flow capacity for the Home Depot off of Route 102. PEU reported that, through an agreement with a developer, PEU is obligated to provide an available fire flow of 2,500 gpm to Home Depot.

The Mountain Homes booster pump station has four pumps with a total design pumping capacity of 2,400 gpm. The two larger pumps each have a pumping capacity of 900 gpm at a total dynamic head of 235 feet. The two smaller pumps each have a pumping capacity of 300 gpm, each at a total dynamic head of 215 feet. See Appendix D for Mountain Home pump curves. This pump station operates on system pressure and the controls are set to maintain a discharge pressure of 106 pounds per square inch (psi). See Appendix E for Mountain Homes pump station functional description.

The South Road booster pump station contains two pumps with a total pumping capacity of 1,300 gpm, although the pump station controls are set to limit the flow to 1,250 gpm. Each pump has a pumping capacity of 650 gpm at a total dynamic head of 200 feet. See Appendix F for South Road pump curves. This pump station also operates based on system pressure and the controls are set to maintain a discharge pressure of 110 psi. See Appendix G for South Road pump station functional description.

The System contains four different pressure zones which are identified on Figure 1. The actual observed static grade line of the pressure zones is noted in Section 4 of this report. The 620 and 498 pressure zones comprise the majority of the system and are the focus of this analysis. The pressure zones are as follows:

- The 480 ft Mean Sea Level (MSL) pressure zone (480 zone) extends between the MWW connection and the Mountain Homes booster pump station. This pressure zone is fed by the MWW connection and serves northern Londonderry. The hydraulic grade line (HGL) of this pressure zone is set by the water surface level of MWW's water storage tanks. The overflow of the MWW storage tank is at EL 480.5 ft MSL.
- The 620 ft MSL pressure zone (620 zone) operates on the highest HGL and extends between the Mountain Homes booster pump station and the Gilcrest Road PRV structure. This zone is fed solely by the 480 zone and serves central Londonderry. The HGL of this pressure zone is maintained by the Mountain Homes booster pump station.

- The 498 ft MSL pressure zone (498 zone) begins downstream of the Gilcrest PRV structure and serves southern Londonderry, primarily the commercial businesses along Route 102. The 498 pressure zone is normally fed by the 620 zone, through the Gilcrest Road PRV, but does contain that emergency connection with Derry which allows for high flow capacity. The Derry connection is located off of Kendell Pond Road and feeds the suction line of the South Road booster pump station.
- The 540 ft MSL pressure zone (540 zone) is fed by the 620 zone and provides water to a small subdivision. This zone requires a pressure reducing valve to limit water pressure because of the elevation of the services within the zone. This pressure zone is considered incidental in relation to the entire Londonderry System.

The Gilcrest Road pressure reducing valve structure consists of three different pressure reducing valves that open in succession based on the downstream pressure. The pressure set points for the pressure reducing valves are as follows:

- 2" PRV set to maintain a downstream pressure of 64 psi
- 4" PRV set to maintain a downstream pressure of 60 psi
- 8" PRV set to maintain a downstream pressure of 56 psi

The PRV structure contains an emergency close feature to prevent over-pressurizing the 498 zone. This emergency feature closes if the downstream pressure of the valve in the 498 zone exceeds 100 psi.

The known issues in the System are as follows:

- The System does not contain water storage; thus, all system demand must be met by pumping capacity.
- The 480 pressure zone contains approximately one mile of eight inch water main that causes a large amount of head loss at higher flow rates which in turn lowers the HGL and ultimately limits flow into the 540 and 620 pressure zones.
- There is only one connection point to feed the 480, 620, and 540 pressure zones.
- The majority of System is linear. Only small portions of the System have pipe loops, which provide redundancy.
- The Gilcrest Road PRV structure is in poor condition and frequently enters emergency shutdown mode unexpectedly. When the PRV structure is in an emergency shutdown mode, the 498 zone can only be fed by the emergency connection to Derry. PEU has noted that funding has been allocated in their capital budget to replace this structure in the year 2020 or 2021.

3. SYSTEM DEMAND

Appendix A contains hourly flow data from the Cohas meter pit and Appendix C contains monthly flow data. Flow data was provided to UE by PEU and was used to determine the ADF, MDF, and the Peak Hour Flow (PHF) in the distribution system. The system demand flow rates are summarized below in Table 1.

	ADF (Note 1)	MDF (Note 2)	PHF (Note 3)
Gal/Month	10,945,451	15,560,490.00	N/A
Gal/Day	353,079	518,683.00	1,624,320.00
MGD	0.35	0.52	1.62
gpm	245	360	1,128
Peak Factor	1.0	1.47	4.60

Table 1: Londonderry Core System Demand

Notes:

1. ADF was calculated based on the average monthly flow divided by 30 days, see Appendix C.
 - o Data Period: January 2015 to December 2015
2. MDF was calculated based on the highest monthly flow divided by the number of days in that month, see Appendix C.
 - o Data Period: January 2015 to December 2015
 - o The maximum monthly demand occurred on September 2015.
 - o MDF was calculated by dividing the month with the highest demand by the number of days in that month. Since the calculated MDF is an average day flow of the month with the highest monthly demand, the MDF and peak factor are slightly less than the actual MDF.
3. Peak hourly flow was observed on June 18th, 2018, see Appendix B.
 - o Data Period: 5/26/18 to 8/30/18

The period of the flow data provided to UE was limited. System demand flows could be further refined if three years of flow data is provided. The calculated MDF peaking factor is consistent with expected peaking factors noted in AWWA M32 Distribution Network Analysis for Water Utilities. The calculated PHF peaking factor is high but reasonable considering the small size of the System.

PEU has noted that the future Woodmont Commons Development is expected to increase system max day demand by 549,996 gpd or 382 gpm. Additionally, future customer growth in Londonderry is expected to increase by 121,553 gpd or 84 gpm. This results in a future MDF of 1,190,231 gpm or 827 gpm.

4. FIELD TESTING

On November 26th and 27th of 2019, UE and PEU performed three flow tests at key locations throughout the Londonderry System. These tests were performed to further define the available flow capacity in the 620 and 498 pressure zones. Appendix A contains the flow test procedures, locations of the flow tests, and the field data. Hydrant flow calculations were performed by PEU using PEU procedures and equipment. The flow tests were performed between 12:08 AM and 1:28 AM when demand was at its lowest. A base flow of approximately 40 gpm existed in the system. Below is a summary of each flow test:

Flow Tests #1 – Londonderry Highschool (620 Zone)

- Flow
 - Mountain Homes Flow Meter = 1,620 to 1,651 gpm
 - Calculated Hydrant Flow = 1,678 gpm
- Pressure
 - 7 psi (HGL of 386 ft) was observed at the Mountain Homes pump station suction piping pressure gauge.
 - 47 psi (HGL of 479 ft) was observed at the Mountain Homes pump station discharge piping pressure gauge.
 - Pressure at the highest service (El 490) in the 620 zone was zero or slightly negative.

Flow Tests #2 – Gilcrest Road (620 Zone)

- Flow
 - Mountain Homes PS Flow Meter = 1,580 to 1,620 gpm
 - Calculated Hydrant Flow = 1,562 to 1,592 gpm
- Pressure
 - 7 psi (HGL of 386 ft) was observed at the Mountain Homes pump station suction piping pressure gauge.
 - 52 psi (HGL of 490 ft) was observed at the Mountain Homes pump station discharge piping pressure gauge.
 - Pressure at the highest service (El 490) in the 620 zone was zero or slightly negative.

Flow Tests #3 – Home Depot (498 Zone)

- Flow
 - Mountain Homes Flow Meter = 1,270 to 1,570 gpm
 - South Road pump station* = 632 to 852 gpm
 - Calculated Hydrant Flow = 2,122 to 2,166 gpm

* The flow meter at the South Road pump station appears to be faulty. Flow at the South Road pump station was calculated by subtracting the flow meter reading from the Mountain Homes booster pump station from the calculated hydrant flow.

- Pressure
 - 20 psi (HGL of 416 ft) was observed at the Mountain Homes pump station suction piping pressure gauge.
 - 105 psi (HGL of 613 ft) was observed at the Mountain Homes pump station discharge piping pressure gauge.
 - Pressure at the highest service (El 490) remained above 50 psi (HGL of 600).

Below is the observed static head of the pressure zones based on field data obtained during the flow tests:

- 480 zone = 476 ft MSL
- 620 zone = 613 ft MSL
- 498 zone = 513 ft MSL

5. DISCUSSION

Below is a list of observations that were noted during the flow tests:

- Flow test #2 yielded similar results to flow test #1.
- In general, the pressure throughout the System remained above 20 psi during flow test #3.
- The System never achieved steady state during flow test #3. This is apparent based on the pressure transducer data from location 4 which can be found in Appendix A. This was due to the Gilcrest Road PRV opening in sequence as the pressure in the 498 zone fell and the South Road pump station being called to service to maintain system pressure.
- During flow tests #1 and #2 the suction pressure at the Mountain Homes pump station fell below 12 psi, which is approximately a 90-foot drop in HGL between the Cohas meter pit and the Mountain Homes pump station. The Mountain Homes pump station is designed to maintain a discharge pressure of 93 psi at flows greater than 1,250 gpm but the discharge pressure was observed to be approximately 45 psi during both tests. The Mountain Homes pump station SCADA programming contains a control setting that slows down the speed of the pump with a VFD if the suction pressure falls below 12 psi in order to regain suction pressure. See Appendix E for Mountain Homes pump station functional description. Although the discharge pressure appeared to be limited, flows of approximately 1,600 gpm were still observed. Further investigation may be needed to confirm the discharge pressure was limited due to SCADA programming. The Mountain Homes pump station does not contain a flow control, pressure relief, or pressure sustaining valve.

- During flow test #3 the suction pressure at the Mountain Homes pump station never fell below 12 psi and the discharge pressure ranged between 98 to 116 psi. The observed discharge pressures were the intended discharge pressure for this station.
- During both flow tests #1 and #2 a pump was called to service at the South Road pump station which indicates that the 620 zone was no longer meeting the demand of the 498 zone.
- The Gilcrest Road PRV structure went into emergency shut down mode during flow test #3. Location 6A was the next hydrant upstream of the flow test. Shortly after the hydrant was closed (minute 12), a pressure of 118 psi was observed at location 6A. This pressure spike is assumed to coincide with the PRV structure entering into emergency shut down mode.
- The flow meter at the South Road pump station appears to be faulty as the flow meter indicated that 24,688 gpm was pumped through the station during minute 8 of flow test #3 which greatly exceed the capacity of the pump station.

Figure 2 summarizes the hydraulic grade line of the distribution system during each flow test. The hydraulic grade line did not diminish due to friction or minor losses in the 620 and 498 pressure zone. This indicates that the distribution mains are adequity sized and not limiting capacity in these two pressure zones. The primary issue is the limited pumping capacity and the stretch of 8” main in the 480 pressure zone that significantly lowers the HGL.

Flows observed during flow tests #1 and #2 in the 620 zone were both approximately 1,600 gpm, although system pressure fell close to zero psi in two locations. Flow observed during flow test #3 at the Mountain Homes pump station was approximately 1,400 gpm and flow at the South Road pump station was approximately 700 gpm for a combined flow of 2,100 gpm. Because pressures generally remained above 20 psi throughout the entire System during flow test #3 we believe that flow test #3 is most representative of the available capacity of the System based on the current operating configurations. Below is a summary of available capacity in the 620 zone and the 498 zone:

- Available flow capacity in the 620 zone is approximately **1,400 gpm.**
- Available flow capacity in the 498 zone is approximately **2,100 gpm.**

6. CONCLUSION

The New Hampshire Department of Environmental Services (NHDES) follows the Recommended Standards for Water Works, commonly referred to as the “Ten State Standards.” Under Section 6.3 (Pumps) and Section 8.2 (System Design) of the Ten State Standards, the Londonderry Core Distribution System must be able to meet both the maximum domestic demand and fire flows simultaneously and the maximum domestic demand with the largest pump out of service.

Our analysis concludes that the current Londonderry System cannot meet the required fire flows for Home Depot even at times of low or zero demand. Arguably, the theoretical pumping capacity of the Mountain Homes pump station, with the largest pump of service, can meet the maximum domestic demand. However, in reality the Mountain Homes pump station may not be able to meet maximum domestic demand due to hydraulic restrictions associated with the section of 8 inch main. Further, please note that all four pumps were called to service during the flow tests. The available flow with the largest pump out of service will be less than the available flow capacity summarized in Section 5 of this report. Additional field studies or water modeling should be performed to determine if the System can meet the maximum domestic demand with the largest pump out of service. Alternatively, other options could be considered that would have the additional advantage of providing redundancy.

The following improvements could be implemented to achieve the NHDES flow requirements noted above:

- Elevated Storage
 - Because average day flows are substantially less than the available pumping capacity, water storage can be sized and located at an elevation to meet maximum domestic demand and fire flows. Water storage will provide resiliency to the system as it will act as another source of water supply should a failure occur in the mostly linear system. Additionally, if storage is provided, PEU can reduce the available water usage limits in the Purchase Water Agreement with MWW which will reduce water rates for users. The section of water main that acts as a bottle neck would not need to be replaced with larger diameter pipe.
- Ground Level Storage and Pumping
 - Ground level storage and pumping provides similar benefits to elevated storage but at a higher capital and operation and maintenance costs, and with less system reliability because there are more single points of failure.
- Increase Water Main Size and Pumping Capacity



- Larger water main can be constructed to eliminate the bottle neck along with pumping upgrades at the Mountain Homes pump station. This alternative will not be able to reduce available water usage limits in the Purchase Water Agreement with MWW. This option presents the highest capital cost and the least system resiliency as it contains the most single points of failure.

Underwood Engineers recommends constructing an elevated storage tank because this option provides the most system resiliency and reliability at the lowest cost while maintaining acceptable system pressure. Please note that in the Fall of 2019 PEU applied for a height variance to construct an elevated water storage tank and the Londonderry Zoning Board denied their request. PEU is currently investigating alternative system improvements that will meet the NHDES flow requirements and allow for future demand. As a follow-up to this analysis, UE will be performing additional studies to confirm the basis of design for the system improvements that PEU wishes to proceed with.

Please call if you have any questions.

Very truly yours,

UNDERWOOD ENGINEERS, INC.

A handwritten signature in blue ink that reads "Devon W. Smith".

Devon W. Smith, PE
Sr. Project Engineer

A handwritten signature in blue ink that reads "Keith A. Pratt".
For

Keith A. Pratt, PE
President

7. LIST OF FIGURES

1. Figure 1 - Londonderry Core Distribution System Map
2. Figure 2 – HGL Profile

8. LIST OF APPENDICES

1. APPENDIX A - UE Flow Test 11.26.19
2. APPENDIX B - Cohas Meter Pit Flow Data 5/26/18 – 8/30/18
3. APPENDIX C - 2015 Monthly Flow Data
4. APPENDIX D - Mountain Homes Mammoth Road Pump Curves
5. APPENDIX E - Mountain Home Estates SCADA
6. APPENDIX F - South Road Booster Station Pumps Curves
7. APPENDIX G - South Road SCADA

APPENDIX A

UNDERWOOD ENGINEERS'
FLOW TEST
NOVEMBER 26, 2019

Londonderry Distribution Analysis - Flow Test Protocol REV 2

Job No: 2421

Date: 11/26/19

Purpose: The proposed field work is to calibrate the Londonderry distribution water model.

- Flow Test 1 - Determine available capacity at high school in 620 pressure zone.
- Flow Test 2 - Determine available capacity for Future Woodmont commons in 620 pressure zone.
- Flow Test 3 - Determine available capacity at Home Depot in 498 pressure zone.

Equipment:

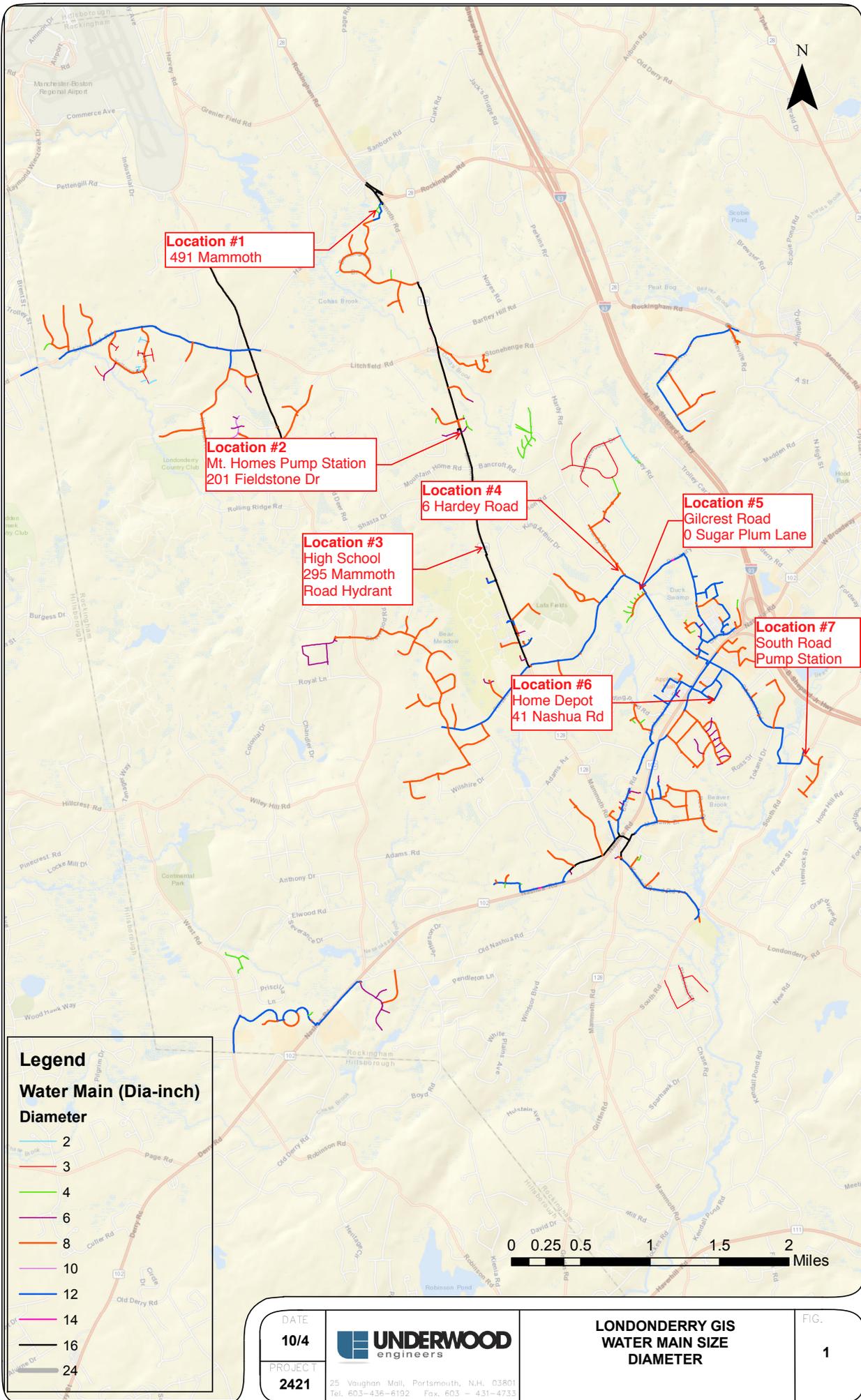
- **Required Staff = 7 Min**
 - **Traveling Flow Test Team – (2 MIN)**
 - Hydrant Operator
 - Log pitot pressure or flow
 - **Stationary Location #2 – Mountain Homes Pump Station (1 MIN)**
 - Log flow and suction and discharge pressure
 - **Stationary Location #3 – High School (1 MIN)**
 - Log Pressure
 - **Stationary Location #5 – Gilcrest Road (1 MIN)**
 - Log Pressure
 - **Stationary Location #6 – Home Depot (1 MIN)**
 - Log Pressure
 - **Stationary Location #7 – South Road Pump Station (1 MIN)**
 - Log flow and suction and discharge pressure
- (1) 4.5" Hydrant diffuser
- (5) Hydrant Pressure gauge
 - (2) digital hydrant pressure recorders provide by UE
 - (3) hydrant pressure gauges

Procedure:

- Flush Hydrant prior to installing gauges
- Let system calibrate before starting flow test
- Record data on 1 min intervals
- Start logging 5 mins before flow test, 5 min during flow test and 5 mins after flow test (15 mins total)
- Bleed hydrants after all flow tests to discharge turbid water

Communication & Coordination

- **Meeting Location:** 201 Fieldstone Dr, Londonderry, NH 03053
 - Mt. Homes Pump Station
- **Meeting Time:** 10 PM
- **Dial-in #:** 1-844-375-6211
- **Conference Code:** 2144375362



Location #1
491 Mammoth

Location #2
Mt. Homes Pump Station
201 Fieldstone Dr

Location #3
High School
295 Mammoth
Road Hydrant

Location #4
6 Hardey Road

Location #5
Gilcrest Road
0 Sugar Plum Lane

Location #6
Home Depot
41 Nashua Rd

Location #7
South Road
Pump Station

Legend

Water Main (Dia-inch)

Diameter

- 2
- 3
- 4
- 6
- 8
- 10
- 12
- 14
- 16
- 24



DATE 10/4		LONDONDERRY GIS WATER MAIN SIZE DIAMETER	FIG. 1
PROJECT 2421			25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733

Location #1

213 ROCKINGHAM RD

Google Directions Zoom

View Details

Add a New Document

Google Maps Link

Town of Londonderry

Property Record Card

Zoning Ordinance Website

Property

Address 213 ROCKINGHAM RD

Parcel ID 015 023 1

Area 39,204.00 SF

Ownership

Name BUONGIORNO REALEST HOLDNGS LLC

Address 213 ROCKINGHAM RD LONDONDERRY, NH 03053

Valuation

Total \$318,000

Buildings \$111,000

Land \$200,500

Last Sale \$185,000 on 2002-02-20

Deed Book and Page 3727-0058

Location #1
- UE Pressure Logger
- Unmanned

Cohas Landing

015 026 0

015 135 0

015 142 0

015 147 0

015 144 0

015 145 0

015 150 0

015 021 0

015 025 1

015 024 0

015 133 0

015 148 0

015 146 0

015 133 1

015 132 0

015 149 0

015 023 1

015 134 1

015 125 0

015 022 1

015 023 1

015 128 0

015 019 0

015 131C 0

015 126 0

015 020 0

015 117 1

015 130 0

015 113 0

015 125 0

015 114 0

015 112 0

015 111 0

015 124 0

015 110 5

015 110 6

015 115 0

015 110 4

015 110 3

015 110 0

015 110 1

015 110 2

015 109 0

015 115 0

Location #3

295 MAMMOTH RD

Google Directions Zoom

View Details

Add a New Document

Google Maps Link

Town of Londonderry

Property Record Card

Zoning Ordinance Website

Property

Address	295 MAMMOTH RD
Parcel ID	009 043 0
Area	5,880,600.00 SF

Ownership

Name	LONDONDERRY SCHOOL DISTRICT
Address	6A KITTY HAWK LANDING LONDONDERRY, NH 03053

Valuation

Total	\$21,460,300
Buildings	\$19,164,700
Land	\$2,200,800
Last Sale	\$0 on

Deed Book and Page [Link](#)

Location #3A
- Pressure Gauge
- Manned during all tests

Location #3B
- Flow Test Hydrant
- Manned Only During Flow Test #1

Map labels: Panther A & B Park, Varsity Baseball Field, Stadium Field, Lacross/Soccer Game Field, Track Field, Soccer Practice Field, PE Field, Multi Purpose Practice Field, MT Game Field, Matthew Thornton, Central Fire Station, Leach Library, School District Office Town Hall, Police Facility, Cable Studio, Nelson Field, LAFA, Tennis Courts, Playground, Pocket Field, Utility Field, Perkins Field, Founders Field, Macinnis Field, Forrest Field, Presidents Field, Diamond Field, Basketball Court, Skate Park.

Location #4

2 SPRING RD

Street View

Google

Google Directions Zoom

View Details

Add a New Document

Google Maps Link

Town of Londonderry

Property Record Card

Zoning Ordinance Website

Property

Address ~~2 SPRING RD~~

Parcel ID 010 016 50

Area 49,222.80 SF

Ownership

Name WHITE MARY M

Address 2 SPRING RD
LONDONDERRY, NH 03053

Valuation

Total \$361,400

Buildings \$241,700

Land \$113,000

Last Sale \$235,000 on 2011-03-14

Deed Book and 5200-2789

Location #4
- UE Pressure Logger
- Unmanned

Map labels: BANCROFT RD, GORDON DR, KING HENRY DR, OTTERSON RD, DARDROW WY, KING ARTHUR DR, KING EDWARD DR, KING CHARLES DR, KING PHILLIP DR, WALLACE CIR, KING GEORGE DR, PHEASANT RUN RD, HARDY RD, WEDGEWOOD DR, DRESDEN WY, SPRING RD, KITT LN, KIM AVE, GARY DR, PILLSBURY RD, HOVEY RD.

Location #5

0 SUGARPLUM LN

Street View

Google

Google Directions

Zoom

View Details

Add a New Document

Google Maps Link

Town of Londonderry

Property Record Card

Zoning Ordinance Website

Property

Address 0 SUGARPLUM LN

Parcel ID 010 013 0

Area 875,338.20 SF

Ownership

Name SUGAR PLUM HILL LLC

Address 100 ANDOVER BY-PASS STE 300 NORTH ANDOVER, MA 01845

Valuation

Total	\$1,103,300
Buildings	\$0
Land	\$1,103,100
Last Sale	\$0 on 2006-10-25
Deed Book and Page	4724-2452

Location #5A
- Pressure Gauge
- Manned during all tests

Location #5B
- Flow Test Hydrant
- Manned Only During Flow Test #2

Sugar Plum Hill

Valley Center

Wood

42.873821, -71.361993

Location #6

41 NASHUA RD

Street View

Google

Google Directions Zoom

View Details

Add a New Document

Google Maps Link

Town of Londonderry

Property Record Card

Zoning Ordinance Website

Property

Address 41 NASHUA RD

Parcel ID 007 119 0

Area 1,318,256.28 SF

Ownership

Name HOME DEPOT USA, INC

Address PO BOX 105842 ATLANTA, GA 30348-5842

Valuation

Total \$17,932,800

Buildings \$9,954,900

Land \$6,646,700

Last Sale \$5,350,000 on 2001-01-10

Deed Book and Page 3533-1498

Zone

Location #6A
- Pressure Gauge
- Manned during all tests

Location #6B
- Flow Test Hydrant
- Manned Only During Flow Test #3

Map data ©2019 200 ft Terms of Use Report a map error

Flow Test Data Sheet

Test #: 1, 2 & 3

Location #: 3, 5 & 6

Name: Eric Levesque PWW & Devon Smith UE

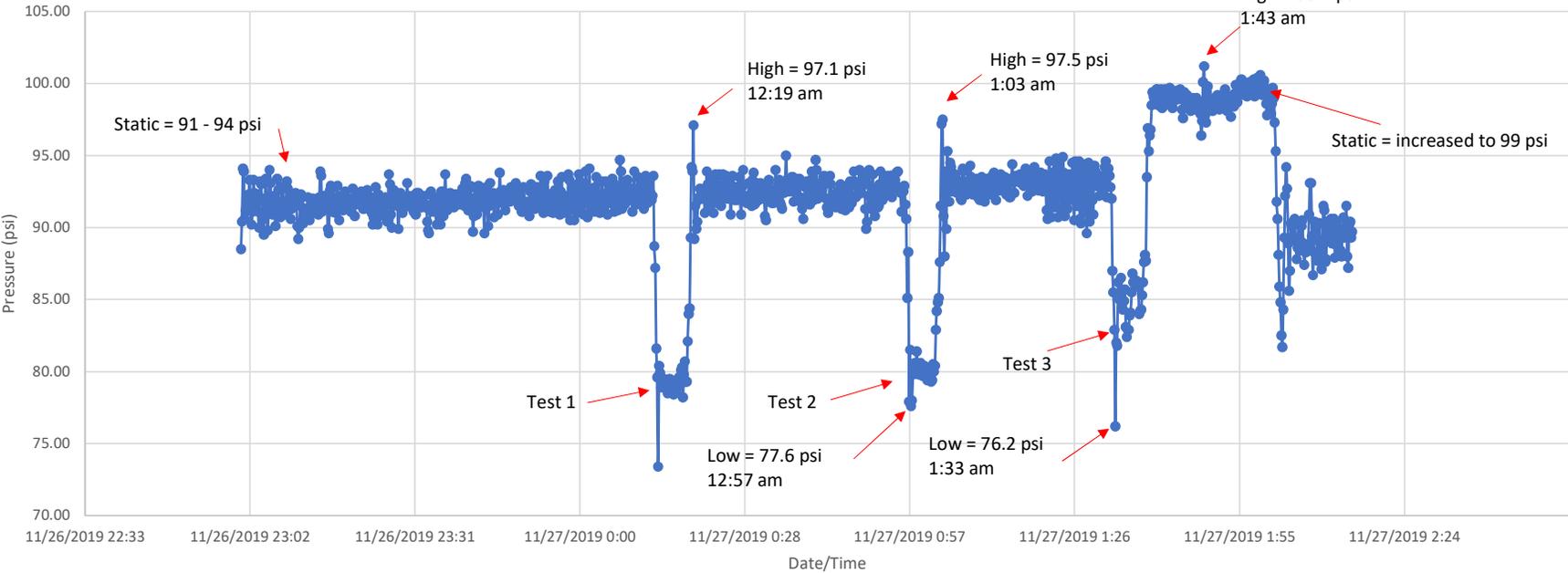
Date: 11/27/19

Diffuser Diameter: 4.04", the same diffuser was used for all flow tests.

	Flow Test #1			Flow Test #2			Flow Test #3		
Time	Big Gauge (psi)	Small Gauge (psi)	Flow (gpm)	Big Gauge (psi)	Small Gauge (psi)	Flow (gpm)	Big Gauge (psi)	Small Gauge (psi)	Flow (gpm)
Start Time:	12:08 AM			12:52 AM			1:28 AM		
0 Min (PRE-FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Min (PRE-FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Min (PRE-FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Min (PRE-FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Min (PRE-FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Min (START FLOW TEST)	*	*	*	16	3	1562	*	*	*
6 Min (FLOW TEST)	*	*	*	17	3.5	1592	31	7	2122
7 Min (FLOW TEST)	16	1	1678	17	3.5	1592	32	8	2122
8 Min (FLOW TEST)	16	1	1678	17	3.5	1592	33	9	2122
9 Min (FLOW TEST)	17	2	1678	17	3.5	1592	34	9	2166
10 Min (STOP FLOW TEST)	17	2	1678	*	*	*	35	10	2166
11 Min (POST FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 Min (POST FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13 Min (POST FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14 Min (POST FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 Min (POST FLOW TEST)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Please note that an * indicates that no pressure reading was obtained as the hydrant was either being closed or opened at this time interval.

Location 1 - All Tests



Location 2

Flow Test Data Sheet

Test #: 1

Location: Mt. Homes

Time	Flow (gpm)	Number of Pumps Running	Suction Pressure (psi)	Discharge Pressure (psi)
Start Time: 12:08				
0 Min (PRE-FLOW TEST)	95	1	39	106
1 Min (PRE-FLOW TEST)	94	1	38	106
2 Min (PRE-FLOW TEST)	86	1	36	105
3 Min (PRE-FLOW TEST)	108	1	35	108
4 Min (PRE-FLOW TEST)	114	1	37	106
5 Min (START FLOW TEST)	768	3	14	43
6 Min (FLOW TEST)	1651	4	5	47
7 Min (FLOW TEST)	1640	4	6	47
8 Min (FLOW TEST)	1630	4	7	46
9 Min (FLOW TEST)	1620	4	7	47
10 Min (STOP FLOW TEST)	1625	4	7	47
11 Min (POST FLOW TEST)	1375	4	28	100
12 Min (POST FLOW TEST)	110	3	16	122
13 Min (POST FLOW TEST)	275	2	39	107
14 Min (POST FLOW TEST)	172	2	43	107
15 Min (POST FLOW TEST)	145	1	37	106

Location 2

Flow Test Data Sheet

Test #: 2

Location: Mt. Homes

Time	Flow (gpm)	Number of Pumps Running	Suction Pressure (psi)	Discharge Pressure (psi)
Start Time: 12:52				
0 Min (PRE-FLOW TEST)	123	1	39	106
1 Min (PRE-FLOW TEST)	67	1	37	105
2 Min (PRE-FLOW TEST)	92	1	42	107
3 Min (PRE-FLOW TEST)	139	1	40	106
4 Min (PRE-FLOW TEST)	83	1	37	106
5 Min (START FLOW TEST)	108	1	34	105
6 Min (FLOW TEST)	1595	4	3	51
7 Min (FLOW TEST)	1620	4	7	50
8 Min (FLOW TEST)	1580	4	7	49
9 Min (FLOW TEST)	1600	4	8	49
10 Min (STOP FLOW TEST)	1590	4	8	52
11 Min (POST FLOW TEST)	780	4	35	146
12 Min (POST FLOW TEST)	415	3	27	104
13 Min (POST FLOW TEST)	120	2	34	106
14 Min (POST FLOW TEST)	73	1	37	105
15 Min (POST FLOW TEST)	126	1	40	107

Location 2

Flow Test Data Sheet

Test #: 3

Location: Mt. Homes

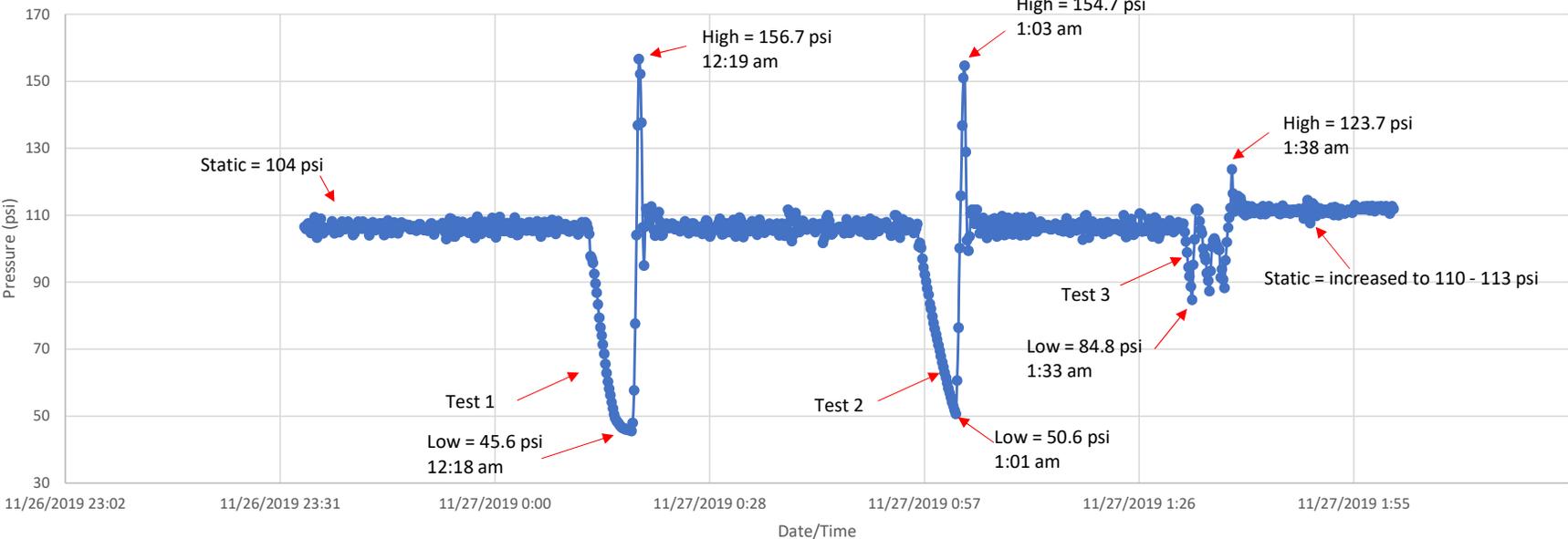
Time	Flow (gpm)	Number of Pumps Running	Suction Pressure (psi)	Discharge Pressure (psi)
Start Time: 1:28				
0 Min (PRE-FLOW TEST)	91	1	36	105
1 Min (PRE-FLOW TEST)	65	1	41	106
2 Min (PRE-FLOW TEST)	110	1	40	106
3 Min (PRE-FLOW TEST)	91	1	38	106
4 Min (PRE-FLOW TEST)	112	1	37	107
5 Min (START FLOW TEST)	441	2	25	98
6 Min (FLOW TEST)	1447	4	15	103
7 Min (FLOW TEST)	1270	4	22	116
8 Min (FLOW TEST)	1490	4	20	96
9 Min (FLOW TEST)	1370	4	21	113
10 Min (STOP FLOW TEST)	1570	4	13	97
11 Min (POST FLOW TEST)	1300	4	30	120
12 Min (POST FLOW TEST)	280	3	45	110
13 Min (POST FLOW TEST)	105	2	41	111
14 Min (POST FLOW TEST)	61	1	43	110
15 Min (POST FLOW TEST)	90	1	44	110

Flow Test Data Sheet

Location: #3A

Time	Test 1 (Pressure, psi)	Test 2 (Pressure, psi)	Test 3 (Pressure, psi)
Start Time:	12:08	12:52 am	1:28 am
0 Min (PRE-FLOW TEST)	95	96	96
1 Min (PRE-FLOW TEST)	95	96	96
2 Min (PRE-FLOW TEST)	94	98	96
3 Min (PRE-FLOW TEST)	95	97	96
4 Min (PRE-FLOW TEST)	95	97	97
5 Min (START FLOW TEST)	42	22	44
6 Min (FLOW TEST)	36	40	102
7 Min (FLOW TEST)	35	40	104
8 Min (FLOW TEST)	34	39	84
9 Min (FLOW TEST)	35	39	100
10 Min (STOP FLOW TEST)	35	40	84
11 Min (POST FLOW TEST)	148	150	110
12 Min (POST FLOW TEST)	95	98	102
13 Min (POST FLOW TEST)	98	98	100
14 Min (POST FLOW TEST)	98	96	101
15 Min (POST FLOW TEST)	96	96	100

Location 4 - All Tests



Flow Test Data Sheet

Location: #5A

Time	Test 1 (Pressure, psi)	Test 2 (Pressure, psi)	Test 3 (Pressure, psi)
Start Time:	12:08	12:52 am	1:28 am
0 Min (PRE-FLOW TEST)	102	102	102
1 Min (PRE-FLOW TEST)	102	102	103
2 Min (PRE-FLOW TEST)	102	105	103
3 Min (PRE-FLOW TEST)	102	105	103
4 Min (PRE-FLOW TEST)	102	105	103
5 Min (START FLOW TEST)	40	102	70
6 Min (FLOW TEST)	42	30	100
7 Min (FLOW TEST)	42	30	102
8 Min (FLOW TEST)	41	30	80
9 Min (FLOW TEST)	41	30	100
10 Min (STOP FLOW TEST)	41	35	80
11 Min (POST FLOW TEST)	80	130	110
12 Min (POST FLOW TEST)	140	102	115
13 Min (POST FLOW TEST)	110	103	110
14 Min (POST FLOW TEST)	110	103	110
15 Min (POST FLOW TEST)	105	105	110

Flow Test Data Sheet

Location: #6A

Time	Test 1 (Pressure, psi)	Test 2 (Pressure, psi)	Test 3 (Pressure, psi)
Start Time:	12:08	12:52 am	1:28 am
0 Min (PRE-FLOW TEST)	70	70	69
1 Min (PRE-FLOW TEST)	70	70	70
2 Min (PRE-FLOW TEST)	70	70	69
3 Min (PRE-FLOW TEST)	70	70	70
4 Min (PRE-FLOW TEST)	70	70	70
5 Min (START FLOW TEST)	70	70	70
6 Min (FLOW TEST)	54	57	51
7 Min (FLOW TEST)	81	88	48
8 Min (FLOW TEST)	74	74	52
9 Min (FLOW TEST)	58	60	51
10 Min (STOP FLOW TEST)	84	90	53
11 Min (POST FLOW TEST)	74	72	90
12 Min (POST FLOW TEST)	70	68	118
13 Min (POST FLOW TEST)	69	70	82
14 Min (POST FLOW TEST)	69	70	55
15 Min (POST FLOW TEST)	69	70	78

Location 7

Flow Test Data Sheet

Test #: 1

Location: South Road

Time	Meter Reading - Volume		Number of Pumps Running	Suction Pressure (psi)	Discharge Pressure (psi)
	CCF	GAL			
Start Time: 12:08					
0 Min (PRE-FLOW TEST)	6449412	0	0	102	122
1 Min (PRE-FLOW TEST)	6449412	0	0	102	122
2 Min (PRE-FLOW TEST)	6449412	0	0	102	122
3 Min (PRE-FLOW TEST)	6449412	0	0	102	122
4 Min (PRE-FLOW TEST)	6449412	0	0	102	122
5 Min (START FLOW TEST)	6449412	0	0	102	122
6 Min (FLOW TEST)	6449425	972	1	95	107
7 Min (FLOW TEST)	6449430	374	1	100	125
8 Min (FLOW TEST)	6449435	374	1/0	103	127
9 Min (FLOW TEST)	6449437	149	0/1	105	110
10 Min (STOP FLOW TEST)	6449456	1421	1/0	100	129
11 Min (POST FLOW TEST)					
12 Min (POST FLOW TEST)	6449462	449	0	101	121
13 Min (POST FLOW TEST)	6449462	0	0	102	121
14 Min (POST FLOW TEST)	6449462	0	0	102	122
15 Min (POST FLOW TEST)	6499462	0	0	103	120

Location 7

Flow Test Data Sheet

Test #: 2

Location: South Road

Time	Meter Reading - Volume		Number of Pumps Running	Suction Pressure (psi)	Discharge Pressure (psi)
	CCF	GAL			
Start Time: 12:52					
0 Min (PRE-FLOW TEST)	6449462	0	0	102	121
1 Min (PRE-FLOW TEST)	6449462	0	0	102	121
2 Min (PRE-FLOW TEST)	6449462	0	0	102	121
3 Min (PRE-FLOW TEST)	6449462	0	0	102	121
4 Min (PRE-FLOW TEST)	6449462	0	0	102	121
5 Min (START FLOW TEST)	6449462	0	0	102	121
6 Min (FLOW TEST)	6449462	0	0	102	110
7 Min (FLOW TEST)	6449481	1421	1	110	138
8 Min (FLOW TEST)	6449486	374	1/0	103	126
9 Min (FLOW TEST)	6449486	0	0/1	105	112
10 Min (STOP FLOW TEST)	6449503	524	1	113	138
11 Min (POST FLOW TEST)	6449507	300	1/0	104	125
12 Min (POST FLOW TEST)	6449510	224	0	102	122
13 Min (POST FLOW TEST)	6449510	0	0	102	121
14 Min (POST FLOW TEST)	6449510	0	0	102	121
15 Min (POST FLOW TEST)	6449510	0	0	102	121

Location 7

Flow Test Data Sheet

Test #: 3

Location: South Road

Time	Meter Reading - Volume		Number of Pumps Running	Suction Pressure (psi)	Discharge Pressure (psi)
	CCF	GAL			
Start Time: 1:28					
0 Min (PRE-FLOW TEST)	6449510	0	0	102	121
1 Min (PRE-FLOW TEST)	6449510	0	0	103	120
2 Min (PRE-FLOW TEST)	6449510	0	0	102	121
3 Min (PRE-FLOW TEST)	6449510	0	0	102	121
4 Min (PRE-FLOW TEST)	6449510	0	0	102	121
5 Min (START FLOW TEST)	6449510	0	0	80	95
6 Min (FLOW TEST)	6449615	7885	2	83	120
7 Min (FLOW TEST)	6449745	4726	1	83	120
8 Min (FLOW TEST)	6450075	24688	1	85	120
9 Min (FLOW TEST)	6450108	2468	1	88	120
10 Min (STOP FLOW TEST)	6450110	149	1	102	119
11 Min (POST FLOW TEST)	6450159	3666	1/0	100	142
12 Min (POST FLOW TEST)	6450159	0	0	102	172
13 Min (POST FLOW TEST)	6450159	0	0	102	129
14 Min (POST FLOW TEST)	6450159	0	0/1	103	108
15 Min (POST FLOW TEST)	6450176	1271	1	95	123

APPENDIX B

COHAS METER PIT FLOW
DATA 5/26/18 – 8/30/18

Interval End Time	Interval Reading	Interval Consumption	Leak	CR/Hr (Consumption CF *7.48)	GPM (conversion/60)	Peak Hour (gpm)
05/26/2018 15:03	8303652		Continuous		0	0
05/26/2018 16:03	8306814	3162	Continuous	23,652	394	
05/26/2018 17:03	8309817*	3003*	Continuous*			
05/26/2018 18:03	8312820	3003*	Continuous			
05/26/2018 19:03	8316244	3424	Continuous	25,612	427	
05/26/2018 20:03	8319527	3283	Continuous	24,557	409	
05/26/2018 21:03	8322352	2825	Continuous	21,131	352	
05/26/2018 22:03	8324584	2232	Continuous	16,695	278	
05/26/2018 23:03	8326656	2072	Continuous	15,499	258	
05/27/2018 00:03	8328480	1824	Continuous	13,644	227	
05/27/2018 01:03	8330120	1640	Continuous	12,267	204	
05/27/2018 02:03	8331602	1482	Continuous	11,085	185	
05/27/2018 03:03	8333074	1472	Continuous	11,011	184	
05/27/2018 04:03	8334902	1828	Continuous	13,673	228	
05/27/2018 05:03	8338113	3211	Continuous	24,018	400	
05/27/2018 06:03	8342378	4265	Continuous	31,902	532	
05/27/2018 07:03	8346061	3683	Continuous	27,549	459	
05/27/2018 08:03	8349177	3116	Continuous	23,308	388	
05/27/2018 09:03	8352364	3187	Continuous	23,839	397	
05/27/2018 10:03	8355718	3354	Continuous	25,088	418	
05/27/2018 11:03	8358953	3235	Continuous	24,198	403	
05/27/2018 12:03	8362211	3258	Continuous	24,370	406	
05/27/2018 13:03	8365297	3086	Continuous	23,083	385	
05/27/2018 14:03	8368332	3035	Continuous	22,702	378	
05/27/2018 15:03	8371197	2865	Continuous	21,430	357	
05/27/2018 16:03	8373969	2772	Continuous	20,735	346	
05/27/2018 17:03	8376512	2543	Continuous	19,022	317	
05/27/2018 18:03	8379273	2761	Continuous	20,652	344	
05/27/2018 19:03	8382456	3183	Continuous	23,809	397	
05/27/2018 20:03	8385607	3151	Continuous	23,569	393	
05/27/2018 21:03	8388411	2804	Continuous	20,974	350	
05/27/2018 22:03	8390516	2105	Continuous	15,745	262	
05/27/2018 23:03	8392372	1856	Continuous	13,883	231	
05/28/2018 00:03	8394117	1745	Continuous	13,053	218	
05/28/2018 01:03	8395674	1557	Continuous	11,646	194	
05/28/2018 02:03	8397116	1442	Continuous	10,786	180	
05/28/2018 03:03	8398488	1372	Continuous	10,263	171	
05/28/2018 04:03	8400017	1529	Continuous	11,437	191	
05/28/2018 05:03	8402949	2932	Continuous	21,931	366	
05/28/2018 06:03	8407071	4122	Continuous	30,833	514	
05/28/2018 07:03	8411027	3956	Continuous	29,591	493	
05/28/2018 08:03	8414400	3373	Continuous	25,230	421	
05/28/2018 09:03	8417499	3099	Continuous	23,181	386	
05/28/2018 10:03	8420738	3239	Continuous	24,228	404	
05/28/2018 11:03	8422949	2211	Continuous	16,538	276	
05/28/2018 12:03	8426084	3135	Continuous	23,450	391	
05/28/2018 13:03	8429284	3200	Continuous	23,936	399	
05/28/2018 14:03	8432410	3126	Continuous	23,382	390	
05/28/2018 15:03	8435477	3067	Continuous	22,941	382	
05/28/2018 16:03	8438463	2986	Continuous	22,335	372	
05/28/2018 17:03	8441560	3097	Continuous	23,166	386	
05/28/2018 18:03	8445038	3478	Continuous	26,015	434	
05/28/2018 19:03	8448732	3694	Continuous	27,631	461	
05/28/2018 20:03	8452285	3553	Continuous	26,576	443	
05/28/2018 21:03	8455557	3272	Continuous	24,475	408	
05/28/2018 22:03	8458113	2556	Continuous	19,119	319	
05/28/2018 23:03	8460277	2164	Continuous	16,187	270	
05/29/2018 00:03	8461946	1669	Continuous	12,484	208	
05/29/2018 01:03	8463463	1517	Continuous	11,347	189	
05/29/2018 02:03	8464819	1356	Continuous	10,143	169	
05/29/2018 03:03	8466212	1393	Continuous	10,420	174	
05/29/2018 04:03	8467964	1752	Continuous	13,105	218	
05/29/2018 05:03	8470498	2534	Continuous	18,954	316	
05/29/2018 06:03	8474407	3909	Continuous	29,239	487	
05/29/2018 07:03	8479005	4598	Continuous	34,393	573	
05/29/2018 08:03	8483071	4066	Continuous	30,414	507	
05/29/2018 09:03	8486719	3648	Continuous	27,287	455	
05/29/2018 10:03	8490538	3819	Continuous	28,566	476	
05/29/2018 11:03	8493221	2683	Continuous	20,069	334	
05/29/2018 12:03	8496593	3372	Continuous	25,223	420	
05/29/2018 13:03	8500163	3570	Continuous	26,704	445	
05/29/2018 14:03	8503675	3512	Continuous	26,270	438	
05/29/2018 15:03	8506997	3322	Continuous	24,849	414	
05/29/2018 16:03	8510232	3235	Continuous	24,198	403	
05/29/2018 17:03	8513520	3288	Continuous	24,594	410	
05/29/2018 18:03	8517406	3886	Continuous	29,067	484	
05/29/2018 19:03	8521581	4175	Continuous	31,229	520	
05/29/2018 20:03	8526132	4551	Continuous	34,041	567	
05/29/2018 21:03	8530017	3885	Continuous	29,060	484	
05/29/2018 22:03	8533137	3120	Continuous	23,338	389	

05/29/2018 23:03	8535381	2244	Continuous	16,785	280
05/30/2018 00:03	8536992	1611	Continuous	12,050	201
05/30/2018 01:03	8538333	1341	Continuous	10,031	167
05/30/2018 02:03	8539630	1297	Continuous	9,702	162
05/30/2018 03:03	8540892	1262	Continuous	9,440	157
05/30/2018 04:03	8542416	1524	Continuous	11,400	190
05/30/2018 05:03	8545563	3147	Continuous	23,540	392
05/30/2018 06:03	8550945	5382	Continuous	40,257	671
05/30/2018 07:03	8557318	6373	Continuous	47,670	795
05/30/2018 08:03	8562381	5063	Continuous	37,871	631
05/30/2018 09:03	8566286	3905	Continuous	29,209	487
05/30/2018 10:03	8569952	3666	Continuous	27,422	457
05/30/2018 11:03	8573608	3656	Continuous	27,347	456
05/30/2018 12:03	8577039	3431	Continuous	25,664	428
05/30/2018 13:03	8580124	3085	Continuous	23,076	385
05/30/2018 14:03	8583229	3105	Continuous	23,225	387
05/30/2018 15:03	8586394	3165	Continuous	23,674	395
05/30/2018 16:03	8589733	3339	Continuous	24,976	416
05/30/2018 17:03	8593012	3279	Continuous	24,527	409
05/30/2018 18:03	8596960	3948	Continuous	29,531	492
05/30/2018 19:03	8601775	4815	Continuous	36,016	600
05/30/2018 20:03	8605979	4204	Continuous	31,446	524
05/30/2018 21:03	8610047	4068	Continuous	30,429	507
05/30/2018 22:03	8612914	2867	Continuous	21,445	357
05/30/2018 23:03	8615283	2369	Continuous	17,720	295
05/31/2018 00:03	8617431	2148	Continuous	16,067	268
05/31/2018 01:03	8619447	2016	Continuous	15,080	251
05/31/2018 02:03	8621209	1762	Continuous	13,180	220
05/31/2018 03:03	8622724	1515	Continuous	11,332	189
05/31/2018 04:03	8624681	1957	Continuous	14,638	244
05/31/2018 05:03	8627973	3292	Continuous	24,624	410
05/31/2018 06:03	8632895	4922	Continuous	36,817	614
05/31/2018 07:03	8638838	5943	Continuous	44,454	741
05/31/2018 08:03	8643647	4809	Continuous	35,971	600
05/31/2018 09:03	8647421	3774	Continuous	28,230	470
05/31/2018 10:03	8651008	3587	Continuous	26,831	447
05/31/2018 11:03	8654523	3515	Continuous	26,292	438
05/31/2018 12:03	8658262	3739	Continuous	27,968	466
05/31/2018 13:03	8661404	3142	Continuous	23,502	392
05/31/2018 14:03	8664542	3138	Continuous	23,472	391
05/31/2018 15:03	8667445	2903	Continuous	21,714	362
05/31/2018 16:03	8670299	2854	Continuous	21,348	356
05/31/2018 17:03	8674254	3955	Continuous	29,583	493
05/31/2018 18:03	8680042	5788	Continuous	43,294	722
05/31/2018 19:03	8684701	4659	Continuous	34,849	581
05/31/2018 20:03	8689197	4496	Continuous	33,630	561
05/31/2018 21:03	8693507	4310	Continuous	32,239	537
05/31/2018 22:03	8696822	3315	Continuous	24,796	413
05/31/2018 23:03	8699375	2553	Continuous	19,096	318
06/01/2018 00:03	8701656	2281	Continuous	17,062	284
06/01/2018 01:03	8703769	2113	Continuous	15,805	263
06/01/2018 02:03	8705761	1992	Continuous	14,900	248
06/01/2018 03:03	8707384	1623	Continuous	12,140	202
06/01/2018 04:03	8709228	1844	Continuous	13,793	230
06/01/2018 05:03	8712793	3565	Continuous	26,666	444
06/01/2018 06:03	8718649	5856	Continuous	43,803	730
06/01/2018 07:03	8725378	6729	Continuous	50,333	839
06/01/2018 08:03	8730929	5551	Continuous	41,521	692
06/01/2018 09:03	8735131	4202	Continuous	31,431	524
06/01/2018 10:03	8738836	3705	Continuous	27,713	462
06/01/2018 11:03	8742154	3318	Continuous	24,819	414
06/01/2018 12:03	8745497	3343	Continuous	25,006	417
06/01/2018 13:03	8748566	3069	Continuous	22,956	383
06/01/2018 14:03	8751535	2969	Continuous	22,208	370
06/01/2018 15:03	8754201	2666	Continuous	19,942	332
06/01/2018 16:03	8756743	2542	Continuous	19,014	317
06/01/2018 17:03	8759248	2505	Continuous	18,737	312
06/01/2018 18:03	8762340	3092	Continuous	23,128	385
06/01/2018 19:03	8766219	3879	Continuous	29,015	484
06/01/2018 20:03	8769757	3538	Continuous	26,464	441
06/01/2018 21:03	8772899	3142	Continuous	23,502	392
06/01/2018 22:03	8775407	2508	Continuous	18,760	313
06/01/2018 23:03	8777745	2338	Continuous	17,488	291
06/02/2018 00:03	8779974	2229	Continuous	16,673	278
06/02/2018 01:03	8781943	1969	Continuous	14,728	245
06/02/2018 02:03	8783841	1898	Continuous	14,197	237
06/02/2018 03:03	8785423	1582	Continuous	11,833	197
06/02/2018 04:03	8787474	2051	Continuous	15,341	256
06/02/2018 05:03	8790686	3212	Continuous	24,026	400
06/02/2018 06:03	8794929	4243	Continuous	31,738	529
06/02/2018 07:03	8799508	4579	Continuous	34,251	574

06/02/2018 08:03	8803550	4042	Continuous		30,234	504
06/02/2018 09:03	8807690	4140	Continuous		30,967	516
06/02/2018 10:03	8812039	4349	Continuous		32,531	542
06/02/2018 11:03	8816068	4029	Continuous		30,137	502
06/02/2018 12:03	8819796	3728	Continuous		27,885	465
06/02/2018 13:03	8823400	3604	Continuous		26,958	449
06/02/2018 14:03	8827005	3605	Continuous		26,965	449
06/02/2018 15:03	8830618	3613	Continuous		27,025	450
06/02/2018 16:03	8833992	3374	Continuous		25,238	421
06/02/2018 17:03	8837210	3218	Continuous		24,071	401
06/02/2018 18:03	8840817	3607	Continuous		26,980	450
06/02/2018 19:03	8845007	4190	Continuous		31,341	522
06/02/2018 20:03	8849236	4229	Continuous		31,633	527
06/02/2018 21:03	8852668	3432	Continuous		25,671	428
06/02/2018 22:03	8855267	2599	Continuous		19,441	324
06/02/2018 23:03	8857609	2342	Continuous		17,518	292
06/03/2018 00:03	8859757	2148	Continuous		16,067	268
06/03/2018 01:03	8861787	2030	Continuous		15,184	253
06/03/2018 02:03	8863647	1860	Continuous		13,913	232
06/03/2018 03:03	8865256	1609	Continuous		12,035	201
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06/03/2018 19:03	8928722	4207	Continuous		31,468	524
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06/03/2018 22:03	8938666	2449	Continuous		18,319	305
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06/05/2018 15:03	9045016	2392	Continuous		17,892	298
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06/07/2018 16:03	9178517	2681	Continuous		20,054	334
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06/15/2018 18:03	9846142	3557	Continuous	26,606	443
06/15/2018 19:03	9849899	3757	Continuous	28,102	468

06/15/2018 20:03	9853680	3781	Continuous	28,282	471
06/15/2018 21:03	9856847	3167	Continuous	23,689	395
06/15/2018 22:03	9859376	2529	Continuous	18,917	315
06/15/2018 23:03	9861554	2178	Continuous	16,291	272
06/16/2018 00:03	9863442	1888	Continuous	14,122	235
06/16/2018 01:03	9865109	1667	Continuous	12,469	208
06/16/2018 02:03	9866906	1797	Continuous	13,442	224
06/16/2018 03:03	9868775	1869	Continuous	13,980	233
06/16/2018 04:03	9871643	2868	Continuous	21,453	358
06/16/2018 05:03	9875843	4200	Continuous	31,416	524
06/16/2018 06:03	9880798	4955	Continuous	37,063	618
06/16/2018 07:03	9886464	5666	Continuous	42,382	706
06/16/2018 08:03	9890693	4229	Continuous	31,633	527
06/16/2018 09:03	9895007	4314	Continuous	32,269	538
06/16/2018 10:03	9899381	4374	Continuous	32,718	545
06/16/2018 11:03	9903412	4031	Continuous	30,152	503
06/16/2018 12:03	9907351	3939	Continuous	29,464	491
06/16/2018 13:03	9911242	3891	Continuous	29,105	485
06/16/2018 14:03	9914805	3563	Continuous	26,651	444
06/16/2018 15:03	9918240	3435	Continuous	25,694	428
06/16/2018 16:03	9921747	3507	Continuous	26,232	437
06/16/2018 17:03	9925048	3301	Continuous	24,691	412
06/16/2018 18:03	9928807	3759	Continuous	28,117	469
06/16/2018 19:03	9932616	3809	Continuous	28,491	475
06/16/2018 20:03	9936713	4097	Continuous	30,646	511
06/16/2018 21:03	9940344	3631	Continuous	27,160	453
06/16/2018 22:03	9943145	2801	Continuous	20,951	349
06/16/2018 23:03	9945324	2179	Continuous	16,299	272
06/17/2018 00:03	9947190	1866	Continuous	13,958	233
06/17/2018 01:03	9949036	1846	Continuous	13,808	230
06/17/2018 02:03	9950899	1863	Continuous	13,935	232
06/17/2018 03:03	9952797	1898	Continuous	14,197	237
06/17/2018 04:03	9955849	3052	Continuous	22,829	380
06/17/2018 05:03	9961104	5255	Continuous	39,307	655
06/17/2018 06:03	9967939	6835	Continuous	51,126	852
06/17/2018 07:03	9974875	6936	Continuous	51,881	865
06/17/2018 08:03	9979502	4627	Continuous	34,610	577
06/17/2018 09:03	9983854	4352	Continuous	32,553	543
06/17/2018 10:03	9988172	4318	Continuous	32,299	538
06/17/2018 11:03	9992479	4307	Continuous	32,216	537
06/17/2018 12:03	9996236	3757	Continuous	28,102	468
06/17/2018 13:03	9999843	3607	Continuous	26,980	450
06/17/2018 14:03	10003377	3534	Continuous	26,434	441
06/17/2018 15:03	10006891	3514	Continuous	26,285	438
06/17/2018 16:03	10010435	3544	Continuous	26,509	442
06/17/2018 17:03	10013921	3486	Continuous	26,075	435
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06/17/2018 20:03	10027503	5068	Continuous	37,909	632
06/17/2018 21:03	10031808	4305	Continuous	32,201	537
06/17/2018 22:03	10035122	3314	Continuous	24,789	413
06/17/2018 23:03	10037337	2215	Continuous	16,568	276
06/18/2018 00:03	10038930	1593	Continuous	11,916	199
06/18/2018 01:03	10040646	1716	Continuous	12,836	214
06/18/2018 02:03	10042501	1855	Continuous	13,875	231
06/18/2018 03:03	10044444	1943	Continuous	14,534	242
06/18/2018 04:03	10047587	3143	Continuous	23,510	392
06/18/2018 05:03	10053165	5578	Continuous	41,723	695
06/18/2018 06:03	10061300	8135	Continuous	60,850	1,014
06/18/2018 07:03	10070351	9051	Continuous	67,701	1,128
06/18/2018 08:03	10077043	6692	Continuous	50,056	834
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06/18/2018 10:03	10087528	4784	Continuous	35,784	596
06/18/2018 11:03	10090186	2658	Continuous	19,882	331
06/18/2018 12:03	10093566	3380	Continuous	25,282	421
06/18/2018 13:03	10096843	3277	Continuous	24,512	409
06/18/2018 14:03	10099948	3105	Continuous	23,225	387
06/18/2018 15:03	10102857	2909	Continuous	21,759	363
06/18/2018 16:03	10105906	3049	Continuous	22,807	380
06/18/2018 17:03	10109622	3716	Continuous	27,796	463
06/18/2018 18:03	10113285	3663	Continuous	27,399	457
06/18/2018 19:03	10116137	2852	Continuous	21,333	356
06/18/2018 20:03	10118310	2173	Continuous	16,254	271
06/18/2018 21:03	10120263	1953	Continuous	14,608	243
06/18/2018 22:03	10121903	1640	Continuous	12,267	204
06/18/2018 23:03	10123360	1457	Continuous	10,898	182
06/19/2018 00:03	10124567	1207	Continuous	9,028	150
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06/19/2018 02:03	10126834	1173	Continuous	8,774	146
06/19/2018 03:03	10128188	1354	Continuous	10,128	169
06/19/2018 04:03	10130243	2055	Continuous	15,371	256

Peak Hour

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06/19/2018 07:03	10142760	5241	Continuous		39,203	653
06/19/2018 08:03	10146956	4196	Continuous		31,386	523
06/19/2018 09:03	10150425	3469	Continuous		25,948	432
06/19/2018 10:03	10153653	3228	Continuous		24,145	402
06/19/2018 11:03	10155565	1912	Continuous		14,302	238
06/19/2018 12:03	10158189	2624	Continuous		19,628	327
06/19/2018 13:03	10160818	2629	Continuous		19,665	328
06/19/2018 14:03	10163518	2700	Continuous		20,196	337
06/19/2018 15:03	10166187	2669	Continuous		19,964	333
06/19/2018 16:03	10169271	3084	Continuous		23,068	384
06/19/2018 17:03	10171975	2704	Continuous		20,226	337
06/19/2018 18:03	10175378	3403	Continuous		25,454	424
06/19/2018 19:03	10178996	3618	Continuous		27,063	451
06/19/2018 20:03	10182741	3745	Continuous		28,013	467
06/19/2018 21:03	10186362	3621	Continuous		27,085	451
06/19/2018 22:03	10189225	2863	Continuous		21,415	357
06/19/2018 23:03	10191362	2137	Continuous		15,985	266
06/20/2018 00:03	10193211	1849	Continuous		13,831	231
06/20/2018 01:03	10195012	1801	Continuous		13,471	225
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06/20/2018 08:03	10228969	6109	Continuous		45,695	762
06/20/2018 09:03	10233438	4469	Continuous		33,428	557
06/20/2018 10:03	10237329	3891	Continuous		29,105	485
06/20/2018 11:03	10240351	3022	Continuous		22,605	377
06/20/2018 12:03	10243228	2877	Continuous		21,520	359
06/20/2018 13:03	10246208	2980	Continuous		22,290	372
06/20/2018 14:03	10249136	2928	Continuous		21,901	365
06/20/2018 15:03	10251913	2777	Continuous		20,772	346
06/20/2018 16:03	10254752	2839	Continuous		21,236	354
06/20/2018 17:03	10258155	3403	Continuous		25,454	424
06/20/2018 18:03	10262423	4268	Continuous		31,925	532
06/20/2018 19:03	10267149	4726	Continuous		35,350	589
06/20/2018 20:03	10271957	4808	Continuous		35,964	599
06/20/2018 21:03	10276363	4406	Continuous		32,957	549
06/20/2018 22:03	10279318	2955	Continuous		22,103	368
06/20/2018 23:03	10281468	2150	Continuous		16,082	268
06/21/2018 00:03	10283338	1870	Continuous		13,988	233
06/21/2018 01:03	10285177	1839	Continuous		13,756	229
06/21/2018 02:03	10287094	1917	Continuous		14,339	239
06/21/2018 03:03	10289115	2021	Continuous		15,117	252
06/21/2018 04:03	10291972	2857	Continuous		21,370	356
06/21/2018 05:03	10296343	4371	Continuous		32,695	545
06/21/2018 06:03	10302447	6104	Continuous		45,658	761
06/21/2018 07:03	10309595	7148	Continuous		53,467	891
06/21/2018 08:03	10314942	5347	Continuous		39,996	667
06/21/2018 09:03	10319073	4131	Continuous		30,900	515
06/21/2018 10:03	10322859	3786	Continuous		28,319	472
06/21/2018 11:03	10326224	3365	Continuous		25,170	420
06/21/2018 12:03	10329402	3178	Continuous		23,771	396
06/21/2018 13:03	10332209	2807	Continuous		20,996	350
06/21/2018 14:03	10334929	2720	Continuous		20,346	339
06/21/2018 15:03	10337749	2820	Continuous		21,094	352
06/21/2018 16:03	10340686	2937	Continuous		21,969	366
06/21/2018 17:03	10343856	3170	Continuous		23,712	395
06/21/2018 18:03	10347512	3656	Continuous		27,347	456
06/21/2018 19:03	10352048	4536	Continuous		33,929	565
06/21/2018 20:03	10356744	4696	Continuous		35,126	585
06/21/2018 21:03	10361173	4429	Continuous		33,129	552
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06/22/2018 00:03	10368885	1993	Continuous		14,908	248
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06/22/2018 03:03	10374232	1942	Continuous		14,526	242
06/22/2018 04:03	10377092	2860	Continuous		21,393	357
06/22/2018 05:03	10382472	5380	Continuous		40,242	671
06/22/2018 06:03	10390250	7778	Continuous		58,179	970
06/22/2018 07:03	10399240	8990	Continuous		67,245	1,121
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06/22/2018 10:03	10414372	3882	Continuous		29,037	484
06/22/2018 11:03	10417883	3511	Continuous		26,262	438
06/22/2018 12:03	10420912	3029	Continuous		22,657	378
06/22/2018 13:03	10423744	2832	Continuous		21,183	353

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06/22/2018 15:03	10429338	2842	Continuous		21,258	354
06/22/2018 16:03	10432162	2824	Continuous		21,124	352
06/22/2018 17:03	10435212	3050	Continuous		22,814	380
06/22/2018 18:03	10438865	3653	Continuous		27,324	455
06/22/2018 19:03	10443141	4276	Continuous		31,984	533
06/22/2018 20:03	10447450	4309	Continuous		32,231	537
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06/22/2018 22:03	10453864	2753	Continuous		20,592	343
06/22/2018 23:03	10455930	2066	Continuous		15,454	258
06/23/2018 00:03	10457806	1876	Continuous		14,032	234
06/23/2018 01:03	10459392	1586	Continuous		11,863	198
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06/23/2018 05:03	10469706	3913	Continuous		29,269	488
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06/23/2018 07:03	10480198	5505	Continuous		41,177	686
06/23/2018 08:03	10484086	3888	Continuous		29,082	485
06/23/2018 09:03	10487350	3264	Continuous		24,415	407
06/23/2018 10:03	10490519	3169	Continuous		23,704	395
06/23/2018 11:03	10493674	3155	Continuous		23,599	393
06/23/2018 12:03	10496800	3126	Continuous		23,382	390
06/23/2018 13:03	10499544	2744	Continuous		20,525	342
06/23/2018 14:03	10501908	2364	Continuous		17,683	295
06/23/2018 15:03	10504301	2393	Continuous		17,900	298
06/23/2018 16:03	10506666	2365	Continuous		17,690	295
06/23/2018 17:03	10509378	2712	Continuous		20,286	338
06/23/2018 18:03	10512191	2813	Continuous		21,041	351
06/23/2018 19:03	10515055	2864	Continuous		21,423	357
06/23/2018 20:03	10517723	2668	Continuous		19,957	333
06/23/2018 21:03	10520237	2514	Continuous		18,805	313
06/23/2018 22:03	10522311	2074	Continuous		15,514	259
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06/24/2018 01:03	10527052	1500	Continuous		11,220	187
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06/24/2018 03:03	10530090	1606	Continuous		12,013	200
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06/24/2018 13:03	10565773	2847	Continuous		21,296	355
06/24/2018 14:03	10568670	2897	Continuous		21,670	361
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06/24/2018 18:03	10579688	2723	Continuous		20,368	339
06/24/2018 19:03	10582377	2689	Continuous		20,114	335
06/24/2018 20:03	10585048	2671	Continuous		19,979	333
06/24/2018 21:03	10587542	2494	Continuous		18,655	311
06/24/2018 22:03	10589591	2049	Continuous		15,327	255
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06/25/2018 00:03	10592720	1512	Continuous		11,310	188
06/25/2018 01:03	10593913	1193	Continuous		8,924	149
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06/25/2018 03:03	10596338	1283	Continuous		9,597	160
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06/25/2018 06:03	10606762	5211	Continuous		38,978	650
06/25/2018 07:03	10612301	5539	Continuous		41,432	691
06/25/2018 08:03	10616754	4453	Continuous		33,308	555
06/25/2018 09:03	10619724	2970	Continuous		22,216	370
06/25/2018 10:03	10620893	1169	Continuous		8,744	146
06/25/2018 11:03	10622797	1904	Continuous		14,242	237
06/25/2018 12:03	10625233	2436	Continuous		18,221	304
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06/25/2018 19:03	10644260	3652	Continuous		27,317	455
06/25/2018 20:03	10648003	3743	Continuous		27,998	467
06/25/2018 21:03	10651236	3233	Continuous		24,183	403
06/25/2018 22:03	10654017	2781	Continuous		20,802	347

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06/26/2018 00:03	10657640	1735	Continuous	12,978	216
06/26/2018 01:03	10659265	1625	Continuous	12,155	203
06/26/2018 02:03	10661053	1788	Continuous	13,374	223
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06/26/2018 13:03	10697234	2439	Continuous	18,244	304
06/26/2018 14:03	10700225	2991	Continuous	22,373	373
06/26/2018 15:03	10703227	3002	Continuous	22,455	374
06/26/2018 16:03	10706055	2828	Continuous	21,153	353
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06/26/2018 20:03	10719876	4154	Continuous	31,072	518
06/26/2018 21:03	10723737	3861	Continuous	28,880	481
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06/27/2018 00:03	10730386	1742	Continuous	13,030	217
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06/27/2018 02:03	10733627	1677	Continuous	12,544	209
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06/27/2018 04:03	10738235	2668	Continuous	19,957	333
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06/27/2018 08:03	10762841	5777	Continuous	43,212	720
06/27/2018 09:03	10767536	4695	Continuous	35,119	585
06/27/2018 10:03	10770873	3337	Continuous	24,961	416
06/27/2018 11:03	10773951	3078	Continuous	23,023	384
06/27/2018 12:03	10776581	2630	Continuous	19,672	328
06/27/2018 13:03	10779043	2462	Continuous	18,416	307
06/27/2018 14:03	10781675	2632	Continuous	19,687	328
06/27/2018 15:03	10784346	2671	Continuous	19,979	333
06/27/2018 16:03	10786705	2359	Continuous	17,645	294
06/27/2018 17:03	10789355	2650	Continuous	19,822	330
06/27/2018 18:03	10792517	3162	Continuous	23,652	394
06/27/2018 19:03	10796011	3494	Continuous	26,135	436
06/27/2018 20:03	10799513	3502	Continuous	26,195	437
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06/27/2018 22:03	10805460	2594	Continuous	19,403	323
06/27/2018 23:03	10807255	1795	Continuous	13,427	224
06/28/2018 00:03	10808780	1525	Continuous	11,407	190
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06/28/2018 03:03	10812688	1399	Continuous	10,465	174
06/28/2018 04:03	10814734	2046	Continuous	15,304	255
06/28/2018 05:03	10817858	3124	Continuous	23,368	389
06/28/2018 06:03	10821770	3912	Continuous	29,262	488
06/28/2018 07:03	10825901	4131	Continuous	30,900	515
06/28/2018 08:03	10829197	3296	Continuous	24,654	411
06/28/2018 09:03	10831921	2724	Continuous	20,376	340
06/28/2018 10:03	10834454	2533	Continuous	18,947	316
06/28/2018 11:03	10836883	2429	Continuous	18,169	303
06/28/2018 12:03	10839197	2314	Continuous	17,309	288
06/28/2018 13:03	10841480	2283	Continuous	17,077	285
06/28/2018 14:03	10843756	2276	Continuous	17,024	284
06/28/2018 15:03	10845767	2011	Continuous	15,042	251
06/28/2018 16:03	10847840	2073	Continuous	15,506	258
06/28/2018 17:03	10850231	2391	Continuous	17,885	298
06/28/2018 18:03	10852887	2656	Continuous	19,867	331
06/28/2018 19:03	10855778	2891	Continuous	21,625	360
06/28/2018 20:03	10858529	2751	Continuous	20,577	343
06/28/2018 21:03	10861092	2563	Continuous	19,171	320
06/28/2018 22:03	10863511	2419	Continuous	18,094	302
06/28/2018 23:03	10865383	1872	Continuous	14,003	233
06/29/2018 00:03	10866943	1560	Continuous	11,669	194
06/29/2018 01:03	10868274	1331	Continuous	9,956	166
06/29/2018 02:03	10869401	1127	Continuous	8,430	140
06/29/2018 03:03	10870769	1368	Continuous	10,233	171
06/29/2018 04:03	10872660	1891	Continuous	14,145	236
06/29/2018 05:03	10876214	3554	Continuous	26,584	443
06/29/2018 06:03	10881336	5122	Continuous	38,313	639
06/29/2018 07:03	10886468	5132	Continuous	38,387	640

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06/29/2018 09:03	10893833	3460	Continuous	25,881	431
06/29/2018 10:03	10896886	3053	Continuous	22,836	381
06/29/2018 11:03	10899902	3016	Continuous	22,560	376
06/29/2018 12:03	10902531	2629	Continuous	19,665	328
06/29/2018 13:03	10905249	2718	Continuous	20,331	339
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06/29/2018 15:03	10910274	2531	Continuous	18,932	316
06/29/2018 16:03	10912811	2537	Continuous	18,977	316
06/29/2018 17:03	10915592	2781	Continuous	20,802	347
06/29/2018 18:03	10918558	2966	Continuous	22,186	370
06/29/2018 19:03	10922050	3492	Continuous	26,120	435
06/29/2018 20:03	10925513	3463	Continuous	25,903	432
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06/29/2018 22:03	10931641	2939	Continuous	21,984	366
06/29/2018 23:03	10933807	2166	Continuous	16,202	270
06/30/2018 00:03	10935719	1912	Continuous	14,302	238
06/30/2018 01:03	10937299	1580	Continuous	11,818	197
06/30/2018 02:03	10938931	1632	Continuous	12,207	203
06/30/2018 03:03	10940820	1889	Continuous	14,130	235
06/30/2018 04:03	10943377	2557	Continuous	19,126	319
06/30/2018 05:03	10947205	3828	Continuous	28,633	477
06/30/2018 06:03	10952530	5325	Continuous	39,831	664
06/30/2018 07:03	10958134	5604	Continuous	41,918	699
06/30/2018 08:03	10962872	4738	Continuous	35,440	591
06/30/2018 09:03	10967282	4410	Continuous	32,987	550
06/30/2018 10:03	10971663	4381	Continuous	32,770	546
06/30/2018 11:03	10975527	3864	Continuous	28,903	482
06/30/2018 12:03	10978768	3241	Continuous	24,243	404
06/30/2018 13:03	10981747	2979	Continuous	22,283	371
06/30/2018 14:03	10984454	2707	Continuous	20,248	337
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06/30/2018 16:03	10989858	2659	Continuous	19,889	331
06/30/2018 17:03	10992656	2798	Continuous	20,929	349
06/30/2018 18:03	10995791	3135	Continuous	23,450	391
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07/01/2018 01:03	11014645	1868	Continuous	13,973	233
07/01/2018 02:03	11016677	2032	Continuous	15,199	253
07/01/2018 03:03	11018894	2217	Continuous	16,583	276
07/01/2018 04:03	11021820	2926	Continuous	21,886	365
07/01/2018 05:03	11026839	5019	Continuous	37,542	626
07/01/2018 06:03	11034144	7305	Continuous	54,641	911
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07/01/2018 09:03	11049862	4098	Continuous	30,653	511
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07/01/2018 16:03	11071598	2872	Continuous	21,483	358
07/01/2018 17:03	11074643	3045	Continuous	22,777	380
07/01/2018 18:03	11078500	3857	Continuous	28,850	481
07/01/2018 19:03	11082851	4351	Continuous	32,545	542
07/01/2018 20:03	11087461	4610	Continuous	34,483	575
07/01/2018 21:03	11091894	4433	Continuous	33,159	553
07/01/2018 22:03	11095312	3418	Continuous	25,567	426
07/01/2018 23:03	11097664	2352	Continuous	17,593	293
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07/02/2018 03:03	11105798	2202	Continuous	16,471	275
07/02/2018 04:03	11108752	2954	Continuous	22,096	368
07/02/2018 05:03	11114236	5484	Continuous	41,020	684
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07/02/2018 08:03	11134286	6136	Continuous	45,897	765
07/02/2018 09:03	11139914	5628	Continuous	42,097	702
07/02/2018 10:03	11145036	5122	Continuous	38,313	639
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07/02/2018 13:03	11154206	2752	Continuous	20,585	343
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07/02/2018 15:03	11159812	2873	Continuous	21,490	358
07/02/2018 16:03	11163534	3722	Continuous	27,841	464

07/02/2018 17:03	11166885	3351	Continuous		25,065	418
07/02/2018 18:03	11170469	3584	Continuous		26,808	447
07/02/2018 19:03	11175087	4618	Continuous		34,543	576
07/02/2018 20:03	11180035	4948	Continuous		37,011	617
07/02/2018 21:03	11184352	4317	Continuous		32,291	538
07/02/2018 22:03	11187613	3261	Continuous		24,392	407
07/02/2018 23:03	11189823	2210	Continuous		16,531	276
07/03/2018 00:03	11191864	2041	Continuous		15,267	254
07/03/2018 01:03	11193695	1831	Continuous		13,696	228
07/03/2018 02:03	11195690	1995	Continuous		14,923	249
07/03/2018 03:03	11197937	2247	Continuous		16,808	280
07/03/2018 04:03	11200854	2917	Continuous		21,819	364
07/03/2018 05:03	11205203	4349	Continuous		32,531	542
07/03/2018 06:03	11211676	6473	Continuous		48,418	807
07/03/2018 07:03	11218652	6976	Continuous		52,180	870
07/03/2018 08:03	11224172	5520	Continuous		41,290	688
07/03/2018 09:03	11228857	4685	Continuous		35,044	584
07/03/2018 10:03	11232490	3633	Continuous		27,175	453
07/03/2018 11:03	11234914	2424	Continuous		18,132	302
07/03/2018 12:03	11237998	3084	Continuous		23,068	384
07/03/2018 13:03	11240827	2829	Continuous		21,161	353
07/03/2018 14:03	11243945	3118	Continuous		23,323	389
07/03/2018 15:03	11247069	3124	Continuous		23,368	389
07/03/2018 16:03	11249874	2805	Continuous		20,981	350
07/03/2018 17:03	11252778	2904	Continuous		21,722	362
07/03/2018 18:03	11256040	3262	Continuous		24,400	407
07/03/2018 19:03	11259955	3915	Continuous		29,284	488
07/03/2018 20:03	11264208	4253	Continuous		31,812	530
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07/03/2018 23:03	11273141	2212	Continuous		16,546	276
07/04/2018 00:03	11275197	2056	Continuous		15,379	256
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07/04/2018 02:03	11278565	1639	Continuous		12,260	204
07/04/2018 03:03	11280607	2042	Continuous		15,274	255
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07/04/2018 06:03	11296027	6429	Continuous		48,089	801
07/04/2018 07:03	11303795	7768	Continuous		58,105	968
07/04/2018 08:03	11309130	5335	Continuous		39,906	665
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07/04/2018 11:03	11322344	3962	Continuous		29,636	494
07/04/2018 12:03	11326107	3763	Continuous		28,147	469
07/04/2018 13:03	11329284	3177	Continuous		23,764	396
07/04/2018 14:03	11332112	2828	Continuous		21,153	353
07/04/2018 15:03	11335518	3406	Continuous		25,477	425
07/04/2018 16:03	11338580	3062	Continuous		22,904	382
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07/04/2018 19:03	11348022	3629	Continuous		27,145	452
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07/04/2018 22:03	11358096	2436	Continuous		18,221	304
07/04/2018 23:03	11360194	2098	Continuous		15,693	262
07/05/2018 00:03	11362212	2018	Continuous		15,095	252
07/05/2018 01:03	11363974	1762	Continuous		13,180	220
07/05/2018 02:03	11365609	1635	Continuous		12,230	204
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07/05/2018 11:03	11407046	3318	Continuous		24,819	414
07/05/2018 12:03	11410111	3065	Continuous		22,926	382
07/05/2018 13:03	11413011	2900	Continuous		21,692	362
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07/05/2018 15:03	11418969	3057	Continuous		22,866	381
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07/05/2018 18:03	11428165	3457	Continuous		25,858	431
07/05/2018 19:03	11432042	3877	Continuous		29,000	483
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07/05/2018 21:03	11440294	3940	Continuous		29,471	491
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07/05/2018 23:03	11445768	2320	Continuous		17,354	289
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07/06/2018 01:03	11449073	1507	Continuous		11,272	188

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07/06/2018 03:03	11452316	1801	Continuous	13,471	225
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07/06/2018 07:03	11474904	7425	Continuous	55,539	926
07/06/2018 08:03	11479834	4930	Continuous	36,876	615
07/06/2018 09:03	11483236	3402	Continuous	25,447	424
07/06/2018 10:03	11486222	2986	Continuous	22,335	372
07/06/2018 11:03	11488999	2777	Continuous	20,772	346
07/06/2018 12:03	11491769	2770	Continuous	20,720	345
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07/06/2018 16:03	11502103	2545	Continuous	19,037	317
07/06/2018 17:03	11504670	2567	Continuous	19,201	320
07/06/2018 18:03	11507689	3019	Continuous	22,582	376
07/06/2018 19:03	11511051	3362	Continuous	25,148	419
07/06/2018 20:03	11514435	3384	Continuous	25,312	422
07/06/2018 21:03	11517769	3334	Continuous	24,938	416
07/06/2018 22:03	11520515	2746	Continuous	20,540	342
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07/07/2018 00:03	11524642	1963	Continuous	14,683	245
07/07/2018 01:03	11526392	1750	Continuous	13,090	218
07/07/2018 02:03	11528128	1736	Continuous	12,985	216
07/07/2018 03:03	11530290	2162	Continuous	16,172	270
07/07/2018 04:03	11533142	2852	Continuous	21,333	356
07/07/2018 05:03	11537618	4476	Continuous	33,480	558
07/07/2018 06:03	11543404	5786	Continuous	43,279	721
07/07/2018 07:03	11548955	5551	Continuous	41,521	692
07/07/2018 08:03	11553212	4257	Continuous	31,842	531
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07/07/2018 10:03	11560684	3639	Continuous	27,220	454
07/07/2018 11:03	11564304	3620	Continuous	27,078	451
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07/07/2018 13:03	11570752	3088	Continuous	23,098	385
07/07/2018 14:03	11573715	2963	Continuous	22,163	369
07/07/2018 15:03	11576654	2939	Continuous	21,984	366
07/07/2018 16:03	11579676	3022	Continuous	22,605	377
07/07/2018 17:03	11582390	2714	Continuous	20,301	338
07/07/2018 18:03	11585356	2966	Continuous	22,186	370
07/07/2018 19:03	11588710	3354	Continuous	25,088	418
07/07/2018 20:03	11592543	3833	Continuous	28,671	478
07/07/2018 21:03	11595921	3378	Continuous	25,267	421
07/07/2018 22:03	11598574	2653	Continuous	19,844	331
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07/08/2018 00:03	11602629	2018	Continuous	15,095	252
07/08/2018 01:03	11604441	1812	Continuous	13,554	226
07/08/2018 02:03	11606243	1802	Continuous	13,479	225
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07/08/2018 06:03	11623986	7142	Continuous	53,422	890
07/08/2018 07:03	11630588	6602	Continuous	49,383	823
07/08/2018 08:03	11634983	4395	Continuous	32,875	548
07/08/2018 09:03	11638656	3673	Continuous	27,474	458
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07/08/2018 11:03	11646103	3758	Continuous	28,110	468
07/08/2018 12:03	11649268	3165	Continuous	23,674	395
07/08/2018 13:03	11652361	3093	Continuous	23,136	386
07/08/2018 14:03	11655499	3138	Continuous	23,472	391
07/08/2018 15:03	11658490	2991	Continuous	22,373	373
07/08/2018 16:03	11661487	2997	Continuous	22,418	374
07/08/2018 17:03	11664486	2999	Continuous	22,433	374
07/08/2018 18:03	11667668	3182	Continuous	23,801	397
07/08/2018 19:03	11671843	4175	Continuous	31,229	520
07/08/2018 20:03	11676408	4565	Continuous	34,146	569
07/08/2018 21:03	11680101	3693	Continuous	27,624	460
07/08/2018 22:03	11683169	3068	Continuous	22,949	382
07/08/2018 23:03	11685372	2203	Continuous	16,478	275
07/09/2018 00:03	11687417	2045	Continuous	15,297	255
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07/09/2018 02:03	11690921	1748	Continuous	13,075	218
07/09/2018 03:03	11693172	2251	Continuous	16,837	281
07/09/2018 04:03	11696249	3077	Continuous	23,016	384
07/09/2018 05:03	11701856	5607	Continuous	41,940	699
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07/09/2018 16:03	11752819	3044	Continuous	22,769	379
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07/09/2018 18:03	11760235	3859	Continuous	28,865	481
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07/10/2018 03:03	11786609	2181	Continuous	16,314	272
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07/10/2018 17:03	11843140	3134	Continuous	23,442	391
07/10/2018 18:03	11846791	3651	Continuous	27,309	455
07/10/2018 19:03	11850968	4177	Continuous	31,244	521
07/10/2018 20:03	11855321	4353	Continuous	32,560	543
07/10/2018 21:03	11859033	3712	Continuous	27,766	463
07/10/2018 22:03	11862091	3058	Continuous	22,874	381
07/10/2018 23:03	11864268	2177	Continuous	16,284	271
07/11/2018 00:03	11866328	2060	Continuous	15,409	257
07/11/2018 01:03	11868102	1774	Continuous	13,270	221
07/11/2018 02:03	11869956	1854	Continuous	13,868	231
07/11/2018 03:03	11872200	2244	Continuous	16,785	280
07/11/2018 04:03	11875362	3162	Continuous	23,652	394
07/11/2018 05:03	11881034	5672	Continuous	42,427	707
07/11/2018 06:03	11888871	7837	Continuous	58,621	977
07/11/2018 07:03	11897831	8960	Continuous	67,021	1,117
07/11/2018 08:03	11903963	6132	Continuous	45,867	764
07/11/2018 09:03	11908832	4869	Continuous	36,420	607
07/11/2018 10:03	11912793	3961	Continuous	29,628	494
07/11/2018 11:03	11916263	3470	Continuous	25,956	433
07/11/2018 12:03	11919425	3162	Continuous	23,652	394
07/11/2018 13:03	11922330	2905	Continuous	21,729	362
07/11/2018 14:03	11924969	2639	Continuous	19,740	329
07/11/2018 15:03	11928176	3207	Continuous	23,988	400
07/11/2018 16:03	11931033	2857	Continuous	21,370	356
07/11/2018 17:03	11935026	3993	Continuous	29,868	498
07/11/2018 18:03	11938740	3714	Continuous	27,781	463
07/11/2018 19:03	11942907	4167	Continuous	31,169	519
07/11/2018 20:03	11947161	4254	Continuous	31,820	530
07/11/2018 21:03	11950650	3489	Continuous	26,098	435
07/11/2018 22:03	11953734	3084	Continuous	23,068	384
07/11/2018 23:03	11956073	2339	Continuous	17,496	292
07/12/2018 00:03	11957915	1842	Continuous	13,778	230
07/12/2018 01:03	11959595	1680	Continuous	12,566	209
07/12/2018 02:03	11961105	1510	Continuous	11,295	188
07/12/2018 03:03	11963009	1904	Continuous	14,242	237
07/12/2018 04:03	11965752	2743	Continuous	20,518	342
07/12/2018 05:03	11970218	4466	Continuous	33,406	557
07/12/2018 06:03	11976731	6513	Continuous	48,717	812
07/12/2018 07:03	11983510	6779	Continuous	50,707	845
07/12/2018 08:03	11988719	5209	Continuous	38,963	649
07/12/2018 09:03	11993013	4294	Continuous	32,119	535
07/12/2018 10:03	11996797	3784	Continuous	28,304	472
07/12/2018 11:03	12000316	3519	Continuous	26,322	439
07/12/2018 12:03	12003541	3225	Continuous	24,123	402
07/12/2018 13:03	12006696	3155	Continuous	23,599	393
07/12/2018 14:03	12009527	2831	Continuous	21,176	353
07/12/2018 15:03	12012997	3470	Continuous	25,956	433
07/12/2018 16:03	12015828	2831	Continuous	21,176	353
07/12/2018 17:03	12019038	3210	Continuous	24,011	400
07/12/2018 18:03	12022781	3743	Continuous	27,998	467
07/12/2018 19:03	12026697	3916	Continuous	29,292	488

07/12/2018 20:03	12031061	4364	Continuous	32,643	544
07/12/2018 21:03	12034935	3874	Continuous	28,978	483
07/12/2018 22:03	12037938	3003	Continuous	22,462	374
07/12/2018 23:03	12040236	2298	Continuous	17,189	286
07/13/2018 00:03	12042316	2080	Continuous	15,558	259
07/13/2018 01:03	12044012	1696	Continuous	12,686	211
07/13/2018 02:03	12045798	1786	Continuous	13,359	223
07/13/2018 03:03	12048131	2333	Continuous	17,451	291
07/13/2018 04:03	12051220	3089	Continuous	23,106	385
07/13/2018 05:03	12056865	5645	Continuous	42,225	704
07/13/2018 06:03	12064785	7920	Continuous	59,242	987
07/13/2018 07:03	12073317	8532	Continuous	63,819	1,064
07/13/2018 08:03	12079816	6499	Continuous	48,613	810
07/13/2018 09:03	12085390	5574	Continuous	41,694	695
07/13/2018 10:03	12090012	4622	Continuous	34,573	576
07/13/2018 11:03	12093954	3942	Continuous	29,486	491
07/13/2018 12:03	12097263	3309	Continuous	24,751	413
07/13/2018 13:03	12100386	3123	Continuous	23,360	389
07/13/2018 14:03	12103694	3308	Continuous	24,744	412
07/13/2018 15:03	12106755	3061	Continuous	22,896	382
07/13/2018 16:03	12109921	3166	Continuous	23,682	395
07/13/2018 17:03	12113012	3091	Continuous	23,121	385
07/13/2018 18:03	12116317	3305	Continuous	24,721	412
07/13/2018 19:03	12119859	3542	Continuous	26,494	442
07/13/2018 20:03	12123763	3904	Continuous	29,202	487
07/13/2018 21:03	12127328	3565	Continuous	26,666	444
07/13/2018 22:03	12130151	2823	Continuous	21,116	352
07/13/2018 23:03	12132411	2260	Continuous	16,905	282
07/14/2018 00:03	12134439	2028	Continuous	15,169	253
07/14/2018 01:03	12136226	1787	Continuous	13,367	223
07/14/2018 02:03	12138125	1899	Continuous	14,205	237
07/14/2018 03:03	12140313	2188	Continuous	16,366	273
07/14/2018 04:03	12143241	2928	Continuous	21,901	365
07/14/2018 05:03	12147784	4543	Continuous	33,982	566
07/14/2018 06:03	12154048	6264	Continuous	46,855	781
07/14/2018 07:03	12160317	6269	Continuous	46,892	782
07/14/2018 08:03	12164766	4449	Continuous	33,279	555
07/14/2018 09:03	12168833	4067	Continuous	30,421	507
07/14/2018 10:03	12172617	3784	Continuous	28,304	472
07/14/2018 11:03	12176253	3636	Continuous	27,197	453
07/14/2018 12:03	12179840	3587	Continuous	26,831	447
07/14/2018 13:03	12183197	3357	Continuous	25,110	419
07/14/2018 14:03	12186296	3099	Continuous	23,181	386
07/14/2018 15:03	12189330	3034	Continuous	22,694	378
07/14/2018 16:03	12192072	2742	Continuous	20,510	342
07/14/2018 17:03	12194685	2613	Continuous	19,545	326
07/14/2018 18:03	12197592	2907	Continuous	21,744	362
07/14/2018 19:03	12200669	3077	Continuous	23,016	384
07/14/2018 20:03	12203921	3252	Continuous	24,325	405
07/14/2018 21:03	12206788	2867	Continuous	21,445	357
07/14/2018 22:03	12209197	2409	Continuous	18,019	300
07/14/2018 23:03	12211121	1924	Continuous	14,392	240
07/15/2018 00:03	12213075	1954	Continuous	14,616	244
07/15/2018 01:03	12214784	1709	Continuous	12,783	213
07/15/2018 02:03	12216644	1860	Continuous	13,913	232
07/15/2018 03:03	12218938	2294	Continuous	17,159	286
07/15/2018 04:03	12221990	3052	Continuous	22,829	380
07/15/2018 05:03	12226971	4981	Continuous	37,258	621
07/15/2018 06:03	12233645	6674	Continuous	49,922	832
07/15/2018 07:03	12240208	6563	Continuous	49,091	818
07/15/2018 08:03	12244435	4227	Continuous	31,618	527
07/15/2018 09:03	12247928	3493	Continuous	26,128	435
07/15/2018 10:03	12251252	3324	Continuous	24,864	414
07/15/2018 11:03	12254650	3398	Continuous	25,417	424
07/15/2018 12:03	12257650	3000	Continuous	22,440	374
07/15/2018 13:03	12260612	2962	Continuous	22,156	369
07/15/2018 14:03	12263388	2776	Continuous	20,764	346
07/15/2018 15:03	12266420	3032	Continuous	22,679	378
07/15/2018 16:03	12269369	2949	Continuous	22,059	368
07/15/2018 17:03	12272326	2957	Continuous	22,118	369
07/15/2018 18:03	12275651	3325	Continuous	24,871	415
07/15/2018 19:03	12279591	3940	Continuous	29,471	491
07/15/2018 20:03	12283586	3995	Continuous	29,883	498
07/15/2018 21:03	12287148	3562	Continuous	26,644	444
07/15/2018 22:03	12289792	2644	Continuous	19,777	330
07/15/2018 23:03	12291928	2136	Continuous	15,977	266
07/16/2018 00:03	12293892	1964	Continuous	14,691	245
07/16/2018 01:03	12295584	1692	Continuous	12,656	211
07/16/2018 02:03	12297382	1798	Continuous	13,449	224
07/16/2018 03:03	12299680	2298	Continuous	17,189	286
07/16/2018 04:03	12302845	3165	Continuous	23,674	395

07/16/2018 05:03	12307719	4874	Continuous	36,458	608
07/16/2018 06:03	12315076	7357	Continuous	55,030	917
07/16/2018 07:03	12323281	8205	Continuous	61,373	1,023
07/16/2018 08:03	12329104	5823	Continuous	43,556	726
07/16/2018 09:03	12333635	4531	Continuous	33,892	565
07/16/2018 10:03	12337138	3503	Continuous	26,202	437
07/16/2018 11:03	12339393	2255	Continuous	16,867	281
07/16/2018 12:03	12342150	2757	Continuous	20,622	344
07/16/2018 13:03	12345100	2950	Continuous	22,066	368
07/16/2018 14:03	12348047	2947	Continuous	22,044	367
07/16/2018 15:03	12350687	2640	Continuous	19,747	329
07/16/2018 16:03	12353318	2631	Continuous	19,680	328
07/16/2018 17:03	12356224	2906	Continuous	21,737	362
07/16/2018 18:03	12359741	3517	Continuous	26,307	438
07/16/2018 19:03	12363787	4046	Continuous	30,264	504
07/16/2018 20:03	12367906	4119	Continuous	30,810	514
07/16/2018 21:03	12371628	3722	Continuous	27,841	464
07/16/2018 22:03	12374405	2777	Continuous	20,772	346
07/16/2018 23:03	12376475	2070	Continuous	15,484	258
07/17/2018 00:03	12378453	1978	Continuous	14,795	247
07/17/2018 01:03	12380173	1720	Continuous	12,866	214
07/17/2018 02:03	12381940	1767	Continuous	13,217	220
07/17/2018 03:03	12384188	2248	Continuous	16,815	280
07/17/2018 04:03	12387156	2968	Continuous	22,201	370
07/17/2018 05:03	12391456	4300	Continuous	32,164	536
07/17/2018 06:03	12397778	6322	Continuous	47,289	788
07/17/2018 07:03	12404713	6935	Continuous	51,874	865
07/17/2018 08:03	12409766	5053	Continuous	37,796	630
07/17/2018 09:03	12413582	3816	Continuous	28,544	476
07/17/2018 10:03	12416798	3216	Continuous	24,056	401
07/17/2018 11:03	12418842	2044	Continuous	15,289	255
07/17/2018 12:03	12421627	2785	Continuous	20,832	347
07/17/2018 13:03	12424015	2388	Continuous	17,862	298
07/17/2018 14:03	12425973	1958	Continuous	14,646	244
07/17/2018 15:03	12427981	2008	Continuous	15,020	250
07/17/2018 16:03	12429973	1992	Continuous	14,900	248
07/17/2018 17:03	12432215	2242	Continuous	16,770	280
07/17/2018 18:03	12434810	2595	Continuous	19,411	324
07/17/2018 19:03	12437673	2863	Continuous	21,415	357
07/17/2018 20:03	12440343	2670	Continuous	19,972	333
07/17/2018 21:03	12442864	2521	Continuous	18,857	314
07/17/2018 22:03	12445149	2285	Continuous	17,092	285
07/17/2018 23:03	12446946	1797	Continuous	13,442	224
07/18/2018 00:03	12448501	1555	Continuous	11,631	194
07/18/2018 01:03	12449763	1262	Continuous	9,440	157
07/18/2018 02:03	12450961	1198	Continuous	8,961	149
07/18/2018 03:03	12452359	1398	Continuous	10,457	174
07/18/2018 04:03	12454360	2001	Continuous	14,967	249
07/18/2018 05:03	12457651	3291	Continuous	24,617	410
07/18/2018 06:03	12462105	4454	Continuous	33,316	555
07/18/2018 07:03	12466933	4828	Continuous	36,113	602
07/18/2018 08:03	12470707	3774	Continuous	28,230	470
07/18/2018 09:03	12473928	3221	Continuous	24,093	402
07/18/2018 10:03	12476811	2883	Continuous	21,565	359
07/18/2018 11:03	12479548	2737	Continuous	20,473	341
07/18/2018 12:03	12482345	2797	Continuous	20,922	349
07/18/2018 13:03	12484729	2384	Continuous	17,832	297
07/18/2018 14:03	12487034	2305	Continuous	17,241	287
07/18/2018 15:03	12490831	3797	Continuous	28,402	473
07/18/2018 16:03	12497730	6899	Continuous	51,605	860
07/18/2018 17:03	12500379	2649	Continuous	19,815	330
07/18/2018 18:03	12503371	2992	Continuous	22,380	373
07/18/2018 19:03	12506545	3174	Continuous	23,742	396
07/18/2018 20:03	12509829	3284	Continuous	24,564	409
07/18/2018 21:03	12512972	3143	Continuous	23,510	392
07/18/2018 22:03	12515714	2742	Continuous	20,510	342
07/18/2018 23:03	12517894	2180	Continuous	16,306	272
07/19/2018 00:03	12519913	2019	Continuous	15,102	252
07/19/2018 01:03	12521593	1680	Continuous	12,566	209
07/19/2018 02:03	12523339	1746	Continuous	13,060	218
07/19/2018 03:03	12525289	1950	Continuous	14,586	243
07/19/2018 04:03	12527857	2568	Continuous	19,209	320
07/19/2018 05:03	12531634	3777	Continuous	28,252	471
07/19/2018 06:03	12537001	5367	Continuous	40,145	669
07/19/2018 07:03	12542274	5273	Continuous	39,442	657
07/19/2018 08:03	12546402	4128	Continuous	30,877	515
07/19/2018 09:03	12549763	3361	Continuous	25,140	419
07/19/2018 10:03	12552819	3056	Continuous	22,859	381
07/19/2018 11:03	12555800	2981	Continuous	22,298	372
07/19/2018 12:03	12558764	2964	Continuous	22,171	370
07/19/2018 13:03	12561486	2722	Continuous	20,361	339

07/19/2018 14:03	12564103	2617	Continuous	19,575	326
07/19/2018 15:03	12566463	2360	Continuous	17,653	294
07/19/2018 16:03	12569289	2826	Continuous	21,138	352
07/19/2018 17:03	12571958	2669	Continuous	19,964	333
07/19/2018 18:03	12575170	3212	Continuous	24,026	400
07/19/2018 19:03	12578722	3552	Continuous	26,569	443
07/19/2018 20:03	12582374	3652	Continuous	27,317	455
07/19/2018 21:03	12585747	3373	Continuous	25,230	421
07/19/2018 22:03	12588414	2667	Continuous	19,949	332
07/19/2018 23:03	12590570	2156	Continuous	16,127	269
07/20/2018 00:03	12592484	1914	Continuous	14,317	239
07/20/2018 01:03	12594116	1632	Continuous	12,207	203
07/20/2018 02:03	12595875	1759	Continuous	13,157	219
07/20/2018 03:03	12597858	1983	Continuous	14,833	247
07/20/2018 04:03	12600668	2810	Continuous	21,019	350
07/20/2018 05:03	12605826	5158	Continuous	38,582	643
07/20/2018 06:03	12613272	7446	Continuous	55,696	928
07/20/2018 07:03	12620767	7495	Continuous	56,063	934
07/20/2018 08:03	12626269	5502	Continuous	41,155	686
07/20/2018 09:03	12630409	4140	Continuous	30,967	516
07/20/2018 10:03	12634343	3934	Continuous	29,426	490
07/20/2018 11:03	12637703	3360	Continuous	25,133	419
07/20/2018 12:03	12640578	2875	Continuous	21,505	358
07/20/2018 13:03	12643141	2563	Continuous	19,171	320
07/20/2018 14:03	12645978	2837	Continuous	21,221	354
07/20/2018 15:03	12648935	2957	Continuous	22,118	369
07/20/2018 16:03	12651458	2523	Continuous	18,872	315
07/20/2018 17:03	12654260	2802	Continuous	20,959	349
07/20/2018 18:03	12657611	3351	Continuous	25,065	418
07/20/2018 19:03	12661168	3557	Continuous	26,606	443
07/20/2018 20:03	12664351	3183	Continuous	23,809	397
07/20/2018 21:03	12667350	2999	Continuous	22,433	374
07/20/2018 22:03	12669822	2472	Continuous	18,491	308
07/20/2018 23:03	12672076	2254	Continuous	16,860	281
07/21/2018 00:03	12674241	2165	Continuous	16,194	270
07/21/2018 01:03	12676168	1927	Continuous	14,414	240
07/21/2018 02:03	12678127	1959	Continuous	14,653	244
07/21/2018 03:03	12680274	2147	Continuous	16,060	268
07/21/2018 04:03	12683251	2977	Continuous	22,268	371
07/21/2018 05:03	12687596	4345	Continuous	32,501	542
07/21/2018 06:03	12693663	6067	Continuous	45,381	756
07/21/2018 07:03	12699751	6088	Continuous	45,538	759
07/21/2018 08:03	12703773	4022	Continuous	30,085	501
07/21/2018 09:03	12707558	3785	Continuous	28,312	472
07/21/2018 10:03	12711102	3544	Continuous	26,509	442
07/21/2018 11:03	12714316	3214	Continuous	24,041	401
07/21/2018 12:03	12717337	3021	Continuous	22,597	377
07/21/2018 13:03	12720235	2898	Continuous	21,677	361
07/21/2018 14:03	12722888	2653	Continuous	19,844	331
07/21/2018 15:03	12725805	2617	Continuous	19,575	326
07/21/2018 16:03	12728094	2589	Continuous	19,366	323
07/21/2018 17:03	12730693	2599	Continuous	19,441	324
07/21/2018 18:03	12733570	2877	Continuous	21,520	359
07/21/2018 19:03	12736469	2899	Continuous	21,685	361
07/21/2018 20:03	12739301	2832	Continuous	21,183	353
07/21/2018 21:03	12741849	2548	Continuous	19,059	318
07/21/2018 22:03	12744089	2240	Continuous	16,755	279
07/21/2018 23:03	12746052	1963	Continuous	14,683	245
07/22/2018 00:03	12747957	1905	Continuous	14,249	237
07/22/2018 01:03	12749647	1690	Continuous	12,641	211
07/22/2018 02:03	12751533	1886	Continuous	14,107	235
07/22/2018 03:03	12753604	2071	Continuous	15,491	258
07/22/2018 04:03	12756548	2944	Continuous	22,021	367
07/22/2018 05:03	12761018	4470	Continuous	33,436	557
07/22/2018 06:03	12766764	5746	Continuous	42,980	716
07/22/2018 07:03	12771885	5121	Continuous	38,305	638
07/22/2018 08:03	12775164	3279	Continuous	24,527	409
07/22/2018 09:03	12778004	2840	Continuous	21,243	354
07/22/2018 10:03	12780796	2792	Continuous	20,884	348
07/22/2018 11:03	12783503	2707	Continuous	20,248	337
07/22/2018 12:03	12785996	2493	Continuous	18,648	311
07/22/2018 13:03	12788516	2520	Continuous	18,850	314
07/22/2018 14:03	12790958	2442	Continuous	18,266	304
07/22/2018 15:03	12793386	2428	Continuous	18,161	303
07/22/2018 16:03	12795788	2402	Continuous	17,967	299
07/22/2018 17:03	12797962	2174	Continuous	16,262	271
07/22/2018 18:03	12800645	2683	Continuous	20,069	334
07/22/2018 19:03	12803508	2863	Continuous	21,415	357
07/22/2018 20:03	12806177	2669	Continuous	19,964	333
07/22/2018 21:03	12808680	2503	Continuous	18,722	312
07/22/2018 22:03	12810832	2152	Continuous	16,097	268

07/22/2018 23:03	12812714	1882	Continuous	14,077	235
07/23/2018 00:03	12814288	1574	Continuous	11,774	196
07/23/2018 01:03	12815533	1245	Continuous	9,313	155
07/23/2018 02:03	12816666	1133	Continuous	8,475	141
07/23/2018 03:03	12817868	1202	Continuous	8,991	150
07/23/2018 04:03	12819869	2001	Continuous	14,967	249
07/23/2018 05:03	12823261	3392	Continuous	25,372	423
07/23/2018 06:03	12828014	4753	Continuous	35,552	593
07/23/2018 07:03	12832898	4884	Continuous	36,532	609
07/23/2018 08:03	12836531	3633	Continuous	27,175	453
07/23/2018 09:03	12839501	2970	Continuous	22,216	370
07/23/2018 10:03	12842379	2878	Continuous	21,527	359
07/23/2018 11:03	12844738	2359	Continuous	17,645	294
07/23/2018 12:03	12847893	3155	Continuous	23,599	393
07/23/2018 13:03	12849786	1893	Continuous	14,160	236
07/23/2018 14:03	12851905	2119	Continuous	15,850	264
07/23/2018 15:03	12854196	2291	Continuous	17,137	286
07/23/2018 16:03	12856349	2153	Continuous	16,104	268
07/23/2018 17:03	12858728	2379	Continuous	17,795	297
07/23/2018 18:03	12861444	2716	Continuous	20,316	339
07/23/2018 19:03	12864403	2959	Continuous	22,133	369
07/23/2018 20:03	12867467	3064	Continuous	22,919	382
07/23/2018 21:03	12870259	2792	Continuous	20,884	348
07/23/2018 22:03	12872674	2415	Continuous	18,064	301
07/23/2018 23:03	12874602	1928	Continuous	14,421	240
07/24/2018 00:03	12876324	1722	Continuous	12,881	215
07/24/2018 01:03	12877744	1420	Continuous	10,622	177
07/24/2018 02:03	12879252	1508	Continuous	11,280	188
07/24/2018 03:03	12880982	1730	Continuous	12,940	216
07/24/2018 04:03	12883134	2152	Continuous	16,097	268
07/24/2018 05:03	12886107	2973	Continuous	22,238	371
07/24/2018 06:03	12890270	4163	Continuous	31,139	519
07/24/2018 07:03	12894839	4569	Continuous	34,176	570
07/24/2018 08:03	12898693	3854	Continuous	28,828	480
07/24/2018 09:03	12902536	3843	Continuous	28,746	479
07/24/2018 10:03	12905719	3183	Continuous	23,809	397
07/24/2018 11:03	12907489	1770	Continuous	13,240	221
07/24/2018 12:03	12909936	2447	Continuous	18,304	305
07/24/2018 13:03	12912265	2329	Continuous	17,421	290
07/24/2018 14:03	12914464	2199	Continuous	16,449	274
07/24/2018 15:03	12916852	2388	Continuous	17,862	298
07/24/2018 16:03	12919801	2949	Continuous	22,059	368
07/24/2018 17:03	12923148	3347	Continuous	25,036	417
07/24/2018 18:03	12926027	2879	Continuous	21,535	359
07/24/2018 19:03	12929253	3226	Continuous	24,130	402
07/24/2018 20:03	12932618	3365	Continuous	25,170	420
07/24/2018 21:03	12935713	3095	Continuous	23,151	386
07/24/2018 22:03	12938234	2521	Continuous	18,857	314
07/24/2018 23:03	12940221	1987	Continuous	14,863	248
07/25/2018 00:03	12942042	1821	Continuous	13,621	227
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07/25/2018 02:03	12945139	1568	Continuous	11,729	195
07/25/2018 03:03	12947037	1898	Continuous	14,197	237
07/25/2018 04:03	12949597	2560	Continuous	19,149	319
07/25/2018 05:03	12954065	4468	Continuous	33,421	557
07/25/2018 06:03	12959837	5772	Continuous	43,175	720
07/25/2018 07:03	12965755	5918	Continuous	44,267	738
07/25/2018 08:03	12969912	4157	Continuous	31,094	518
07/25/2018 09:03	12973195	3283	Continuous	24,557	409
07/25/2018 10:03	12976355	3160	Continuous	23,637	394
07/25/2018 11:03	12979278	2923	Continuous	21,864	364
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07/25/2018 18:03	12996654	2776	Continuous	20,764	346
07/25/2018 19:03	12999605	2951	Continuous	22,073	368
07/25/2018 20:03	13002272	2667	Continuous	19,949	332
07/25/2018 21:03	13004849	2577	Continuous	19,276	321
07/25/2018 22:03	13007045	2196	Continuous	16,426	274
07/25/2018 23:03	13008974	1929	Continuous	14,429	240
07/26/2018 00:03	13010522	1548	Continuous	11,579	193
07/26/2018 01:03	13011639	1117	Continuous	8,355	139
07/26/2018 02:03	13012729	1090	Continuous	8,153	136
07/26/2018 03:03	13013972	1243	Continuous	9,298	155
07/26/2018 04:03	13015824	1852	Continuous	13,853	231
07/26/2018 05:03	13018278	2454	Continuous	18,356	306
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07/26/2018 14:03	13046223	2378	Continuous	17,787	296
07/26/2018 15:03	13048301	2078	Continuous	15,543	259
07/26/2018 16:03	13050486	2185	Continuous	16,344	272
07/26/2018 17:03	13052725	2239	Continuous	16,748	279
07/26/2018 18:03	13055457	2732	Continuous	20,435	341
07/26/2018 19:03	13058257	2800	Continuous	20,944	349
07/26/2018 20:03	13060866	2609	Continuous	19,515	325
07/26/2018 21:03	13063502	2636	Continuous	19,717	329
07/26/2018 22:03	13065986	2484	Continuous	18,580	310
07/26/2018 23:03	13068055	2069	Continuous	15,476	258
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07/27/2018 05:03	13077771	2984	Continuous	22,320	372
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07/27/2018 14:03	13107881	2372	Continuous	17,743	296
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07/27/2018 18:03	13117861	2951	Continuous	22,073	368
07/27/2018 19:03	13120813	2952	Continuous	22,081	368
07/27/2018 20:03	13123574	2761	Continuous	20,652	344
07/27/2018 21:03	13125972	2398	Continuous	17,937	299
07/27/2018 22:03	13128050	2078	Continuous	15,543	259
07/27/2018 23:03	13129879	1829	Continuous	13,681	228
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07/28/2018 01:03	13132515	1122	Continuous	8,393	140
07/28/2018 02:03	13133721	1206	Continuous	9,021	150
07/28/2018 03:03	13135064	1343	Continuous	10,046	167
07/28/2018 04:03	13136851	1787	Continuous	13,367	223
07/28/2018 05:03	13139222	2371	Continuous	17,735	296
07/28/2018 06:03	13142583	3361	Continuous	25,140	419
07/28/2018 07:03	13145987	3404	Continuous	25,462	424
07/28/2018 08:03	13148837	2850	Continuous	21,318	355
07/28/2018 09:03	13151762	2925	Continuous	21,879	365
07/28/2018 10:03	13154778	3016	Continuous	22,560	376
07/28/2018 11:03	13157850	3072	Continuous	22,979	383
07/28/2018 12:03	13160899	3049	Continuous	22,807	380
07/28/2018 13:03	13163775	2876	Continuous	21,512	359
07/28/2018 14:03	13166380	2605	Continuous	19,485	325
07/28/2018 15:03	13168769	2389	Continuous	17,870	298
07/28/2018 16:03	13171035	2266	Continuous	16,950	282
07/28/2018 17:03	13173376	2341	Continuous	17,511	292
07/28/2018 18:03	13175964	2588	Continuous	19,358	323
07/28/2018 19:03	13178523	2559	Continuous	19,141	319
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07/28/2018 22:03	13185304	2061	Continuous	15,416	257
07/28/2018 23:03	13187202	1898	Continuous	14,197	237
07/29/2018 00:03	13188846	1644	Continuous	12,297	205
07/29/2018 01:03	13190230	1384	Continuous	10,352	173
07/29/2018 02:03	13191508	1278	Continuous	9,559	159
07/29/2018 03:03	13192871	1363	Continuous	10,195	170
07/29/2018 04:03	13194843	1972	Continuous	14,751	246
07/29/2018 05:03	13197542	2699	Continuous	20,189	336
07/29/2018 06:03	13201317	3775	Continuous	28,237	471
07/29/2018 07:03	13204638	3321	Continuous	24,841	414
07/29/2018 08:03	13207129	2491	Continuous	18,633	311
07/29/2018 09:03	13209808	2679	Continuous	20,039	334
07/29/2018 10:03	13212709	2901	Continuous	21,699	362
07/29/2018 11:03	13215520	2811	Continuous	21,026	350
07/29/2018 12:03	13218216	2696	Continuous	20,166	336
07/29/2018 13:03	13220921	2705	Continuous	20,233	337
07/29/2018 14:03	13223223	2302	Continuous	17,219	287
07/29/2018 15:03	13225490	2267	Continuous	16,957	283
07/29/2018 16:03	13227747	2257	Continuous	16,882	281

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07/29/2018 18:03	13232727	2795	Continuous		20,907	348
07/29/2018 19:03	13235636	2909	Continuous		21,759	363
07/29/2018 20:03	13238504	2868	Continuous		21,453	358
07/29/2018 21:03	13241180	2676	Continuous		20,016	334
07/29/2018 22:03	13243535	2355	Continuous		17,615	294
07/29/2018 23:03	13245397	1862	Continuous		13,928	232
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07/30/2018 14:03	13289265	2171	Continuous		16,239	271
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07/30/2018 16:03	13293662	2149	Continuous		16,075	268
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07/30/2018 18:03	13298592	2715	Continuous		20,308	338
07/30/2018 19:03	13301688	3096	Continuous		23,158	386
07/30/2018 20:03	13304923	3235	Continuous		24,198	403
07/30/2018 21:03	13308181	3258	Continuous		24,370	406
07/30/2018 22:03	13310815	2634	Continuous		19,702	328
07/30/2018 23:03	13312758	1943	Continuous		14,534	242
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07/31/2018 07:03	13334824	4822	Continuous		36,069	601
07/31/2018 08:03	13338600	3776	Continuous		28,244	471
07/31/2018 09:03	13341654	3054	Continuous		22,844	381
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07/31/2018 12:03	13348696	2364	Continuous		17,683	295
07/31/2018 13:03	13351122	2426	Continuous		18,146	302
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07/31/2018 15:03	13355988	2435	Continuous		18,214	304
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07/31/2018 22:03	13376105	2591	Continuous		19,381	323
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08/01/2018 01:03	13381405	1447	Continuous		10,824	180
08/01/2018 02:03	13382973	1568	Continuous		11,729	195
08/01/2018 03:03	13384831	1858	Continuous		13,898	232
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08/01/2018 20:03	13441676	2948	Continuous		22,051	368
08/01/2018 21:03	13444387	2711	Continuous		20,278	338
08/01/2018 22:03	13446733	2346	Continuous		17,548	292
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08/02/2018 04:03	13458381	2643	Continuous		19,770	329
08/02/2018 05:03	13462277	3896	Continuous		29,142	486
08/02/2018 06:03	13467192	4915	Continuous		36,764	613
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08/02/2018 18:03	13503012	3019	Continuous		22,582	376
08/02/2018 19:03	13506202	3190	Continuous		23,861	398
08/02/2018 20:03	13509253	3051	Continuous		22,821	380
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08/02/2018 22:03	13514267	2366	Continuous		17,698	295
08/02/2018 23:03	13516221	1954	Continuous		14,616	244
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08/03/2018 13:03	13562942	2583	Continuous		19,321	322
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08/04/2018 10:03	13614502	2920	Continuous		21,842	364
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08/04/2018 12:03	13619925	2599	Continuous		19,441	324
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08/05/2018 11:03	13673367	2774	Continuous		20,750	346
08/05/2018 12:03	13677037	3670	Continuous		27,452	458
08/05/2018 13:03	13679629	2592	Continuous		19,388	323
08/05/2018 14:03	13682312	2683	Continuous		20,069	334
08/05/2018 15:03	13684742	2430	Continuous		18,176	303
08/05/2018 16:03	13687210	2468	Continuous		18,461	308
08/05/2018 17:03	13689748	2538	Continuous		18,984	316
08/05/2018 18:03	13692689	2941	Continuous		21,999	367
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08/05/2018 23:03	13705773	1807	Continuous		13,516	225
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08/06/2018 02:03	13710651	1689	Continuous		12,634	211
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08/06/2018 14:03	13752991	2424	Continuous		18,132	302
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08/07/2018 08:03	13809316	4284	Continuous		32,044	534
08/07/2018 09:03	13812406	3090	Continuous		23,113	385
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08/07/2018 16:03	13829186	2438	Continuous		18,236	304
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08/09/2018 02:03	13919831	1338	Continuous		10,008	167
08/09/2018 03:03	13921497	1666	Continuous		12,462	208
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08/09/2018 07:03	13936851	4665	Continuous		34,894	582
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08/09/2018 09:03	13943252	2774	Continuous		20,750	346
08/09/2018 10:03	13946208	2956	Continuous		22,111	369
08/09/2018 11:03	13948908	2700	Continuous		20,196	337
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08/09/2018 21:03	13976656	2900	Continuous		21,692	362
08/09/2018 22:03	13979165	2509	Continuous		18,767	313
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08/15/2018 19:03	14335200	2906	Continuous	21,737	362
08/15/2018 20:03	14337907	2707	Continuous	20,248	337
08/15/2018 21:03	14340663	2756	Continuous	20,615	344
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08/17/2018 04:03	14415552	2685	Continuous	20,084	335
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08/17/2018 06:03	14425761	5757	Continuous	43,062	718
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08/17/2018 08:03	14435444	4375	Continuous	32,725	545
08/17/2018 09:03	14439002	3558	Continuous	26,614	444
08/17/2018 10:03	14442285	3283	Continuous	24,557	409
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08/17/2018 12:03	14447930	2616	Continuous	19,568	326
08/17/2018 13:03	14450510	2580	Continuous	19,298	322
08/17/2018 14:03	14452945	2435	Continuous	18,214	304
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08/17/2018 21:03	14470063	2482	Continuous	18,565	309
08/17/2018 22:03	14472072	2009	Continuous	15,027	250
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08/18/2018 01:03	14476708	1207	Continuous	9,028	150
08/18/2018 02:03	14477671	963	Continuous	7,203	120
08/18/2018 03:03	14478766	1095	Continuous	8,191	137
08/18/2018 04:03	14480438	1672	Continuous	12,507	208
08/18/2018 05:03	14482758	2320	Continuous	17,354	289
08/18/2018 06:03	14486056	3298	Continuous	24,669	411
08/18/2018 07:03	14489129	3073	Continuous	22,986	383
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08/18/2018 15:03	14510172	2326	Continuous	17,398	290
08/18/2018 16:03	14512451	2279	Continuous	17,047	284
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08/18/2018 20:03	14522133	2453	Continuous	18,348	306
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08/19/2018 12:03	14558501	2670	Continuous		19,972	333
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08/20/2018 10:03	14618153	3205	Continuous		23,973	400
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08/21/2018 03:03	14656847	1353	Continuous		10,120	169
08/21/2018 04:03	14658962	2115	Continuous		15,820	264
08/21/2018 05:03	14662103	3141	Continuous		23,495	392
08/21/2018 06:03	14665665	4462	Continuous		33,376	556
08/21/2018 07:03	14671273	4708	Continuous		35,216	587
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08/21/2018 10:03	14680372	2715	Continuous		20,308	338
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08/22/2018 20:03	14765636	2752	Continuous	20,585	343
08/22/2018 21:03	14768272	2636	Continuous	19,717	329
08/22/2018 22:03	14770597	2325	Continuous	17,391	290
08/22/2018 23:03	14772527	1930	Continuous	14,436	241
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08/23/2018 01:03	14775319	1219	Continuous	9,118	152
08/23/2018 02:03	14776502	1183	Continuous	8,849	147
08/23/2018 03:03	14777832	1330	Continuous	9,948	166
08/23/2018 04:03	14779852	2020	Continuous	15,110	252
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08/23/2018 11:03	14801305	2714	Continuous	20,301	338
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08/23/2018 15:03	14811993	2443	Continuous	18,274	305
08/23/2018 16:03	14814303	2310	Continuous	17,279	288
08/23/2018 17:03	14816670	2367	Continuous	17,705	295
08/23/2018 18:03	14819460	2790	Continuous	20,869	348
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08/23/2018 20:03	14825594	3072	Continuous	22,979	383
08/23/2018 21:03	14828341	2747	Continuous	20,548	342
08/23/2018 22:03	14830619	2278	Continuous	17,039	284
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08/24/2018 17:03	14890050	2599	Continuous	19,441	324
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08/25/2018 02:03	14911449	1403	Continuous	10,494	175
08/25/2018 03:03	14913163	1714	Continuous	12,821	214
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08/29/2018 19:03	15274245	3848	Continuous		28,783	480
08/29/2018 20:03	15277969	3724	Continuous		27,856	464
08/29/2018 21:03	15281246	3277	Continuous		24,512	409
08/29/2018 22:03	15284085	2839	Continuous		21,236	354
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08/30/2018 02:03	15290843	1356	Continuous		10,143	169
08/30/2018 03:03	15292500	1657	Continuous		12,394	207
08/30/2018 04:03	15295137	2637	Continuous		19,725	329
08/30/2018 05:03	15299143	4006	Continuous		29,965	499
08/30/2018 06:03	15304652	5509	Continuous		41,207	687
08/30/2018 07:03	15310821	6169	Continuous		46,144	769
08/30/2018 08:03	15315347	4526	Continuous		33,854	564
08/30/2018 09:03	15318838	3491	Continuous		26,113	435
08/30/2018 10:03	15321757	2919	Continuous		21,834	364
08/30/2018 11:03	15324361	2604	Continuous		19,478	325
08/30/2018 12:03	15326892	2531			18,932	316
08/30/2018 13:03	15329652*	2760*		#VALUE!		
08/30/2018 14:03	15332411	2759*		#VALUE!		

APPENDIX C

2015 MONTHLY FLOW DATA

Londonderry Demand and Storage Analysis						
Cohas Meter Station						
2015						
Month	CCF	Days/Month	Average Flow		Average Day (gpm)	16 hour peak (gpm)
			(CCF/day)	(gpd)		
January	12,300	31	397	296,827	206	309
February	12,200	28	436	325,958	226	340
March	11,200	31	361	270,281	188	282
April	11,500	30	383	286,772	199	299
May	13,200	31	426	318,546	221	332
June	18,200	30	607	453,847	315	473
July	21,400	31	690	516,430	359	538
August	17,100	31	552	412,662	287	430
September	20,800	30	693	518,683	360	540
October	20,200	31	652	487,472	339	508
November	16,300	30	543	406,468	282	423
December	12,200	31	394	294,414	204	307
	186,600	365				
Average CCF per day	511					
Average gpd	382,402	Core Ratio =	1.35637995			

APPENDIX D

MOUNTAIN HOMES MAMMOTH ROAD PUMP CURVES



Flow Products, Inc.

800 Koomey Road
Brookshire, TX 77423
Tel.: (281) 934-6301 Fax: (800) 945-4777

PACO PUMPS®

SCOPE of SUPPLY

Date: January 15, 2001
Reference: MOUNTAIN HOME ESTATES PUMP STATION

PACO Pumps is pleased to offer for your consideration on this project the following equipment:

Quantity (2), Model 25957 w/ 30 HP Motor, (300 GPM @ 215' TDH)

- Horizontal Single Stage Flexibly Coupled End Suction Pump, Type LF, Product Code 11
- Pump has 125# ANSI flanges/cast iron casing/bronze impeller/bronze case wear ring/steel shaft/bronze sleeve/Buna-Ni-Resist mechanical seal/manual valves mounted on suction & discharge of each pump/6L bearing frame/sealed for life bearings
- Motor is horizontal/3500 RPM/230-460 V/3 Phase/60 Hz/Premium Efficiency (suitable for use w/ VFD)/ODP
- Pump & Motor mounted on steel base with coupling & coupling guard

Quantity (2), Model 40959 w/ 75 HP Motor, (900 GPM @ 235' TDH)

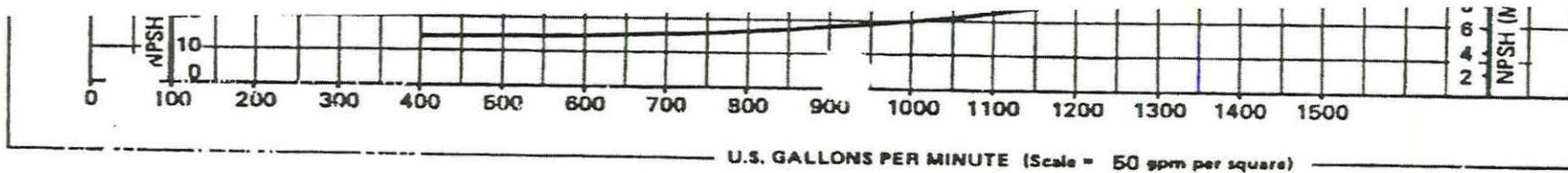
- Horizontal Single Stage Flexibly Coupled End Suction Pump, Type LF, Product Code 11
- Pump has 125# ANSI flanges/cast iron casing/bronze impeller/bronze case wear ring/steel shaft/bronze sleeve/Buna-Ni-Resist mechanical seal/manual valves mounted on suction & discharge of each pump/6L bearing frame/sealed for life bearings
- Motor is horizontal/3500 RPM/230-460 V/3 Phase/60 Hz/Premium Efficiency (suitable for use w/ VFD)/ODP
- Pump & Motor mounted on steel base with coupling & coupling guard

Respectfully yours,

A handwritten signature in black ink that reads 'Jennifer Lee'.

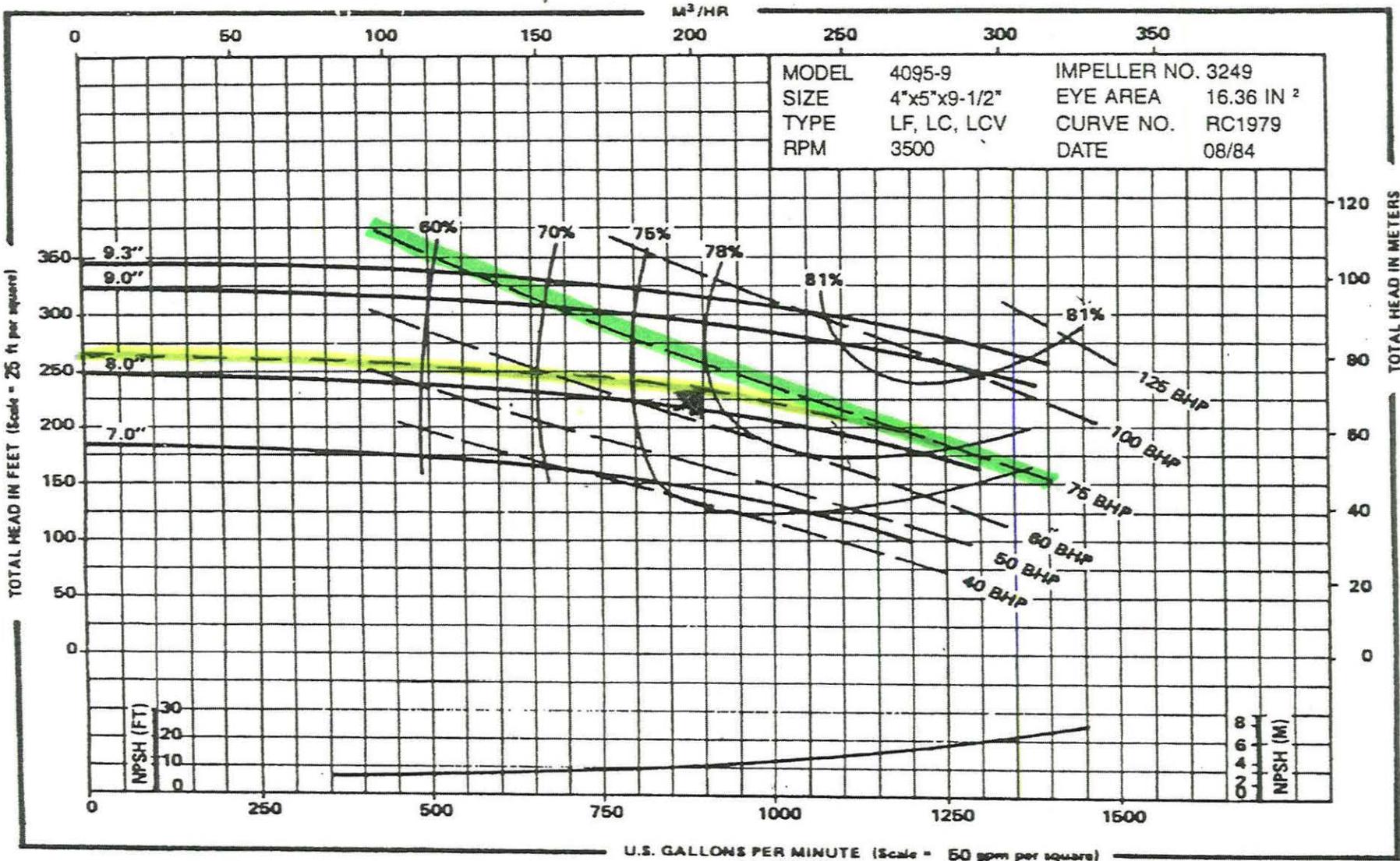
Jennifer Lee
Municipal Project Administrator

*Review from Paul &
mem math.*



#1 & #2

2 pumps

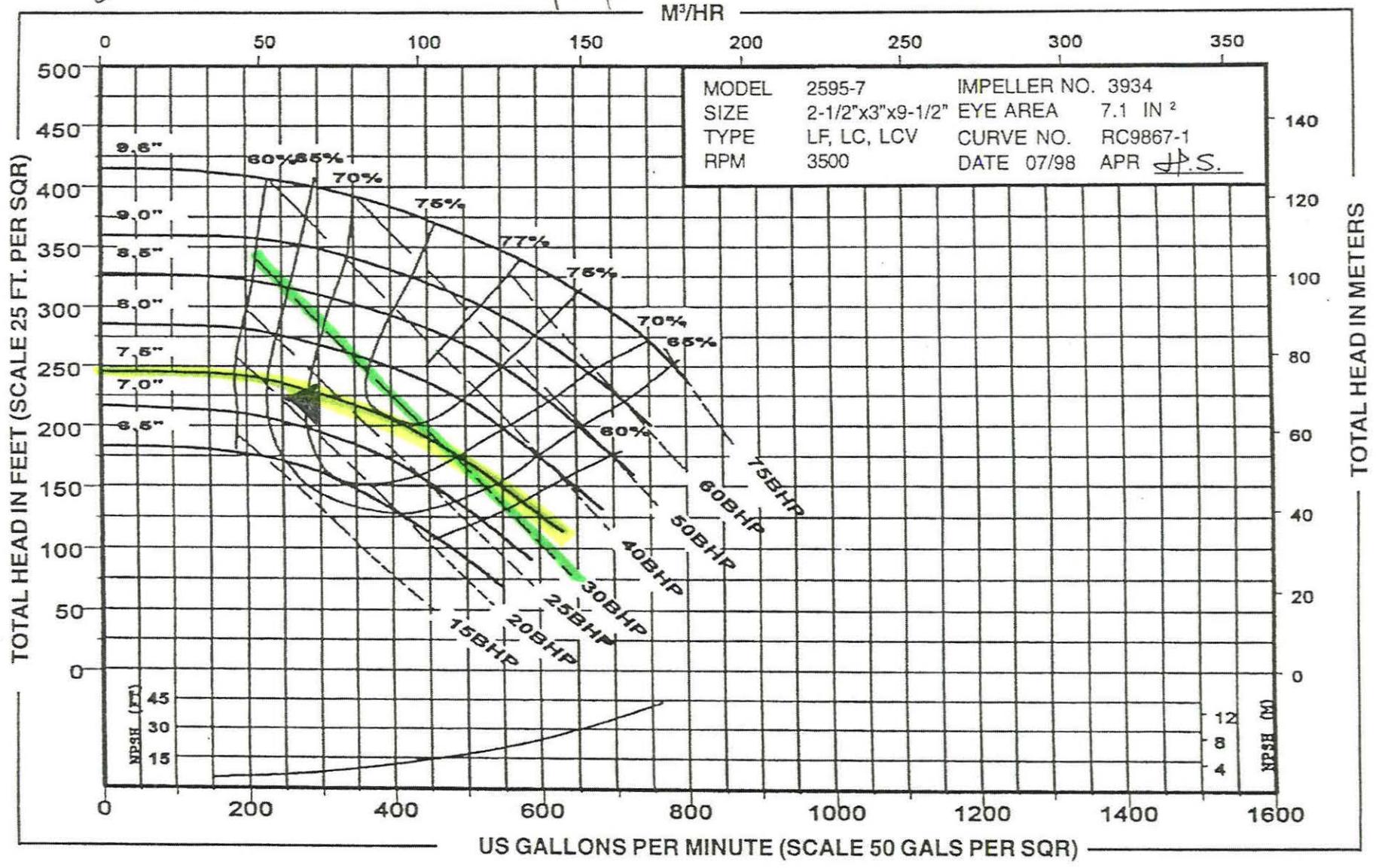


PERFORMANCE CURVES 3500 RPM

#3 & #4

2 pumps

MOUNTAIN HOMES GRATES



APPENDIX E

MOUNTAIN HOME
ESTATES SCADA

Mountain Home Estates Pumping Station
SCADA Narrative
Revised October 6, 2004

The Mountain Home Estates pumps will be controlled through HAND/OFF/REMOTE switches at the pumping station.

In the HAND position, the pumps will be run exclusive of the SCADA control.

In the REMOTE position, the pumps will be controlled from the SCADA interface.

The SCADA interface shall provide for an AUTO/OFF selection of each pump from the SCADA interface. In the OFF position, the pump will not run unless it is turned to the HAND position with the HOR at the station itself.

In the AUTO position, the pump will be controlled by the SCADA logic as specified below:

There will be a LEAD/LAG/LAG-LAG/FIRE selector at the SCADA interface. The pumps will operate as follows:

Lead Pump –

VFD Controlled

Runs at all times to maintain a pressure of **106 psi**.

The Lead pump will alternate leading with the Lag pump.

Lag pump –

VFD Controlled.

Runs to maintain a pressure of **106 psi**.

Turns on when flow out of the Mountain Home Estates Pumping increases to **375 gpm** for at least **2 seconds** or the pressure drops to **101 psi** for at least **12 seconds**.

Turns off when the flow out of the Mountain Home Estates Booster drops to **350 gpm** for at least **60 seconds**.

Minimum pump run time shall be 2 minutes

Lag-Lag pump - VFD Controlled.
Runs to maintain a pressure of **106 psi**.
Turns on when flow out of the Mountain Home Estates Booster increases to **750 gpm** for at least **5 seconds** or the pressure drops to **98 psi** for at least **15 seconds**.
Turns off when the flow out of the Mountain Home Estates Booster drops to **600 gpm** for at least **60 seconds**.
Minimum pump run time shall be 2 minutes

FIRE pump - VFD Controlled
Runs to maintain a pressure of **106 psi**
Turns on when the flow out of the Mountain Home Estates Booster increases to **1250 gpm** for at least **10 seconds** or the pressure drops to **93 psi** for at least **20 seconds after the fire pump turns on**.
Turns off when the flow out of the Mountain Home Estates Booster drops to **1000 gpm** for at least **90 seconds**
Minimum pump run time shall be 2 minutes.

A Low Discharge pressure alarm will occur if the station pressure falls below **90 psi for more than 45 seconds**.

A Low Low Discharge pressure alarm will occur if the station pressure falls below **80 psi for more than 60 seconds**.

A High Discharge pressure alarm will occur if the station pressure exceeds **120 psi for more than 60 seconds**.

A Low Suction pressure alarm will occur if the station pressure falls below **20 psi for more than 30 seconds**.

A Low Low Suction pressure alarm will occur if the station pressure falls below **12 psi for more than 10 seconds**. The low low suction pressure alarm will cause the VFD speed controller to adjust the pump speed so that the suction pressure will not drop below **15 psi**. **In the event that the suction pressure drops below 5 psi for more than 60 seconds then the station pumps will shut down and will need to be manually reset at the station.**

All pressure alarms will be operator selectable.

A loss of phase alarm will result in an alarm and will lock out the pumps until they are reset with the reset button at the SCADA interface.

If a pump is called to run and it fails to run then a pump fail alarm shall occur. If it is the lead pump which fails to run the lag pump will automatically become the lead pump and operate at the preset parameters for the lead pump. If a pump is turned off with its local HOA switch the pumps following that pump in the pump sequencing shall automatically move up one pump position and shall operate with the parameters of the new pump position.

Pump run times will be recorded on the SCADA pump run screen.

Real time Flow rate will be visible on the SCADA screen.

Suction and Discharge Pressures will be visible on the SCADA screen.

There will be a loss of radio alarm for this station. The radio will be provided with battery back up.

This station will also have alarms for intrusion, high and low building temperature and power failure.

All lead and lag start and stop flow settings setting will be adjustable from the SCADA interface.

Historical trending shall be available as follows:

- a. Suction Pressure, Discharge Pressure, pump speeds and Flow rate.

Pump “On” Operational Settings – Flow

Flow (gpm)-	Status of Lead Pump	Status of Lag Pump	Status of Lag-Lag Pump	Status of Fire Pump
0 – 375	ON	OFF	OFF	OFF
375-750	ON	ON	OFF	OFF
750-1250	ON	ON	ON	OFF
1250+	ON	ON	ON	ON

Pump “Off” Operational Settings – Flow

Flow (gpm)-	Status of Lead Pump	Status of Lag Pump	Status of Lag-Lag Pump	Status of Fire Pump
0 – 350	ON	OFF	OFF	OFF
350-600	ON	ON	OFF	OFF
600-1000	ON	ON	ON	OFF

APPENDIX F

SOUTH ROAD BOOSTER STATION PUMPS CURVES

R.E. PRESCOTT CO., INC.

PUMPS & EQUIPMENT
IN N.M. (800) 479-4320
PHONE (388) 786-7482
FAX (603) 772-1089

PUMP-FLO ver: 6.04
02/21/01

PUMP DATA SHEET GRISWOLD

Selection: (untitled)
Cat: GRSWLD60.CIP v 1.1

Cu: A-256

Design Pt: Flow: 650 US gpm
Head: 200 ft

Fluid: Wa Temperature: 60 °F
SG: 1

Pu: END-SUCTION - : Size: R4GH
Speed: 3500 rpm Dia: 7.33 in

Viscosity: 1.122 cP
Vapor pressure: 0.25"
Atm pressure: 14.7"

Llr: Temperature: ---
Pressure: --- g
Sphere size: --- in
Power: --- bhp

NPSHa: --- ft

Specific Sp: Ne: --- Nss: ---

Piping: System: ---

Dimension: Suction: 5 in Discharge: 4 in

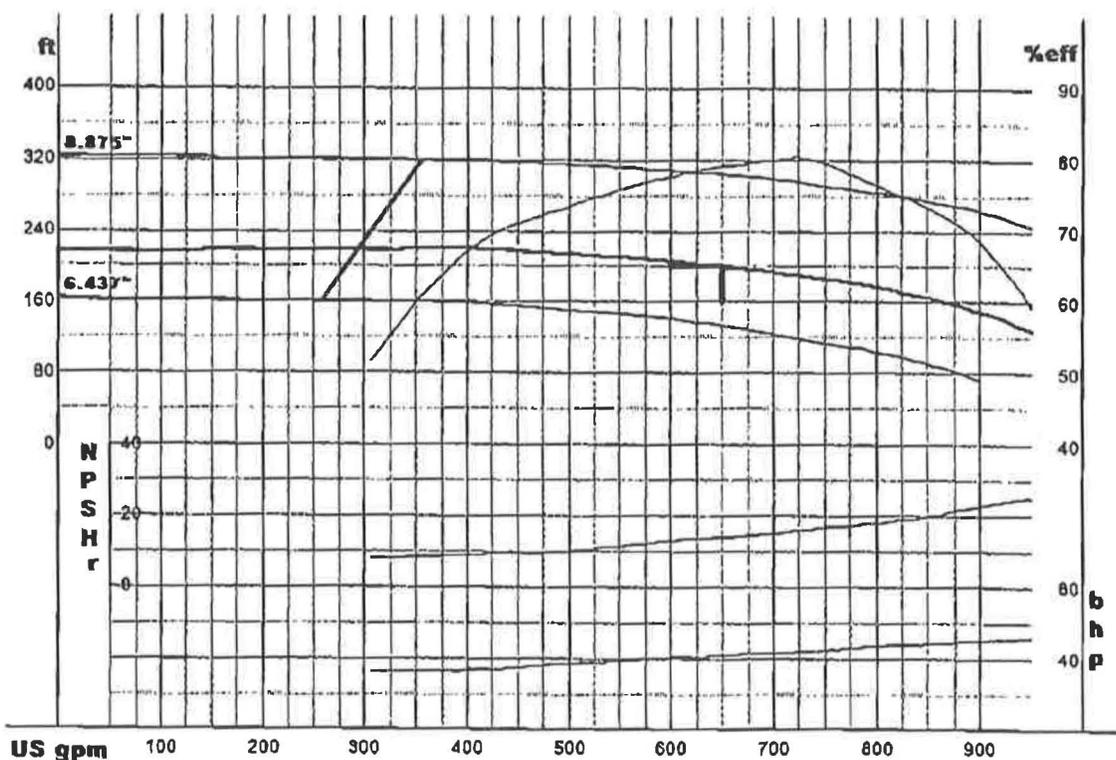
Suction: --- in
Discharge: --- in

Motor: 60 h Speed: 3600 Frame: 364TS
NEMA Stan: TEFC Enclosure
sized for Max Power on Design Curve

— Data Point —
Flow: 650 US gpm
Head: 200 ft
Eff: 79%
Power: 41.5 bhp
NPSHr: 14 ft

— Design Curve —
Shutoff Head: 217 ft
Shutoff dP: 93.9 psi
Min Flow: 307 US gpm
BEP: 80% off
@ 715 US gpm
NOL Pwr: 51.9 bhp
@ 950 US gpm

— Max Curve —
Max Pwr: 80.3 bhp
@ 950 US gpm



— PERFORMANCE EVALUATION —

Flow US gpm	Speed rpm	Head ft	Pump %off	Power bhp	NPSHr ft	Motor %eff	Motor kW	Hrs/yr	Cost kWh
780	35	18	77	46	17.4				
650	35	20	79	41	14				
520	35	21	74	37	10.6				
390	35	22	65	33	8.88				
260	Flow Rate is Out of Range for this Pump								

South Road Pump Curves

APPENDIX G

SOUTH ROAD SCADA

South Road Booster Station
SCADA Narrative
Revised April 3, 2002

The South Road booster pumps will be controlled through HAND/OFF/REMOTE switches at the pumping station.

In the HAND position, the pumps will be run exclusive of the SCADA control.

In the REMOTE position, the pumps will be controlled from the SCADA interface.

The SCADA interface shall provide for an AUTO/OFF selection of each pump from the SCADA interface. In the OFF position, the pump will not run unless it is turned to the HAND position with the HOR at the station itself.

In the AUTO position, the pump will be controlled by the SCADA logic as specified below:

There will be a LEAD/LAG selector at the SCADA interface. The pumps will operate as follows:

Lead Pump – VFD controlled

Runs once a week on **Monday** morning @ **8:00 a.m.** for 30 minutes. Runs to maintain a pressure of **126 psi**.
At all other times this pump runs to maintain a pressure of **110 psi** when the pressure at South Road Station drops to **105 psi** for at least 5 seconds.
Shuts down when pressure increases to **114 psi** for at least 2 minutes
Minimum pump run time shall be 2 minutes
Minimum pump off time of 2 minutes.

Lag pump – VFD controlled

Runs once a week on **Tuesday** morning @ **8:00 a.m.** for 30 minutes. Runs to maintain a pressure of **126 psi**.
At all other times this pump runs to maintain a pressure of **110 psi** when the pressure at South Road Station drops to **102 psi** for at least 5 seconds.
Shuts down when pressure increases to **114 psi** for at least 2 minutes
Minimum pump run time shall be 2 minutes

The Chlorine Feed in the station shall be paced to flowrate.

The flow out of the station shall be limited to **1250 gpm**. When the flow out of the station reaches **1250 gpm** the pump speed shall be reduced in order to limit the flow out of the station to **1250 gpm**.

A Low Discharge pressure alarm will occur if the station pressure falls below **100 psi for more than 60 seconds**.

A Low Low Discharge pressure alarm will occur if the station pressure falls below **90 psi for more than 60 seconds**.

A High Discharge pressure alarm will occur if the station pressure exceeds **135 psi**.

A Low Suction pressure alarm will occur if the station pressure falls below **65 psi for more than 60 seconds**.

A Low Low Suction pressure alarm will occur if the station pressure falls below **15 psi for more than 20 seconds**. The low low pressure alarm will lock out the pumps until the pressure exceeds **30 psi for more than 60 seconds**. The pumps should be capable of running in Hand during a Low Low Suction alarm.

All pressure alarms will be operator selectable.

A loss of phase alarm will result in an alarm and will lock out the pumps until they are reset with the reset button at the SCADA interface @ the station.

If a pump is called to run and it fails to run then a pump fail alarm shall occur. If it is the lead pump which fails to run the lag pump will automatically become the lead pump and operate at the preset parameters for the lead pump.

Pump run times will be recorded on the SCADA pump run screen @ the WTP.

Real time Flow rate will be visible on the SCADA screen @ the WTP.

Suction and Discharge Pressures will be visible on the SCADA screen @ the WTP.

There will be a loss of radio alarm for this station. The radio will be provided with battery back up.

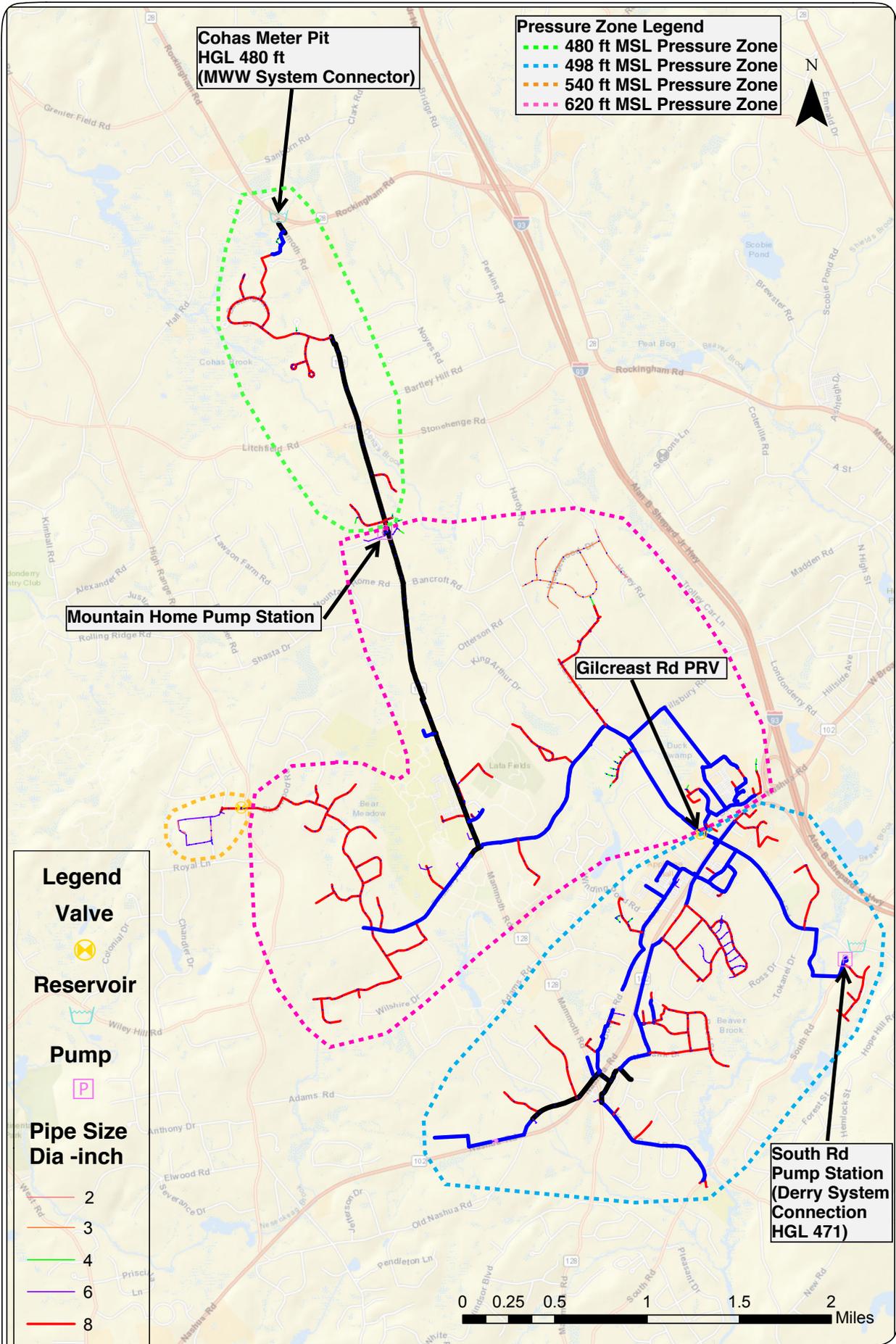
This station will also have alarms for intrusion, high and low building temperature and power failure.

All lead and lag start and stop flow settings will be adjustable from the SCADA interface.

Historical trending shall be available as follows:

- a. Suction Pressure, Discharge Pressure, and Flow rate.

FIGURES



**Cohas Meter Pit
HGL 480 ft
(MWW System Connector)**

Pressure Zone Legend
 ●●●● 480 ft MSL Pressure Zone
 ●●●● 498 ft MSL Pressure Zone
 ●●●● 540 ft MSL Pressure Zone
 ●●●● 620 ft MSL Pressure Zone

N

Mountain Home Pump Station

Gilcreast Rd PRV

**South Rd Pump Station
(Derry System Connection
HGL 471)**

Legend

Valve

Reservoir

Pump

**Pipe Size
Dia -inch**

- 2
- 3
- 4
- 6
- 8
- 12
- 14
- 16

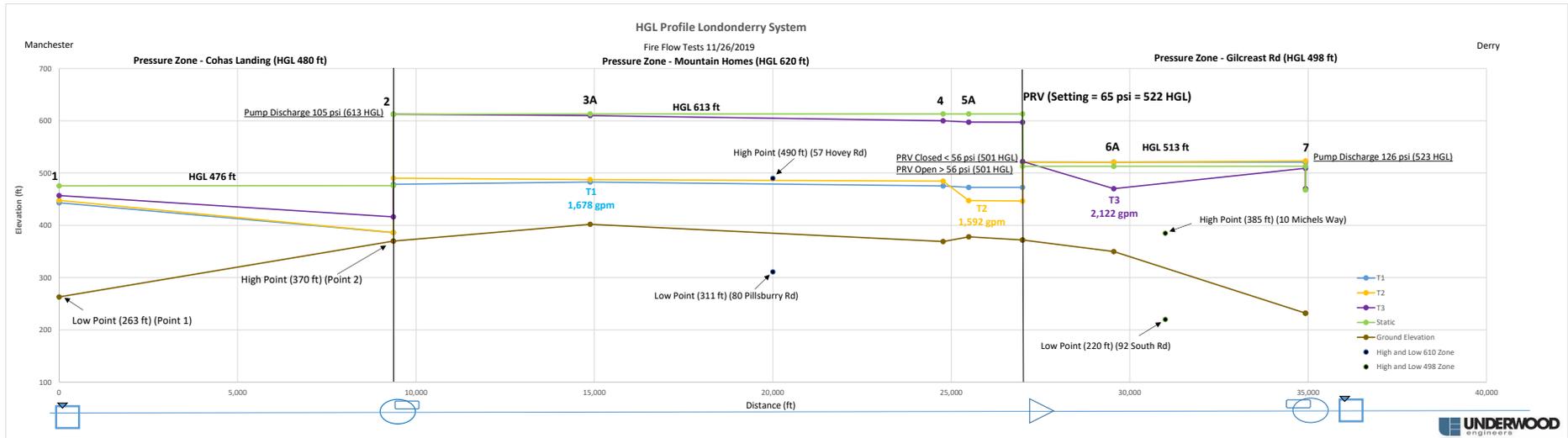


DATE 1/20	UNDERWOOD engineers 25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733	LONDONDERRY WATER MODEL EXISTING SYSTEM	FIG. 1
PROJECT 2421			

Londonderry, NH
HGL Profile
1.3.2019

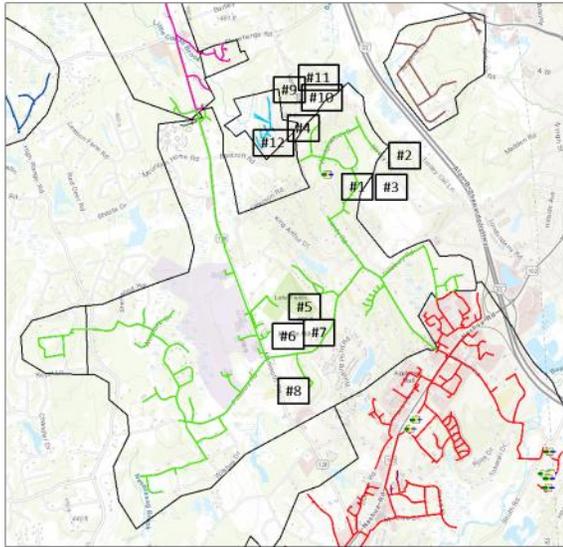
Location #	Location	Distance (ft)	Elevation (ft)	Pressure T1 (psi)	HGL T1 (ft)	Pressure T2 (psi)	HGL T2 (ft)	Pressure T3 (psi)	HGL T3 (ft)	Static Pressure (psi)	Static HGL (ft)	Notes
1	Logger Pressure (491 Mammoth Rd)	0	263	78	443	80	448	84	457	92	476	
2	Mountain Home Pumps Suction (201 Fieldstone Dr)	9,366	370	7	386	7	386	20	416	40	476	
2	Mountain Home Pumps (discharge) (201 Fieldstone Dr)	9,366	370	47	479	52	490	105	613	105	613	
3A	High School (295 Mammoth Rd) Pressure	14,884	402	35	483	37	487	90	610	91	613	
4	Logger Pressure (2 Spring Rd)	24,772	369	46	475	50	485	100	600	106	613	
5A	Pressure (0 Sugarplum Ln)	25,491	378	41	473	30	447	95	597	102	613	
P1	PRV	27,000	372	44	473	32	447	98	597	104	613	
P2	PRV	27,000	372	65	521	65	521	65	522	61	513	
6A	Pressure 41 Nashua Rd	29,553	350	74	521	74	521	52	470	71	513	
7	South Rd BPS Discharge (182 South Rd)	34,927	232	125	521	126	523	120	509	122	513	
7	South Rd BPS Suction (182 South Rd)	34,927	232	103	470	103	470	103	470	102	468	

1 psi = 2.31 ft
 Highest point in system = 490 ft
 Lowest point in system = 220 ft
 The High and low service points for pressures zones 610 and 498 branch off. The distance does not represent where it is located. Street address is indicated for reference.



JJB Figure 3 Alternate Elevated Tank Locations

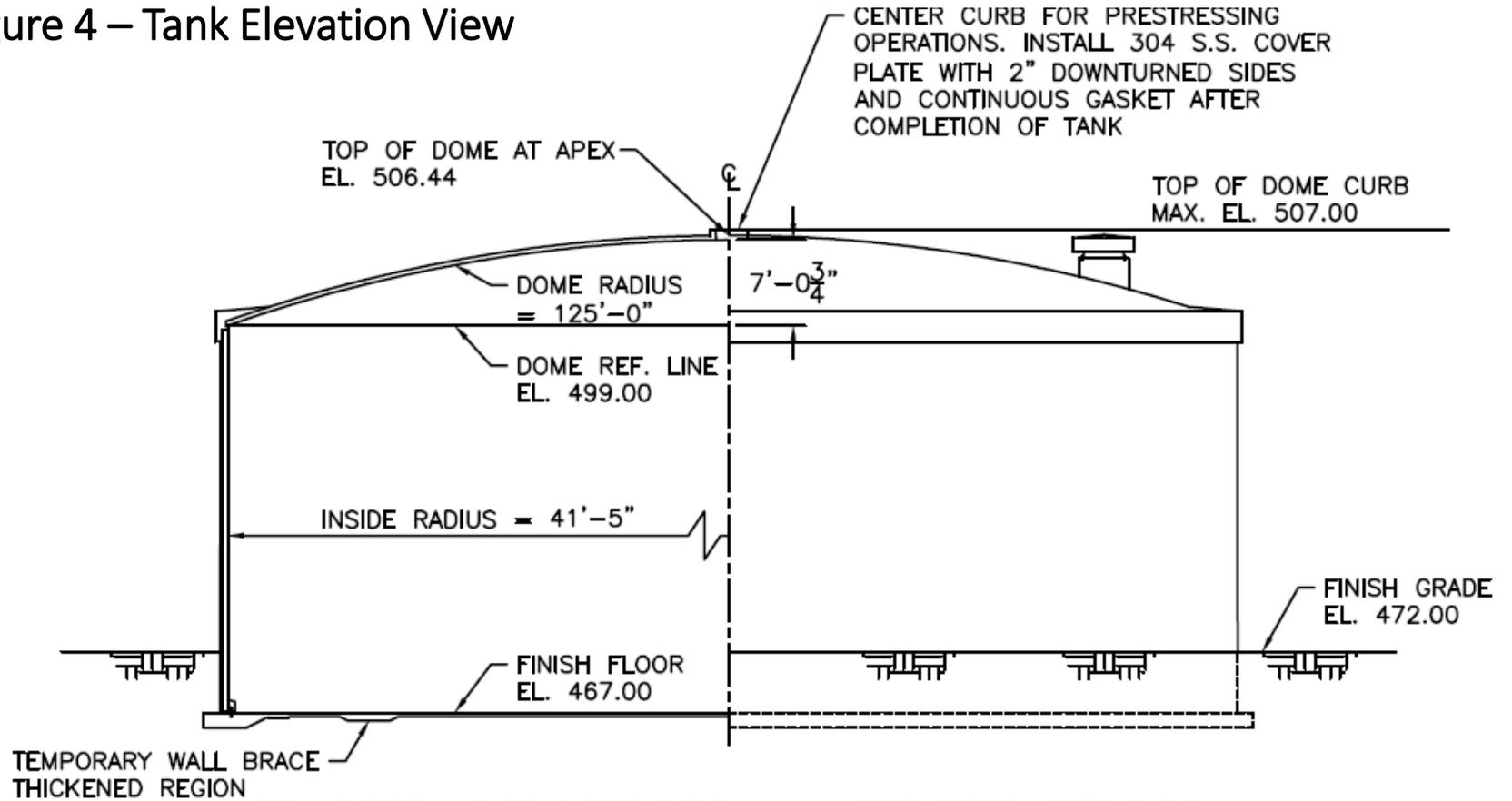
Potential Tank Sites
(Location Map)



Tank Site Characteristics

Site No.	Location	Ownership	Special Conditions	Zoning	Ground Elevation	Tank Height	Height
					(ft - msl)	(ft above ground)	Limit
1	Gordon Drive	Pennichuck East Utility	Open Land	Agricultural-Residential	470	156	35
2	Hovey Road	Pillsbury Realty Development, LLC	Open Land	PUD	470 - 500	156 - 126	N.A.
3	Pillsbury Road	Pillsbury Realty Development, LLC	Open Land	PUD	470 - 480	156 - 146	N.A.
4	Hardy Road	Electric Utility	High Tension Power Lines	Agricultural-Residential			
5	Sargent Road	Town of Londonderry	Recreation	Agricultural-Residential	450 - 460	176 - 166	35
6	Sargent Road	Federal Aviation Administration	Unknown	Agricultural-Residential	450 - 460	176 - 166	35
7	Sargent Road	Federal Aviation Administration	Unknown	Agricultural-Residential	450 - 460	176 - 166	35
8	Pillsbury Road	Private	Orchard	Agricultural-Residential	440	186	35
9	Hardy Road	Private	Open Land	Agricultural-Residential	470 - 510	156 - 116	35
10	Hardy Road	Private	Open Land	Agricultural-Residential	470 - 510	156 - 116	35
11	Hardy Road	Private	Open Land	Agricultural-Residential	470 - 490	156 - 136	35
12	S. Parish Drive	Association	Condos/Open Land	Agricultural-Residential	450 - 500	176 - 126	35

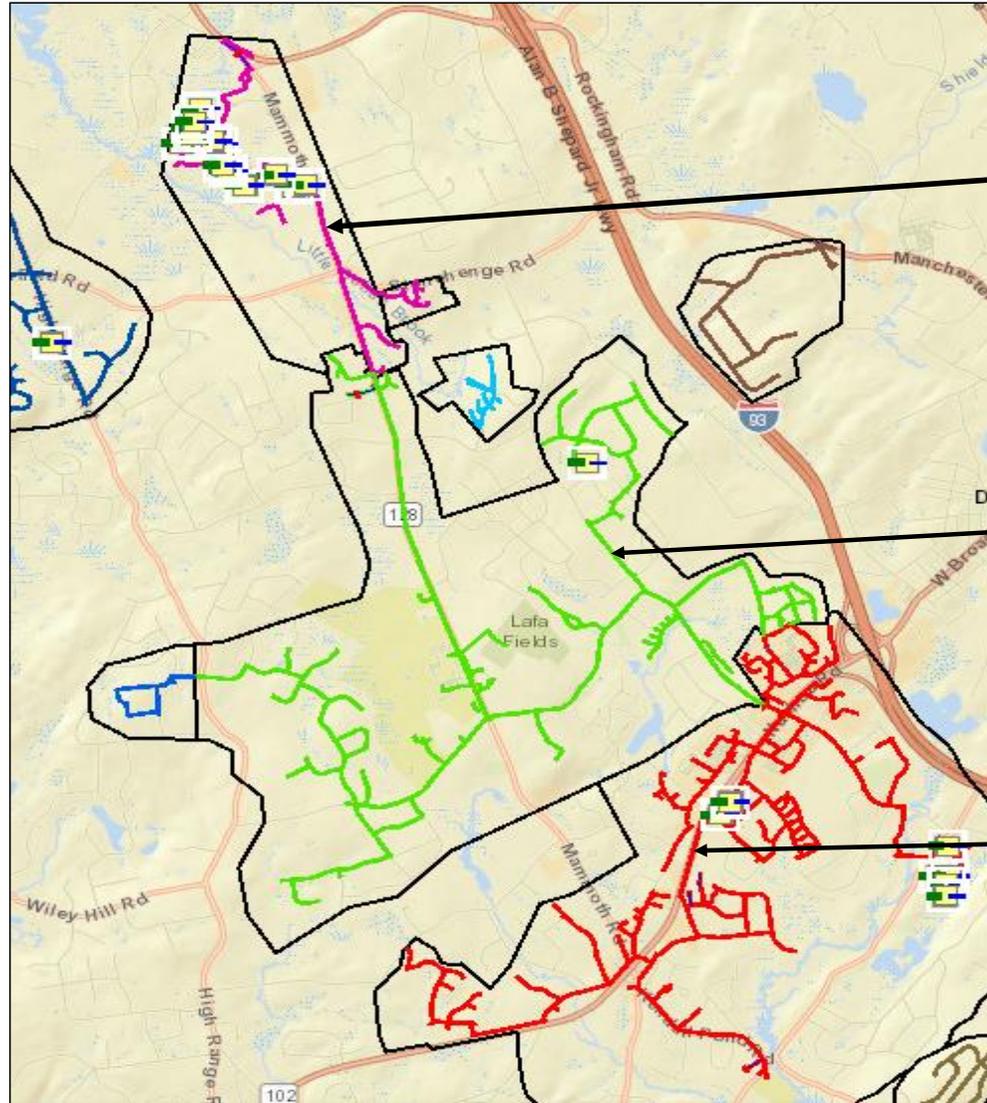
JJB Figure 4 – Tank Elevation View



TANK SECTION & ELEVATION

SCALE: $\frac{3}{32}$ " = 1'-0"

Figure 5:
Londonderry Core
Pressure Zone
Map



465 Pressure Zone
(magenta)

620 Pressure Zone
(green)

498 Pressure Zone
(red)

Schedule A - Attachment 1				
Londonderry Core Demand Estimates				
Domestic Demand	Volume/Flow			Comments
Londonderry Core Existing Demand	382,402	GPD		Based on 2015 water use data
Londonderry Core Future Demand	89,616	GPD		Projected from increased customer growth 2006 through 2015
Woodmont Commons Demand	405,488	GPD		Based on information provided by Pillsbury consultants
Total Future Average Day Demand	877,506	GPD		
Maximum Day to Average Day Factor	1.4			Based on historic metered data
Estimated Maximum Day	1,228,508	GPD		
Fire Flow Requirements				
Tank Volume				
	Flow (GPM)	Duration (MIN)	Volume (GAL)	Comments
Sector				
Londonderry Core	2,400	120	288,000	Based on existing PEU Londonderry Core requirements
Woodmont Commons (in conjunction with Londonderry Core)	1,100	120	132,000	Part of Woodmont fire flow is included with existing Londonderry Core requirements
Woodmont Commons (in addition to Londonderry Core)	3,500	60	210,000	Woodmont flow and volume in excess of the existing Londonderry Core requirements
Total Fire Flow Volume			630,000	
Tank Capacity				
				Comments
Average Day Demand	877,506	GAL		
Supply Pumping Capacity	405,000	GAL		Supply pumping capacity during 180 minute fire flow.
Required Domestic Volume	472,506	GAL		Averaged Day Demand - Supply Pumping
Fire Flow Volume	630,000	GAL		
Calculated Volume	1,102,506	GAL		Tank volume is "Required Domestic Volume" plus "Fire Flow Volume"
Nominal Volume	1,250,000	GAL		Final tank size is based on nominal tank volumes furnished by suppliers and in consideration of pumping (supply capacity)

Schedule A - Attachment 2					
Londonderry Storage Tank, Transmission Main, & Booster Station					
Estimated Cost as of November 21, 2019					
Item	Quantity	Units	Unit Cost	Total	
1,200 gpm High Flow Pumps	4	Each	\$ 35,000.00	\$ 140,000.00	
250 gpm Domestic Pumps	2	Each	\$ 10,000.00	\$ 20,000.00	
3 Phase Power	200	Feet	\$ 75.00	\$ 15,000.00	
Electrical System for new Pumps, Controls and Generator	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	
Emergency Generator	1	Each	\$ 125,000.00	\$ 125,000.00	
Building Structure	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	
Mechanical Fit Up	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	
Site Work	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	
1,250,000 gallon Storage Tank	1	Lump Sum	\$ 1,000,000.00	\$ 1,000,000.00	
16 inch DI Transmission Main	6300	LF	\$ 125.00	\$ 787,500.00	
				Estimated Construction Capital Cost:	\$ 2,987,500.00
Phase	Date Range		Estimated Cost	Pillsbury Share (51% of Total Cost)	PEU Share (49% of Total Cost)
Design	December 2019	March 2020	\$ 59,750.00	\$ 30,379.16	\$ 29,370.84
Permitting (Town)	February 2020	April 2020	\$ 30,000.00	\$ 15,253.13	\$ 14,746.87
Bidding (Three Contracts: Tank, Pipeline, & Station)	April 2020	July 2020	\$ 15,000.00	\$ 7,626.57	\$ 7,373.43
Construction	July 2020	July 2021	\$ 2,987,500.00	\$ 1,518,958.01	\$ 1,468,541.99
Construction Administration	June 2020	December 2020	\$ 59,750.00	\$ 30,379.16	\$ 29,370.84
Total Project Budget Estimate:			\$ 3,152,000.00	\$ 1,602,596.03	\$ 1,549,403.97
CIAC Estimates and Apportionment (see footnote 1)			Amount Subject to CIAC:	\$ 1,602,596.03	
			CIAC Tax Rate:	34.39%	
			CIAC Tax Amount:	\$ 551,132.78	
			PEU CIAC Share at 49%:	\$ 270,055.06	
			Pillsbury CIAC Share at 51%:	\$ 281,077.72	
Notes:					
Schedule assumes timely regulatory approvals and permits and the executed PEU Pillsbury agreements.					
Easements from Pillsbury will be necessary for the Transmission Main and the Booster Station site.					

Schedule A Attachment 3							Woodmont
			Allocated Cost	PEU Londonderry	Cost Share	Woodmont	Commons
				Core	PEU	Commons	Cost Share
				%		%	
Fire Flow Volume	630,000	gallons	\$ 1,805,236	45.714%	\$ 825,251	54.286%	\$ 979,985
Domestic Volume	470,000	gallons	\$ 1,346,764	53.770%	\$ 724,153	46.230%	\$ 622,611
			\$ 3,152,000		\$ 1,549,404		\$ 1,602,596
Estimated Tank Cost						\$ 3,152,000.00	
				Weighted Apportionment:	49.156%	50.844%	
					PEU	Woodmont	

Schedule A					
Attachment 4	Wastewater				
Woodmont Commons Phase/Section	Flow GPD	Comments			
1-GL	26,428	Redevelopment of Existing Properties - No New Demand			
Phase 1	59,265	Redevelopment of Existing Properties - No New Demand			
1	100,361	New Development			
2	64,640	New Development			
3	-	No Development			
4	12,850	New Development			
5	4,950	New Development			
6	7,200	New Development			
7	10,800	New Development			
8	106,960	New Development			
9	23,400	New Development			
10	30,740	New Development			
11	10,800	New Development			
12	280,675	New Development			
Total Woodmont Commons Demand	653,376				
Less Redevelopment 1-GL & Ph1	567,683				
Additional Woodmont Commons Demand	567,683	Divide WW by 1.4 Max. Day Factor for Ave. Day of	405,488	GPD	
*Flow Estimates provided to PEU by Woodmont Commons					

Ground Level Storage, Transmission Main, and Booster Station Alternative - Net Present Value Analysis for PEU Expenses										Schedule A, Attachment 6		Page 1 of 2
Ground Level Water Tank and Booster Station Capital Cost Estimate												
"Plan B"												
Item	Quantity	Units	Unit Cost	Total	Replacement Cost	Inflation Values						
1,200 gpm High Flow Pumps	4	Each	\$ 35,000.00	\$ 140,000.00	\$ 70,000.00	Inflation Rate Labor and Bennefits: 3%						
250 gpm Domestic Pumps	2	Each	\$ 10,000.00	\$ 20,000.00	\$ 10,000.00	Inflation Rate Electric: 2%						
3 Phase Power	200	Feet	\$ 75.00	\$ 15,000.00		Inflation Rate Replacement/Maintenance: 2%						
Electrical System for new Pumps, Controls and Generator	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	\$ 125,000.00			Ground Level	Elevated			
Emergency Generator	1	Each	\$ 125,000.00	\$ 125,000.00		Term (yrs)	20	\$ 3,152,000.00	\$ 3,400,000.00			
Building Structure	1	Lump Sum	\$ 200,000.00	\$ 200,000.00		(interest Rate)	0.05					
Mechanical Fit Up	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	\$ 25,000.00			P&I	(\$252,924.63)	(\$272,824.80)		
Site Work	1	Lump Sum	\$ 250,000.00	\$ 250,000.00				P&I on PEU Share	(\$123,933.07)	(\$133,684.15)		
1,250,000 gallon Storage Tank	1	Lump Sum	\$ 1,000,000.00	\$ 1,000,000.00								
16 inch DI Transmission Main	6300	LF	\$ 125.00	\$ 787,500.00								
Engineering (Design & Resident)& Permitting	1	Lump Sum	\$ 164,500.00	\$ 164,500.00								
				Estimated Capital Cost:	\$ 3,152,000.00							
					\$ 230,000.00							
					\$ 335,066.57	Replacement Costs at 20 years						
						Year	Additional Electric Cost (adjusted for inflation)	Tank Re-coating Estimated Cost	Repair/Replacement			
						1	\$ 32,675.19	\$ 600,000.00	\$ 230,000.00			
Mountain Homes Booster Station Electric Consumption						2	\$ 33,328.69	\$ 612,000.00	\$ 234,600.00			
Repumping Costs Analysis						3	\$ 33,995.27	\$ 624,240.00	\$ 239,292.00			
Year	2017			HGL								
Month	Flow in 100 ccf			(feet msl.)								
January	13,300	Mountain Homes In		465								
February	16,400	Mountain Homes Out		620	Elevated Tank In/Out							
March	16,400	Ground Level Storage In/Out		490	Booster Station In							
April	13,800	Booster Station Out		610								
May	12,600			145	Added head at Mountain Homes to achieve Londonderry HGL							
June	16,600			130	Loss of head (feet) caused by the ground level booster station							
July	20,100			120	Required head (feet) added back in to restore/maintain 610 ft HGL							
August	19,300			83%	Additional pumping from the initial Mountain Homes lift							
September	19,000	50% less with 498 connection		\$ 32,675.19	Added Electric costs assuming the ground level booster is							
October	15,300				79%	efficient based on	85%	efficient				
November	14,700				pump and	93% efficient motor						
December	12,400											
Total Londonderry CCF in 2017	189,900											
Total Londonderry Gallons in 2017	142,064,190											
Average 2017 Londonderry Gallons per Day	389,217											
2017 Electric Cost	\$ 20,322.00											
Electric Cost per Gallon	\$ 0.000143048											
Added Woodmont Demand (gpd)	405,488											
Added Woodmont Demand (gpy)	148,003,120				2019 Estimated Elevated Tank Re-coating Cost: \$ 600,000.00							
Total Londonderry (Woodmont + Existing) (gallons)	290,067,310				Inflation/yr @ : 2% per year							
Estimated Electric Cost (per year)	\$ 41,493.55	Mountain Homes			20th Year Re-coating cost: \$ 874,086.70							

Ground Level Storage, Transmission Main, and Booster Station Alternative - Net Present Value Analysis for PEU Expenses																			
NPV Discount Rate	5 %																		
	0.05																		

Ground Level Storage, Transmission Main & Station	Year																				Net Present Value
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Projected Electric Costs	\$ 32,675.19	\$ 33,328.69	\$ 33,995.27	\$ 34,675.17	\$ 35,368.67	\$ 36,076.05	\$ 36,797.57	\$ 37,533.52	\$ 38,284.19	\$ 39,049.87	\$ 39,830.87	\$ 40,627.49	\$ 41,440.04	\$ 42,268.84	\$ 43,114.22	\$ 43,976.50	\$ 44,856.03	\$ 45,753.15	\$ 46,668.21	\$ 47,601.58	
Electric Costs	\$ (32,675.19)	\$ (33,328.69)	\$ (33,995.27)	\$ (34,675.17)	\$ (35,368.67)	\$ (36,076.05)	\$ (36,797.57)	\$ (37,533.52)	\$ (38,284.19)	\$ (39,049.87)	\$ (39,830.87)	\$ (40,627.49)	\$ (41,440.04)	\$ (42,268.84)	\$ (43,114.22)	\$ (43,976.50)	\$ (44,856.03)	\$ (45,753.15)	\$ (46,668.21)	\$ (47,601.58)	(\$479,564.13)
Fire Pump Replacement	\$ (500.00)	\$ (510.00)	\$ (520.20)	\$ (530.60)	\$ (541.22)	\$ (552.04)	\$ (563.08)	\$ (574.34)	\$ (585.83)	\$ (597.55)	\$ (609.50)	\$ (621.69)	\$ (634.12)	\$ (646.80)	\$ (659.74)	\$ (672.93)	\$ (686.39)	\$ (700.12)	\$ (714.12)	\$ (70,000.00)	(\$60,859.21)
Domestic Pump Replacement	\$ (300.00)	\$ (306.00)	\$ (312.12)	\$ (318.36)	\$ (324.73)	\$ (331.22)	\$ (337.85)	\$ (344.61)	\$ (351.50)	\$ (358.53)	\$ (365.70)	\$ (373.01)	\$ (380.47)	\$ (388.08)	\$ (395.84)	\$ (403.76)	\$ (411.84)	\$ (420.07)	\$ (428.47)	\$ (10,000.00)	(\$11,791.58)
Electric System Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (125,000.00)	(\$96,577.93)
Mechanical Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (25,000.00)	(\$19,315.59)
Tank Inspection	\$ -	\$ -	\$ -	\$ -	\$ (5,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (5,520.40)	\$ -	\$ -	\$ -	\$ -	\$ (6,094.97)	\$ -	\$ -	\$ -	\$ -	\$ (6,729.34)	(\$15,437.71)
Structure Maintenance (station)	\$ (3,000.00)	\$ (3,060.00)	\$ (3,121.20)	\$ (3,183.62)	\$ (3,247.30)	\$ (3,312.24)	\$ (3,378.49)	\$ (3,446.06)	\$ (3,514.98)	\$ (3,585.28)	\$ (3,656.98)	\$ (3,730.12)	\$ (3,804.73)	\$ (3,880.82)	\$ (3,958.44)	\$ (4,037.61)	\$ (4,118.36)	\$ (4,200.72)	\$ (4,284.74)	\$ (4,370.43)	(\$44,030.12)
Station Labor	\$ (9,610.29)	\$ (9,898.59)	\$ (10,195.55)	\$ (10,501.42)	\$ (10,816.46)	\$ (11,140.96)	\$ (11,475.18)	\$ (11,819.44)	\$ (12,174.02)	\$ (12,539.24)	\$ (12,915.42)	\$ (13,302.88)	\$ (13,701.97)	\$ (14,113.03)	\$ (14,536.42)	\$ (14,972.51)	\$ (15,421.69)	\$ (15,884.34)	\$ (16,360.87)	\$ (16,851.70)	(\$153,620.38)
PEU P&I Payments	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)	(\$123,933.07)
																				Total NPV	(\$2,425,676.64)
Elevated Storage Tank																					
Tank Inspection	\$ -	\$ -	\$ -	\$ -	\$ (5,000.00)	\$ -	\$ -	\$ -	\$ -	\$ (5,520.40)	\$ -	\$ -	\$ -	\$ -	\$ (6,094.97)	\$ -	\$ -	\$ -	\$ -	\$ -	(\$10,238.47)
Tank Recoating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (874,086.70)	(\$675,339.88)
Tank Inspection Checks	\$ (1,601.71)	\$ (1,649.77)	\$ (1,699.26)	\$ (1,750.24)	\$ (1,802.74)	\$ (1,856.83)	\$ (1,912.53)	\$ (1,969.91)	\$ (2,029.00)	\$ (2,089.87)	\$ (2,152.57)	\$ (2,217.15)	\$ (2,283.66)	\$ (2,352.17)	\$ (2,422.74)	\$ (2,495.42)	\$ (2,570.28)	\$ (2,647.39)	\$ (2,726.81)	\$ (2,808.62)	(\$25,603.40)
PEU P&I Payment	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)	(\$133,684.15)
																				Total NPV	(\$2,377,181.74)
																				NPV Differential	\$48,494.90
																				Per Year	\$2,424.75
Replacement Inflation Rate:	2%																				
Ground Level Tank and Booster Labor																					
	3 hours per week																				
\$ 61.60	\$/hour with truck																				
\$ 184.81	\$/wk																				
\$ 9,610.29	\$ (9,610.29)	\$ (9,898.59)	\$ (10,195.55)	\$ (10,501.42)	\$ (10,816.46)	\$ (11,140.96)	\$ (11,475.18)	\$ (11,819.44)	\$ (12,174.02)	\$ (12,539.24)	\$ (12,915.42)	\$ (13,302.88)	\$ (13,701.97)	\$ (14,113.03)	\$ (14,536.42)	\$ (14,972.51)	\$ (15,421.69)	\$ (15,884.34)	\$ (16,360.87)	\$ (16,851.70)	(\$153,620.38)
Elevated Tank Labor																					
	0.5 hours per week																				
\$ 61.60	\$/hour																				
\$ 30.80	\$/wk																				
\$ 1,601.71	\$ (1,601.71)	\$ (1,649.77)	\$ (1,699.26)	\$ (1,750.24)	\$ (1,802.74)	\$ (1,856.83)	\$ (1,912.53)	\$ (1,969.91)	\$ (2,029.00)	\$ (2,089.87)	\$ (2,152.57)	\$ (2,217.15)	\$ (2,283.66)	\$ (2,352.17)	\$ (2,422.74)	\$ (2,495.42)	\$ (2,570.28)	\$ (2,647.39)	\$ (2,726.81)	\$ (2,808.62)	(\$25,603.40)
Operating costs are adjusted by	3% per year to account for inflationary pressure																				

SPECIAL CONTRACT – WATER
CONTRACT NO. NHPUC 2018-__
PENNICHUCK EAST UTILITY, INC.

WITH

PILLSBURY REALTY DEVELOPMENT, LLC
FOR
WOODMONT COMMONS

Date of Execution: _____

Effective Date: _____

Date of Termination: _____

Authorized in Docket No. DW _____

NHPUC Order No. _____

Dated: _____

SPECIAL CONTRACT FOR WATER SUPPLY SERVICE

This special contract for water supply service (“Agreement”) is made and entered into this _____ day of _____, ~~2019~~ 2020 by and between Pennichuck East Utility, Inc. (“PEU”), a regulated public utility pursuant to RSA 362:2, with an address of 25 Manchester Street, Merrimack, New Hampshire 03054, and Pillsbury Realty Development, LLC (“Pillsbury”), a registered New Hampshire business and principal developer of the Woodmont Commons Planned Unit Development (“Woodmont Commons”) (together, “Parties”).

RECITALS

WHEREAS, PEU was authorized by the N.H. Public Utilities Commission (“NHPUC”) to provide water service in portions of the Town of Londonderry. See, Docket No. DE 86-230, Order No. 18,691, *Southern New Hampshire Water Company, Inc.*, (May 29, 1987) (approving transfer of franchise to Pennichuck Corporation), Docket No. DE 86-230, Order No. 18,760, *Southern New Hampshire Water Company, Inc.*, (July 14, 1987) (approving Southern’s request to provide service to undisputed area of Londonderry and conditionally approving franchise to disputed area), and Docket No. DE 86-230, Order No. 18,807, *Southern New Hampshire Water Company, Inc.*, (Sept. 1, 1987) (rescinding awarding disputed franchise area and ordering that disputed area is not awarded to either Southern or Manchester Water Works).

WHEREAS, Pillsbury has received approval from the Town of Londonderry to construct the Woodmont Commons on approximately 603 acres of land near Rt. 102 and Interstate 93 at Exit 4 and proposed Exit 4A. The \$1 billion development is being constructed over the course of several phases and will include new mixed-use buildings, homes, offices, a hotel, retail space, medical and professional offices, and agricultural areas.

WHEREAS, the Woodmont Commons development is located within PEU’s authorized franchise area in the Town of Londonderry.

WHEREAS, to meet the future water service needs of PEU and the commercial and residential customers within Woodmont Commons, and, in particular, the Woodmont Commons’ fire protection needs, and to satisfy the requirements of the New Hampshire Department of Environmental Services (“NHDES”), PEU is upgrading its system and is constructing a 1.25 million gallon ground level precast prestressed concrete water storage tank, approximately 6,300 linear feet of 16 inch diameter water transmission main, and a 3,500 gallon per minute water booster pumping station. ~~n elevated composite-style (concrete pedestal and steel tank) water storage tank (“Water Storage Tank”) with a capacity of 1.1 million gallons. The 1.25 million gallon water tank will be located on land owned by on PEU-owned land PEU near adjacent to~~ Woodmont Commons. The transmission main will be on land owned by PEU, public rights of way/roads, and within easements to PEU on land owned/controlled by Pillsbury. The booster station will be constructed within an easement owned/controlled by Pillsbury. The water storage tank, the transmission main, and the water booster station constitute “the Project”. The construction budget for the ~~Water Storage Tank~~ Project is approximately \$~~3.152~~ 2.835 million dollars.

NOW, THEREFORE, in consideration of the mutual agreements and promises set forth herein and other good and valuable consideration, the receipt and sufficient of which are hereby acknowledged, the Parties agree as follows:

CAPITAL CONTRIBUTIONS

1. Pillsbury agrees to provide a proportionate capital contribution (“Capital Contribution”) to defray the cost of PEU’s construction of the ~~Water Storage Tank Project~~.
 2. In consideration of Pillsbury’s Capital Contribution, PEU agrees to accelerate its construction of the ~~Project Water Storage Tank and~~ to enlarge the tank size ~~and the capacity of the booster station~~ to provide potable water and fire protection service with sufficient capacity to supply water to the entirety of Woodmont Commons.
 3. Construction of the ~~Water Storage Tank Project~~ is planned to provide an in-service date of ~~July 31, 2021~~ October 1, 2020 (“Operational Date”) that is anticipated to coincide with the water and fire protection service needs of the Woodmont Commons Development and otherwise supplement existing capacity available to Woodmont Commons and others within the service area.
 4. PEU and Pillsbury agree that Pillsbury’s payment of the Capital Contribution will be periodic and that the payments will be based on the bid price of the successful bidder selected by PEU through its competitive bidding process.
 - a. Pillsbury agrees to make the periodic payments according to Schedule A, Anticipated Project Phases and Fee Schedule. PEU and Pillsbury acknowledge that time is of the essence with respect to PEU’s construction of the ~~Project Water Storage Tank~~ and Pillsbury’s payments to PEU.
 - b. Pursuant to Schedule A, Pillsbury agrees to pay PEU fifty-one (51%) percent of the estimated fees associated with the design, permitting, bidding, construction, and construction administration of the ~~Project Water Storage Tank project~~. Pillsbury agrees to pay PEU the Pillsbury share within ten (10) days from the date PEU notifies Pillsbury that PEU intends to commence each Anticipated Project Phase.
 - c. Pursuant to Schedule A, Pillsbury agrees to pay PEU fifty-one (51%) percent of the gross-up tax liability for Pillsbury’s Contributions in Aid of Construction (“CIAC”) triggered by the ~~Water Storage Tank p~~Project based upon the following formula:

Tax Cost = ((CIAC - [CIAC*(1/Tax Life)*.5]) / (1-Current Effective Tax Rate)) – CIAC

With a Current Effective Rate of 27.08% (comprised of 21% Federal and 6.08% net State rate, after consideration for Federal deductibility for State taxes), the gross-up percentage is 34.39386%.
- Pillsbury agrees to pay PEU the Pillsbury share of the CIAC tax within ten (10) days from the date PEU demands payment of such tax.
- d. In the event the estimated fees or taxes depicted on Schedule A differ from the actual fees or taxes, PEU agrees to inform Pillsbury of the updated fee or tax at least thirty (30) days prior to Pillsbury’s payment of the Pillsbury share to PEU.

5. Notwithstanding the Operational Date set forth above, the terms of this Agreement shall not take effect or bind either party until any necessary approvals of the NHDES and the New Hampshire Public Utilities Commission (“NHPUC”), as well as the Company’s Board of Directors and Shareholder, have been obtained. The final order of the NHPUC approving the Agreement shall constitute the approval date (“Approval Date”) of the Agreement.

WATER SERVICE

6. PEU agrees to operate the Water Storage Tank to the benefit of Woodmont Commons and PEU’s other customers in accordance with all applicable laws and regulations.

7. Pillsbury and PEU agree that service provided by PEU to customers within the Woodmont Commons development shall be according to the rates, fares, charges, and terms of service applied to other customers and as contained in PEU’s approved tariff, as amended from time to time, on file with the NHPUC and according to all applicable laws and regulations, including, NHPUC Chapter Puc 600, *Rules for Water Service* and Chapter Puc 1200, *Uniform Administration of Utility Customer Relations*.

REFUNDS

8. In the event that the Project Water Storage Tank project costs come in lower than the total of the Anticipated Project Phases estimates such that there is an overpayment by Pillsbury, PEU shall refund Pillsbury the appropriate percentage of unused funds no later than forty-five (45) days after the Operational Date.

9. PEU shall maintain financial and operating records of the construction and use of the Project Water Storage Tank and these records shall be available for inspection by Pillsbury or its agent at the office of PEU during regular business hours.

CONSTRUCTION OF THE PROJECT TANK

10. PEU agrees to apply for and obtain all required permits and government approvals, including but not limited to, those required by the NHPUC and the NHDES, in addition to required State and local permits.

11. PEU agrees to prepare all plans, specifications, and other design documents necessary for the tank project, and to make such documents available to Pillsbury for review and comment.

12. PEU agrees to issue an invitation to bidders for the tank portion of the pProject to pre-qualified contractors acceptable to PEU, to secure bids for the required construction services through a competitive bidding method, and to award the contract(s) for construction to the lowest, responsible and responsive bidder. The transmission main and booster station will be publicly bid and each portion will be awarded to the lowest responsible bidder qualified to successfully complete the work.

13. PEU agrees to supervise, administer, coordinate, and oversee construction of the tank project.

LAWS AND REGULATORY APPROVAL

14. GOVERNING LAW AND VENUE

This Agreement shall be governed, construed, and interpreted by, and in accordance with, the laws of the State of New Hampshire. Any actions concerning enforcement of this Agreement or in any way relating to the subject matter of this Agreement shall be adjudicated by the NHPUC, or its successor for resolution of the dispute. Each party to this Agreement expressly agrees to submit to such jurisdiction and venue as required by the NHPUC or its successor.

ADDITIONAL PROVISIONS

15. AMENDMENT

No waiver or modification of this Agreement or of any covenant, condition, or limitation contained herein shall be valid unless it is in writing and of a subsequent date, duly signed by the Parties hereto, and subject to any required approval of the NHPUC. No evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the Parties hereto arising out of or affecting this Agreement, or the rights or obligations of the parties hereunder, unless such waiver or modification is in writing and duly signed by the Parties.

16. WAIVER

Failure of either party to exercise any right under this Agreement shall not be deemed a waiver of such party to exercise at some future time said rights or another right it may have hereunder.

17. DURATION AND TERMINATION

This Agreement shall be exclusive and binding on the Parties from the Approval Date until the Operational Date. Once it is signed and in effect, this Agreement shall supersede and replace all prior agreements between the Parties with respect to the subject matter hereof. The Parties may terminate this Agreement by mutual agreement or as otherwise provided in this Agreement.

18. BINDING EFFECT

The terms and provisions of this Agreement, and the benefits and burdens associated therewith, shall inure to the Parties to this Agreement and their assigns, grantees, and successors in interest but neither this Agreement nor any of the rights, interests, or obligations hereunder shall be assigned by either party hereto without the prior written consent of the other party and the approval of the NHPUC.

19. NOTICES AND PAYMENTS

All notices, requests, demands, and other communications given pursuant to the Agreement shall be in writing and shall be deemed to have been given if they are delivered by hand or by a nationally recognized overnight courier or mailed by certified or registered mail with postage prepaid to either party as the case may be, at the following address or to such other address as the receiving party may have given written notice to the other party:

Notices to Pennichuck East Utility, Inc. shall be delivered to the following address:

Donald L. Ware, Chief Operating Officer
Pennichuck East Utility, Inc.
25 Manchester Street
Merrimack, NH 03054

Notices to Pillsbury Realty Development, LLC shall be delivered to the following address:

Michael L. Kettenbach, Member
Pillsbury Realty Development, LLC
100 Ferry Street
Hudson, NH 03051

With a copy to:

Ari B. Pollack, Esq.
Gallagher, Callahan & Gartrell, P.C.
214 North Main Street
Concord, NH 03301

All payments for Capital Contributions required by this Agreement shall be made by cashier's check and be made payable to "Pennichuck East Utility, Inc."

20. COOPERATION TO COMPLETE TRANSACTION

PEU and Pillsbury each covenant and agree to execute and deliver all such other documents and instruments and take any action that may be reasonably necessary or advisable to evidence or effectuate the consummation of the transactions contemplated hereby, assist, and facilitate the provision of the services to be provided herein, and otherwise to carry out the intent of the Parties herein.

21. HEADINGS

The headings in each section of this Agreement are for the convenience of reference only and do not form a part hereof and in no way modify or shall be used to interpret or construe the meaning of this Agreement.

22. COMPLIANCE WITH THE LAW

Each party hereto agrees that it is responsible at its own expense for compliance with all laws and agrees to indemnify, defend, and save harmless the other party from any claim by a third-party arising out of or related to non-compliance with law.

23. COUNTERPARTS

This Agreement may be signed in several counterparts, each of which shall be deemed an original and such counterparts shall constitute one and the same instrument.

24. SEVERABILITY

If any term or provision herein shall be judicially determined to be void or of no effect, such determination shall not affect the validity of the remaining terms and provisions.

25. AUTHORITY

Each party represents that it has undertaken all actions necessary for corporate approval of this Agreement, and that the person signing the Agreement has the authority to bind the respective party.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their authorized representatives:

PILLSBURY REALTY DEVELOPMENT, LLC

Witness

By: _____

Name: _____

Title: _____

PENNICHUCK EAST UTILITY, INC.

Witness

By: _____

Name: _____

Title: _____

Schedule A: Anticipated Project Phases and Fee Schedule

Phase	Date Range		Estimated Cost	Pillsbury Share (51% of Estimated Cost)
Design	May 2018	August 2018	\$60,000	\$30,506.00
Permitting (Town)	August 2018	October 2018	\$25,000	\$12,711.00
Bidding	November 2018	January 2019	\$5,000	\$2,542.00
Construction	March 2019	September 2020	\$2,700,000.00	\$1,372,783.00
Construction Admin.	March 2019	September 2020	\$45,000	\$22,880.00
(Rounded) Total:			\$2,835,000.00	\$1,441,422.00

	Estimated Cost [†]	Pillsbury's Estimated Share (51% of Estimated Cost)
CIAC Tax Liability	\$495,760	\$252,838

Schedule A - Attachment 2					
Londonderry Storage Tank, Transmission Main, & Booster Station					
Estimated Cost as of November 21, 2019					
Item	Quantity	Units	Unit Cost	Total	
1,200 gpm High Flow Pumps	4	Each	\$ 35,000.00	\$ 140,000.00	
250 gpm Domestic Pumps	2	Each	\$ 10,000.00	\$ 20,000.00	
3 Phase Power	200	Feet	\$ 75.00	\$ 15,000.00	
Electrical System for new Pumps, Controls and Generator	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	
Emergency Generator	1	Each	\$ 125,000.00	\$ 125,000.00	
Building Structure	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	
Mechanical Fit Up	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	
Site Work	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	
1,250,000 gallon Storage Tank	1	Lump Sum	\$ 1,000,000.00	\$ 1,000,000.00	
16 inch DI Transmission Main	6300	LF	\$ 125.00	\$ 787,500.00	
Estimated Construction Capital Cost:				\$ 2,987,500.00	
Phase	Date Range		Estimated Cost	Pillsbury Share (51% of Total Cost)	PEU Share (49% of Total Cost)
Design	December 2019	March 2020	\$ 59,750.00	\$ 30,379.16	\$ 29,370.84
Permitting (Town)	February 2020	April 2020	\$ 30,000.00	\$ 15,253.13	\$ 14,746.87
Bidding (Three Contracts: Tank, Pipeline, & Station)	April 2020	July 2020	\$ 15,000.00	\$ 7,626.57	\$ 7,373.43
Construction	July 2020	July 2021	\$ 2,987,500.00	\$ 1,518,958.01	\$ 1,468,541.99
Construction Administration	June 2020	December 2020	\$ 59,750.00	\$ 30,379.16	\$ 29,370.84
Total Project Budget Estimate:			\$ 3,152,000.00	\$ 1,602,596.03	\$ 1,549,403.97
CIAC Estimates and Apportionment (see footnote 1)			Amount Subject to CIAC:	\$ 1,602,596.03	
			CIAC Tax Rate:	34.39%	
			CIAC Tax Amount:	\$ 551,132.78	
			PEU CIAC Share at 49%:	\$ 270,055.06	
			Pillsbury CIAC Share at 51%:	\$ 281,077.72	
Notes:					
Schedule assumes timely regulatory approvals and permits and the executed PEU Pillsbury agreements.					
Easements from Pillsbury will be necessary for the Transmission Main and the Booster Station site.					

[†] The CIAC tax in this Schedule is an estimate. The final CIAC tax liability, and proportionate shares of the tax liability, will be calculated based on the actual cost of the CIAC asset.

SPECIAL CONTRACT – WATER
CONTRACT NO. NHPUC 2018-__
PENNICHUCK EAST UTILITY, INC.

WITH

PILLSBURY REALTY DEVELOPMENT, LLC
FOR
WOODMONT COMMONS

Date of Execution: _____

Effective Date: _____

Date of Termination: _____

Authorized in Docket No. DW _____

NHPUC Order No. _____

Dated: _____

SPECIAL CONTRACT FOR WATER SUPPLY SERVICE

This special contract for water supply service (“Agreement”) is made and entered into this _____ day of _____, 2020 by and between Pennichuck East Utility, Inc. (“PEU”), a regulated public utility pursuant to RSA 362:2, with an address of 25 Manchester Street, Merrimack, New Hampshire 03054, and Pillsbury Realty Development, LLC (“Pillsbury”), a registered New Hampshire business and principal developer of the Woodmont Commons Planned Unit Development (“Woodmont Commons”) (together, “Parties”).

RECITALS

WHEREAS, PEU was authorized by the N.H. Public Utilities Commission (“NHPUC”) to provide water service in portions of the Town of Londonderry. See, Docket No. DE 86-230, Order No. 18,691, *Southern New Hampshire Water Company, Inc.*, (May 29, 1987) (approving transfer of franchise to Pennichuck Corporation), Docket No. DE 86-230, Order No. 18,760, *Southern New Hampshire Water Company, Inc.*, (July 14, 1987) (approving Southern’s request to provide service to undisputed area of Londonderry and conditionally approving franchise to disputed area), and Docket No. DE 86-230, Order No. 18,807, *Southern New Hampshire Water Company, Inc.*, (Sept. 1, 1987) (rescinding awarding disputed franchise area and ordering that disputed area is not awarded to either Southern or Manchester Water Works).

WHEREAS, Pillsbury has received approval from the Town of Londonderry to construct the Woodmont Commons on approximately 603 acres of land near Rt. 102 and Interstate 93 at Exit 4 and proposed Exit 4A. The \$1 billion development is being constructed over the course of several phases and will include new mixed-use buildings, homes, offices, a hotel, retail space, medical and professional offices, and agricultural areas.

WHEREAS, the Woodmont Commons development is located within PEU’s authorized franchise area in the Town of Londonderry.

WHEREAS, to meet the future water service needs of PEU and the commercial and residential customers within Woodmont Commons, and, in particular, the Woodmont Commons’ fire protection needs, and to satisfy the requirements of the New Hampshire Department of Environmental Services (“NHDES”), PEU is upgrading its system and is constructing a 1.25 million gallon ground level (less than 35 feet high) precast prestressed concrete water storage tank, approximately 6,300 linear feet of 16-inch diameter water transmission main, and a 3,500 gallon per minute water booster pumping station. The 1.25 million gallon water tank will be located on land owned by PEU near Woodmont Commons. The transmission main will be on land owned by PEU, public rights of way/roads, and within easements to PEU on land owned/controlled by Pillsbury. The booster station will be constructed within an easement owned/controlled by Pillsbury. The water storage tank, the transmission main, and the water booster station constitute “the Project”. The construction budget for the Project is approximately \$3.152 million dollars.

NOW, THEREFORE, in consideration of the mutual agreements and promises set forth herein and other good and valuable consideration, the receipt and sufficient of which are hereby acknowledged, the Parties agree as follows:

CAPITAL CONTRIBUTIONS

1. Pillsbury agrees to provide a proportionate capital contribution (“Capital Contribution”) to defray the cost of PEU’s construction of the Project.
 2. In consideration of Pillsbury’s Capital Contribution, PEU agrees to accelerate its construction of the Project to enlarge the tank size and the capacity of the booster station to provide potable water and fire protection service with sufficient capacity to supply water to the entirety of Woodmont Commons.
 3. Construction of the Project is planned to provide an in-service date of July 31, 2021 (“Operational Date”) that is anticipated to coincide with the water and fire protection service needs of the Woodmont Commons Development and otherwise supplement existing capacity available to Woodmont Commons and others within the service area.
 4. PEU and Pillsbury agree that Pillsbury’s payment of the Capital Contribution will be periodic and that the payments will be based on the bid price of the successful bidder selected by PEU through its competitive bidding process.
 - a. Pillsbury agrees to make the periodic payments according to Schedule A, Anticipated Project Phases and Fee Schedule. PEU and Pillsbury acknowledge that time is of the essence with respect to PEU’s construction of the Project and Pillsbury’s payments to PEU.
 - b. Pursuant to Schedule A, Pillsbury agrees to pay PEU fifty-one (51%) percent of the estimated fees associated with the design, permitting, bidding, construction, and construction administration of the Project. Pillsbury agrees to pay PEU the Pillsbury share within ten (10) days from the date PEU notifies Pillsbury that PEU intends to commence each Anticipated Project Phase.
 - c. Pursuant to Schedule A, Pillsbury agrees to pay PEU fifty-one (51%) percent of the gross-up tax liability for Pillsbury’s Contributions in Aid of Construction (“CIAC”) triggered by the Project based upon the following formula:

$$\text{Tax Cost} = ((\text{CIAC} - [\text{CIAC} * (1/\text{Tax Life}) * .5]) / (1 - \text{Current Effective Tax Rate})) - \text{CIAC}$$

With a Current Effective Rate of 27.08% (comprised of 21% Federal and 6.08% net State rate, after consideration for Federal deductibility for State taxes), the gross-up percentage is 34.39386%.
- Pillsbury agrees to pay PEU the Pillsbury share of the CIAC tax within ten (10) days from the date PEU demands payment of such tax.
- d. In the event the estimated fees or taxes depicted on Schedule A differ from the actual fees or taxes, PEU agrees to inform Pillsbury of the updated fee or tax at least thirty (30) days prior to Pillsbury’s payment of the Pillsbury share to PEU.
5. Notwithstanding the Operational Date set forth above, the terms of this Agreement shall not take effect or bind either party until any necessary approvals of the NHDES and the New

Hampshire Public Utilities Commission (“NHPUC”), as well as the Company’s Board of Directors and Shareholder, have been obtained. The final order of the NHPUC approving the Agreement shall constitute the approval date (“Approval Date”) of the Agreement.

WATER SERVICE

6. PEU agrees to operate the Water Storage Tank to the benefit of Woodmont Commons and PEU’s other customers in accordance with all applicable laws and regulations.

7. Pillsbury and PEU agree that service provided by PEU to customers within the Woodmont Commons development shall be according to the rates, fares, charges, and terms of service applied to other customers and as contained in PEU’s approved tariff, as amended from time to time, on file with the NHPUC and according to all applicable laws and regulations, including, NHPUC Chapter Puc 600, *Rules for Water Service* and Chapter Puc 1200, *Uniform Administration of Utility Customer Relations*.

REFUNDS

8. In the event that the Project costs come in lower than the total of the Anticipated Project Phases estimates such that there is an overpayment by Pillsbury, PEU shall refund Pillsbury the appropriate percentage of unused funds no later than forty-five (45) days after the Operational Date.

9. PEU shall maintain financial and operating records of the construction and use of the Project and these records shall be available for inspection by Pillsbury or its agent at the office of PEU during regular business hours.

CONSTRUCTION OF THE PROJECT

10. PEU agrees to apply for and obtain all required permits and government approvals, including but not limited to, those required by the NHPUC and the NHDES, in addition to required State and local permits.

11. PEU agrees to prepare all plans, specifications, and other design documents necessary for the tank project, and to make such documents available to Pillsbury for review and comment.

12. PEU agrees to issue an invitation to bidders for the tank portion of the Project to pre-qualified contractors acceptable to PEU, to secure bids for the required construction through a competitive bidding method, and to award the contract(s) for construction to the lowest, responsible and responsive bidder. The transmission main and booster station will be publically bid and each portion will be awarded to the lowest responsible bidder qualified to successfully complete the work.

13. PEU agrees to supervise, administer, coordinate, and oversee construction of the tank project.

LAWS AND REGULATORY APPROVAL

14. GOVERNING LAW AND VENUE

This Agreement shall be governed, construed, and interpreted by, and in accordance with, the laws of the State of New Hampshire. Any actions concerning enforcement of this Agreement or in any way relating to the subject matter of this Agreement shall be adjudicated by the NHPUC, or its successor for resolution of the dispute. Each party to this Agreement expressly agrees to submit to such jurisdiction and venue as required by the NHPUC or its successor.

ADDITIONAL PROVISIONS

15. AMENDMENT

No waiver or modification of this Agreement or of any covenant, condition, or limitation contained herein shall be valid unless it is in writing and of a subsequent date, duly signed by the Parties hereto, and subject to any required approval of the NHPUC. No evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the Parties hereto arising out of or affecting this Agreement, or the rights or obligations of the parties hereunder, unless such waiver or modification is in writing and duly signed by the Parties.

16. WAIVER

Failure of either party to exercise any right under this Agreement shall not be deemed a waiver of such party to exercise at some future time said rights or another right it may have hereunder.

17. DURATION AND TERMINATION

This Agreement shall be exclusive and binding on the Parties from the Approval Date until the Operational Date. Once it is signed and in effect, this Agreement shall supersede and replace all prior agreements between the Parties with respect to the subject matter hereof. The Parties may terminate this Agreement by mutual agreement or as otherwise provided in this Agreement.

18. BINDING EFFECT

The terms and provisions of this Agreement, and the benefits and burdens associated therewith, shall inure to the Parties to this Agreement and their assigns, grantees, and successors in interest but neither this Agreement nor any of the rights, interests, or obligations hereunder shall be assigned by either party hereto without the prior written consent of the other party and the approval of the NHPUC.

19. NOTICES AND PAYMENTS

All notices, requests, demands, and other communications given pursuant to the Agreement shall be in writing and shall be deemed to have been given if they are delivered by hand or by a nationally recognized overnight courier or mailed by certified or registered mail with postage prepaid to either party as the case may be, at the following address or to such other address as the receiving party may have given written notice to the other party:

Notices to Pennichuck East Utility, Inc. shall be delivered to the following address:

Donald L. Ware, Chief Operating Officer
Pennichuck East Utility, Inc.
25 Manchester Street
Merrimack, NH 03054

Notices to Pillsbury Realty Development, LLC shall be delivered to the following address:

Michael L. Kettenbach, Member
Pillsbury Realty Development, LLC
100 Ferry Street
Hudson, NH 03051

With a copy to:

Ari B. Pollack, Esq.
Gallagher, Callahan & Gartrell, P.C.
214 North Main Street
Concord, NH 03301

All payments for Capital Contributions required by this Agreement shall be made by cashier's check and be made payable to "Pennichuck East Utility, Inc."

20. COOPERATION TO COMPLETE TRANSACTION

PEU and Pillsbury each covenant and agree to execute and deliver all such other documents and instruments and take any action that may be reasonably necessary or advisable to evidence or effectuate the consummation of the transactions contemplated hereby, assist, and facilitate the provision of the services to be provided herein, and otherwise to carry out the intent of the Parties herein.

21. HEADINGS

The headings in each section of this Agreement are for the convenience of reference only and do not form a part hereof and in no way modify or shall be used to interpret or construe the meaning of this Agreement.

22. COMPLIANCE WITH THE LAW

Each party hereto agrees that it is responsible at its own expense for compliance with all laws and agrees to indemnify, defend, and save harmless the other party from any claim by a third-party arising out of or related to non-compliance with law.

23. COUNTERPARTS

This Agreement may be signed in several counterparts, each of which shall be deemed an original and such counterparts shall constitute one and the same instrument.

24. SEVERABILITY

If any term or provision herein shall be judicially determined to be void or of no effect, such determination shall not affect the validity of the remaining terms and provisions.

25. AUTHORITY

Each party represents that it has undertaken all actions necessary for corporate approval of this Agreement, and that the person signing the Agreement has the authority to bind the respective party.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their authorized representatives:

PILLSBURY REALTY DEVELOPMENT, LLC

Witness

By: _____

Name: _____

Title: _____

PENNICHUCK EAST UTILITY, INC.

Witness

By: _____

Name: _____

Title: _____

Schedule A: Anticipated Project Phases and Fee Schedule

Schedule A - Attachment 2					
Londonderry Storage Tank, Transmission Main, & Booster Station					
Estimated Cost as of November 21, 2019					
Item	Quantity	Units	Unit Cost	Total	
1,200 gpm High Flow Pumps	4	Each	\$ 35,000.00	\$ 140,000.00	
250 gpm Domestic Pumps	2	Each	\$ 10,000.00	\$ 20,000.00	
3 Phase Power	200	Feet	\$ 75.00	\$ 15,000.00	
Electrical System for new Pumps, Controls and Generator	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	
Emergency Generator	1	Each	\$ 125,000.00	\$ 125,000.00	
Building Structure	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	
Mechanical Fit Up	1	Lump Sum	\$ 200,000.00	\$ 200,000.00	
Site Work	1	Lump Sum	\$ 250,000.00	\$ 250,000.00	
1,250,000 gallon Storage Tank	1	Lump Sum	\$ 1,000,000.00	\$ 1,000,000.00	
16 inch DI Transmission Main	6300	LF	\$ 125.00	\$ 787,500.00	
			Estimated Construction Capital Cost: \$ 2,987,500.00		
Phase	Date Range		Estimated Cost	Pillsbury Share (51% of Total Cost)	PEU Share (49% of Total Cost)
Design	December 2019	March 2020	\$ 59,750.00	\$ 30,379.16	\$ 29,370.84
Permitting (Town)	February 2020	April 2020	\$ 30,000.00	\$ 15,253.13	\$ 14,746.87
Bidding (Three Contracts: Tank, Pipeline, & Station)	April 2020	July 2020	\$ 15,000.00	\$ 7,626.57	\$ 7,373.43
Construction	July 2020	July 2021	\$ 2,987,500.00	\$ 1,518,958.01	\$ 1,468,541.99
Construction Administration	June 2020	December 2020	\$ 59,750.00	\$ 30,379.16	\$ 29,370.84
Total Project Budget Estimate:			\$ 3,152,000.00	\$ 1,602,596.03	\$ 1,549,403.97
CIAC Estimates and Apportionment (see footnote 1)			Amount Subject to CIAC:	\$ 1,602,596.03	
			CIAC Tax Rate:	34.39%	
			CIAC Tax Amount:	\$ 551,132.78	
			PEU CIAC Share at 49%:	\$ 270,055.06	
			Pillsbury CIAC Share at 51%:	\$ 281,077.72	
Notes:					
Schedule assumes timely regulatory approvals and permits and the executed PEU Pillsbury agreements.					
Easements from Pillsbury will be necessary for the Transmission Main and the Booster Station site.					