Appendix E
Pump Station
Asset Management Database

Appendix E
Pump Station Asset Management Database
Town of Enfield, New Hampshire
Prepared on November 7, 2019

Color Index	Color Code General Assessment Rating
	Major Issues/Inoperable
	Significant Issues/Concerns
	Minor Issues/Concerns
	No Issues/Concerns

Area ID	Pump Station	Location	Component	Year Built	Last Upgrade	In Operation	Equipment Operable	Equipment Replaced	Condition Assessment	Observations and Comments	Asset Criticality & Scoring: Age	Energy Efficiency / Return on Investment	Function / Impact on Downstream Sewers	Operations & Maintenance	Access	Safety	Percent of System Served	Asset Criticality Score
											1-5	1-5	1-10	1-5	1-5	1-5	1-10	7-45
LV	Lakeview	Wetwell	Pump #1	2016	N/A	Yes	Yes	N/A		25-HP submersible pump. Designed for 260 gpm at 111 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	1.00	2.00	10.00	2.00	2.00	2.00	1.00	20.00
LV	Lakeview	Wetwell	Pump #2	2016	N/A	Yes	Yes	N/A		25-HP submersible pump. Designed for 260 gpm at 111 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	1.00	2.00	10.00	2.00	2.00	2.00	1.00	20.00
LV	Lakeview	Wetwell	Influent Trash Basket	2016	N/A	Yes	Yes	N/A		Stainless steel straining basket with 2-inch clear openings.	1.00	1.00	8.00	2.00	2.00	2.00	1.00	17.00
LV	Lakeview	Wetwell	Level Sensing Equipment	2016	N/A	Yes	Yes	N/A		Radar level sensor with backup high/low alarm floats	1.00	1.00	10.00	2.00	3.00	2.00	1.00	20.00
LV	Lakeview	Wetwell	Pump Discharge Piping	2016	N/A	Yes	Yes	N/A		4-inch DI discharge piping	1.00	1.00	10.00	2.00	3.00	2.00	1.00	20.00
LV	Lakeview	Wetwell	Exhaust Fan	2016	N/A	Yes	Yes	N/A		Belt-drive centrifugal exhaust fan with 12-inch SS ductwork	1.00	2.00	1.00	2.00	1.00	2.00	1.00	10.00
LV	Lakeview	Wetwell	Access Hatches	2016	N/A	Yes	Yes	N/A		Two stainless steel access hatches. There is no integral fall-protection installed.	1.00	1.00	1.00	1.00	1.00	4.00	1.00	10.00
LV	Lakeview	Wetwell	Concrete Structure	2016	N/A	Yes	Yes	N/A			1.00	1.00	10.00	2.00	2.00	4.00	1.00	21.00
LV	Lakeview	Valve Vault	Sump Pump	2016	N/A	Yes	Yes	N/A			1.00	2.00	1.00	2.00	3.00	2.00	1.00	12.00
LV	Lakeview	Valve Vault	Pump Discharge Piping	2016	N/A	Yes	Yes	N/A		4-inch DI discharge piping	1.00	1.00	10.00	2.00	2.00	2.00	1.00	19.00
LV	Lakeview	Valve Vault	Pump Discharge Valves	2016	N/A	Yes	Yes	N/A		Two 4-inch DI check valves and four 4-inch plug valves.	1.00	1.00	10.00	2.00	2.00	2.00	1.00	19.00
LV	Lakeview	Valve Vault	Flow Meter	2016	N/A	Yes	Yes	N/A		4-inch magnetic flow meter	1.00	1.00	1.00	2.00	2.00	2.00	1.00	10.00
LV	Lakeview	Valve Vault	Access Hatch	2016	N/A	Yes	Yes	N/A		Stainless steel access hatch. There is no integral fall-protection installed.	1.00	1.00	1.00	1.00	1.00	4.00	1.00	10.00
LV	Lakeview	Valve Vault	Concrete Structure	2016	N/A	Yes	Yes	N/A			1.00	1.00	5.00	2.00	2.00	4.00	1.00	16.00
LV	Lakeview	Electrical/Control Building	Chemical Feed System	2016	N/A	Yes	Yes	N/A		Peristaltic metering pump and 50-gallon drum of sodium permanganate on spill-containment pallet	1.00	2.00	1.00	2.00	1.00	3.00	1.00	11.00
LV	Lakeview	Electrical/Control Building	Backup Generator	2016	N/A	Yes	Yes	N/A		60 kW propane generator	1.00	1.00	10.00	2.00	1.00	2.00	1.00	18.00
LV	Lakeview	Electrical/Control Building	Building Architectural	2016	N/A	Yes	Yes	N/A			1.00	2.00	1.00	1.00	1.00	1.00	1.00	8.00
LV	Lakeview	Electrical/Control Building	Building HVAC	2016	N/A	Yes	Yes	N/A			1.00	2.00	1.00	1.00	1.00	1.00	1.00	8.00

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Color Index	Color Code General Assessment Rating
	Major Issues/Inoperable
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	Minor Issues/Concerns
	No Issues/Concerns

Area ID	Pump Station	Location	Component	Year Built	Last Upgrade	In Operation	Equipment Operable	Equipment Replaced	Condition Assessment	Observations and Comments	Asset Criticality & Scoring: Age	Energy Efficiency / Return on Investment	Function / Impact on Downstream Sewers	Operations & Maintenance	Access	Safety	Percent of System Served	Asset Criticality Score
											1-5	1-5	1-10	1-5	1-5	1-5	1-10	7-45
LV	Lakeview	Electrical/Control Building	Electrical/Controls	2016	N/A	Yes	Yes	N/A			1.00	2.00	10.00	1.00	1.00	1.00	1.00	17.00
LV	Lakeview	Site	Fencing	2016	N/A	Yes	Yes	N/A			1.00	1.00	1.00	1.00	1.00	2.00	1.00	8.00
LV	Lakeview	Site	Access Driveway	2016	N/A	Yes	Yes	N/A		Gravel access drive	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
LS	Lower Shaker Village	Steel Prefabricated Can Drypit	Pump #1	1987	N/A	Yes	Yes	N/A		20-HP non-clog vertical centrifugal pump. Designed for 425 gpm at 104 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	4.00	10.00	5.00	5.00	3.00	2.00	34.00
LS	Lower Shaker Village	Steel Prefabricated Can Drypit	Pump #2	1987	N/A	Yes	Yes	N/A		20-HP non-clog vertical centrifugal pump. Designed for 425 gpm at 104 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	4.00	10.00	5.00	5.00	3.00	2.00	34.00
LS	Lower Shaker Village	Steel Prefabricated Can Drypit	Pump Discharge Piping	1987	N/A	Yes	Yes	N/A		4-inch DI discharge piping	4.00	1.00	10.00	3.00	5.00	2.00	2.00	27.00
LS	Lower Shaker Village	Steel Prefabricated Can Drypit	Flow Meter	1987	N/A	Yes	Yes	N/A		4-inch magnetic flow meter	5.00	1.00	1.00	3.00	5.00	2.00	2.00	19.00
LS	Lower Shaker Village	Steel Prefabricated Can Drypit	Sump Pump	1987	N/A	Yes	Yes	N/A			5.00	2.00	1.00	2.00	5.00	3.00	2.00	20.00
LS	Lower Shaker Village	Influent Screening Tank	Manual Bar Rack	1987	N/A	Yes	Yes	N/A			3.00	1.00	8.00	5.00	3.00	2.00	2.00	24.00
LS	Lower Shaker Village	Wetwell	Level Sensing Equipment	1987	N/A	Yes	Yes	N/A		Radar level sensor with backup high/low alarm floats	3.00	1.00	10.00	2.00	3.00	2.00	2.00	23.00
LS	Lower Shaker Village	Wetwell	Pump Suction Piping	1987	N/A	Yes	Yes	N/A		4-inch DI suction piping	4.00	1.00	10.00	3.00	5.00	2.00	2.00	27.00
LS	Lower Shaker Village	Wetwell	Sluice Gates	1987	N/A	Yes	Yes	N/A		Three 10-inch cast-iron sluice gates on influent pipes and between split wetwell	4.00	1.00	3.00	3.00	4.00	2.00	2.00	19.00
LS	Lower Shaker Village	Wetwell	Access Hatches	1987	N/A	Yes	Yes	N/A		Two access hatches. There is no integral fall-protection installed.	4.00	1.00	1.00	1.00	1.00	4.00	2.00	14.00
LS	Lower Shaker Village	Wetwell	Concrete Structure	1987	N/A	Yes	Yes	N/A			2.00	1.00	10.00	2.00	2.00	4.00	2.00	23.00
LS	Lower Shaker Village	Sewage Holding Tanks	Concrete Structures	1987	N/A	Yes	Yes	N/A		Three concrete emergency holding tanks	2.00	1.00	3.00	2.00	2.00	3.00	2.00	15.00
LS	Lower Shaker Village	Electrical/Control Building	Building Architectural	1987	N/A	Yes	Yes	N/A			2.00	2.00	1.00	1.00	1.00	1.00	2.00	10.00
LS	Lower Shaker Village	Electrical/Control Building	Electrical/Controls	1987	N/A	Yes	Yes	N/A			4.00	2.00	10.00	1.00	1.00	1.00	2.00	21.00
LS	Lower Shaker Village	Site	Odor Control System	1987	N/A	No	Yes	N/A		Carbon odor control drum with fan - not used	2.00	2.00	1.00	1.00	1.00	1.00	2.00	10.00

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											1-5	1-5	1-10	1-5	1-5	1-5	1-10	7-45
LS	Lower Shaker Village	Site	Backup Generator	1987	N/A	Yes	Yes	N/A		36 kW propane generator	2.00	1.00	10.00	2.00	1.00	2.00	2.00	20.00
LS	Lower Shaker Village	Site	Fencing	1987	N/A	Yes	Yes	N/A			2.00	1.00	1.00	1.00	1.00	2.00	2.00	10.00
LS	Lower Shaker Village	Site	Access Driveway	1987	N/A	Yes	Yes	N/A		Paved access drive	1.00	1.00	1.00	1.00	1.00	1.00	2.00	8.00
MR	McConnell Road	Wetwell	Pump #1	2013	N/A	Yes	Yes	N/A		20-HP submersible pump. Designed for 275 gpm at 106 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	1.00	2.00	10.00	2.00	2.00	2.00	1.00	20.00
MR	McConnell Road	Wetwell	Pump #2	2013	N/A	Yes	Yes	N/A		20-HP submersible pump. Designed for 275 gpm at 106 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	1.00	2.00	10.00	2.00	2.00	2.00	1.00	20.00
MR	McConnell Road	Wetwell	Level Sensing Equipment	2013	N/A	Yes	Yes	N/A		Radar level sensor with backup high/low alarm floats	1.00	1.00	10.00	2.00	2.00	2.00	1.00	19.00
MR	McConnell Road	Wetwell	Pump Discharge Piping	2013	N/A	Yes	Yes	N/A		4-inch DI discharge piping	1.00	1.00	10.00	2.00	3.00	2.00	1.00	20.00
MR	McConnell Road	Wetwell	Exhaust Fan	2013	N/A	Yes	Yes	N/A		Centrifugal exhaust fan with 5-inch exhaust	1.00	2.00	1.00	2.00	1.00	2.00	1.00	10.00
MR	McConnell Road	Wetwell	Access Hatches	2013	N/A	Yes	Yes	N/A		Two stainless steel access hatches. There is no integral fall-protection installed.	1.00	1.00	1.00	1.00	1.00	4.00	1.00	10.00
MR	McConnell Road	Wetwell	Concrete Structure	2013	N/A	Yes	Yes	N/A		Top slab has significant damage from snow plowing activities	1.00	1.00	10.00	2.00	2.00	4.00	1.00	21.00
MR	McConnell Road	Valve Vault	Pump Discharge Piping	2013	N/A	Yes	Yes	N/A		4-inch DI discharge piping	1.00	1.00	10.00	2.00	3.00	2.00	1.00	20.00
MR	McConnell Road	Valve Vault	Pump Discharge Valves	2013	N/A	Yes	Yes	N/A		Two 4-inch plug valves	1.00	1.00	10.00	2.00	3.00	2.00	1.00	20.00
MR	McConnell Road	Valve Vault	Flow Meter	2013	N/A	Yes	Yes	N/A		4-inch magnetic flow meter	1.00	1.00	1.00	2.00	3.00	2.00	1.00	11.00
MR	McConnell Road	Valve Vault	Access Manholes	2013	N/A	Yes	Yes	N/A		There is no integral fall-protection installed	1.00	1.00	1.00	1.00	1.00	4.00	1.00	10.00
MR	McConnell Road	Valve Vault	Concrete Structure	2013	N/A	Yes	Yes	N/A		Vault is not watertight and regularly fills with water	1.00	1.00	5.00	5.00	4.00	4.00	1.00	21.00
MR	McConnell Road	Electrical/Control Building	Backup Generator	2013	N/A	Yes	Yes	N/A		100 kW propane generator	1.00	1.00	10.00	2.00	1.00	2.00	1.00	18.00
MR	McConnell Road	Electrical/Control Building	Building Architectural	2013	N/A	Yes	Yes	N/A			1.00	2.00	1.00	1.00	1.00	1.00	1.00	8.00
MR	McConnell Road	Electrical/Control Building	Building HVAC	2013	N/A	Yes	Yes	N/A			1.00	2.00	1.00	1.00	1.00	1.00	1.00	8.00

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											1-5	1-5	1-10	1-5	1-5	1-5	1-10	7-45
MR	McConnell Road	Electrical/Control Building	Electrical/Controls	2013	N/A	Yes	Yes	N/A			1.00	2.00	10.00	1.00	1.00	1.00	1.00	17.00
MR	McConnell Road	Site	Access Driveway	2013	N/A	Yes	Yes	N/A		Paved access drive	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
R4	Route 4A Enfield	Wetwell	Pump #1	1986	N/A	Yes	Yes	N/A		3-HP submersible pump. Designed for 100 gpm at 27 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	4.00	10.00	4.00	2.00	2.00	1.00	28.00
R4	Route 4A Enfield	Wetwell	Pump #2	1986	N/A	Yes	Yes	N/A		3-HP submersible pump. Designed for 100 gpm at 27 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	4.00	10.00	4.00	2.00	2.00	1.00	28.00
R4	Route 4A Enfield	Wetwell	Level Sensing Equipment	1986	N/A	Yes	Yes	N/A		Radar level sensor with backup high/low alarm floats	3.00	1.00	10.00	2.00	3.00	2.00	1.00	22.00
R4	Route 4A Enfield	Wetwell	Pump Discharge Piping	1986	N/A	Yes	Yes	N/A		3-inch DI discharge piping	4.00	1.00	10.00	2.00	3.00	2.00	1.00	23.00
R4	Route 4A Enfield	Wetwell	Access Hatch	1986	N/A	Yes	Yes	N/A		There is no integral fall-protection installed.	4.00	1.00	1.00	1.00	1.00	4.00	1.00	13.00
R4	Route 4A Enfield	Wetwell	Concrete Structure	1986	N/A	Yes	Yes	N/A		Top slab has significant damage, signs of infiltration into structure present	2.00	1.00	10.00	2.00	2.00	4.00	1.00	22.00
R4	Route 4A Enfield	Valve Vault	Pump Discharge Piping	1986	N/A	Yes	Yes	N/A		4-inch DI discharge piping	4.00	1.00	10.00	2.00	2.00	2.00	1.00	22.00
R4	Route 4A Enfield	Valve Vault	Pump Discharge Valves	1986	N/A	Yes	Yes	N/A		Two 4-inch check valves and four 4-inch plug valves	4.00	1.00	10.00	2.00	2.00	2.00	1.00	22.00
R4	Route 4A Enfield	Valve Vault	Flow Meter	1986	N/A	Yes	Yes	N/A		4-inch magnetic flow meter	5.00	1.00	1.00	2.00	2.00	2.00	1.00	14.00
R4	Route 4A Enfield	Valve Vault	Access Hatch	1986	N/A	Yes	Yes	N/A		There is no integral fall-protection installed	4.00	1.00	1.00	2.00	2.00	4.00	1.00	15.00
R4	Route 4A Enfield	Valve Vault	Sump Pump	1986	N/A	Yes	Yes	N/A			5.00	2.00	1.00	2.00	3.00	2.00	1.00	16.00
R4	Route 4A Enfield	Valve Vault	Concrete Structure	1986	N/A	Yes	Yes	N/A		Top slab has significant damage	2.00	1.00	5.00	2.00	2.00	4.00	1.00	17.00
R4	Route 4A Enfield	Site	Electrical/Controls	1986	N/A	Yes	Yes	N/A		Flow meter control panel remains in below-grade vault. The rest of controls have been brought above-grade	4.00	2.00	10.00	1.00	4.00	4.00	1.00	26.00
SB	Shaker Bridge	Wetwell	Level Sensing Equipment	1986	N/A	Yes	Yes	N/A		Radar level sensor with backup high/low alarm floats	3.00	1.00	10.00	2.00	3.00	2.00	8.00	29.00
SB	Shaker Bridge	Wetwell	Pump Suction Piping	1986	N/A	Yes	Yes	N/A		4-inch DI suction piping	4.00	1.00	10.00	2.00	4.00	2.00	8.00	31.00
SB	Shaker Bridge	Wetwell	Exhaust Fan	1986	N/A	No	No	N/A			5.00	2.00	1.00	2.00	3.00	2.00	8.00	23.00

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											1-5	1-5	1-10	1-5	1-5	1-5	1-10	7-45
SB	Shaker Bridge	Wetwell	Access Hatch	1986	N/A	Yes	Yes	N/A		There is no integral fall-protection installed	3.00	1.00	1.00	1.00	1.00	4.00	8.00	19.00
SB	Shaker Bridge	Wetwell	Concrete Structure	1986	N/A	Yes	Yes	N/A			3.00	1.00	10.00	2.00	5.00	5.00	8.00	34.00
SB	Shaker Bridge	Pump Room in Building	Pump #1	1986	N/A	Yes	Yes	N/A		25-HP suction-lift pump. Designed for 406 gpm at 91 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	4.00	10.00	4.00	2.00	2.00	8.00	35.00
SB	Shaker Bridge	Pump Room in Building	Pump #2	1986	N/A	Yes	Yes	N/A		25-HP suction-lift pump. Designed for 406 gpm at 91 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	4.00	10.00	4.00	2.00	2.00	8.00	35.00
SB	Shaker Bridge	Pump Room in Building	Pump Discharge Piping	1986	N/A	Yes	Yes	N/A		6-inch DI discharge piping	4.00	1.00	10.00	2.00	2.00	2.00	8.00	29.00
SB	Shaker Bridge	Pump Room in Building	Pump Discharge Valves	1986	N/A	Yes	Yes	N/A		Three 6-inch plug valves and two 6-inch check valves	4.00	1.00	10.00	2.00	2.00	2.00	8.00	29.00
SB	Shaker Bridge	Pump Room in Building	Flow Meter	1986	N/A	Yes	Yes	N/A		4-inch magnetic flow meter	5.00	1.00	1.00	2.00	2.00	2.00	8.00	21.00
SB	Shaker Bridge	Electrical/Control Building	Backup Generator	1986	N/A	Yes	Yes	N/A		80 kW diesel generator	4.00	1.00	10.00	2.00	2.00	2.00	8.00	29.00
SB	Shaker Bridge	Electrical/Control Building	Building Architectural	1986	N/A	Yes	Yes	N/A			4.00	2.00	1.00	1.00	1.00	1.00	8.00	18.00
SB	Shaker Bridge	Electrical/Control Building	Building HVAC	1986	N/A	Yes	Yes	N/A			4.00	2.00	1.00	1.00	1.00	1.00	8.00	18.00
SB	Shaker Bridge	Electrical/Control Building	Electrical/Controls	1986	N/A	Yes	Yes	N/A			4.00	2.00	10.00	1.00	1.00	1.00	8.00	27.00
WS	Wells Street	Wetwell	Pump #1	1986	N/A	Yes	Yes	N/A		2-HP submersible pump. Designed for 100 gpm at 23 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	2.00	10.00	4.00	2.00	2.00	1.00	26.00
WS	Wells Street	Wetwell	Pump #2	1986	N/A	Yes	Yes	N/A		2-HP submersible pump. Designed for 100 gpm at 23 ft TDH. The pump operates via a radar level sensor system based on the liquid level within the wetwell.	5.00	2.00	10.00	4.00	2.00	2.00	1.00	26.00
WS	Wells Street	Wetwell	Level Sensing Equipment	1986	N/A	Yes	Yes	N/A		Radar level sensor with backup high/low alarm floats	3.00	1.00	10.00	2.00	3.00	2.00	1.00	22.00
WS	Wells Street	Wetwell	Pump Discharge Piping	1986	N/A	Yes	Yes	N/A		4-inch DI discharge piping	4.00	1.00	10.00	2.00	3.00	2.00	1.00	23.00
WS	Wells Street	Wetwell	Access Hatch	1986	N/A	Yes	Yes	N/A		There is no integral fall-protection installed.	3.00	1.00	1.00	1.00	1.00	4.00	1.00	12.00
WS	Wells Street	Wetwell	Concrete Structure	1986	N/A	Yes	Yes	N/A		Top slab has significant damage	2.00	1.00	10.00	2.00	2.00	4.00	1.00	22.00
WS	Wells Street	Valve Vault	Pump Discharge Piping	1986	N/A	Yes	Yes	N/A		4-inch DI discharge piping	4.00	1.00	10.00	2.00	2.00	2.00	1.00	22.00

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											1-5	1-5	1-10	1-5	1-5	1-5	1-10	7-45
WS	Wells Street	Valve Vault	Pump Discharge Valves	1986	N/A	Yes	Yes	N/A		Two 4-inch check valves and three 4-inch plug valves	4.00	1.00	10.00	2.00	2.00	2.00	1.00	22.00
WS	Wells Street	Valve Vault	Access Hatch	1986	N/A	Yes	Yes	N/A		There is no integral fall-protection installed	3.00	1.00	1.00	1.00	1.00	4.00	1.00	12.00
WS	Wells Street	Valve Vault	Sump Pump	1986	N/A	Yes	Yes	N/A			5.00	2.00	1.00	2.00	3.00	2.00	1.00	16.00
WS	Wells Street	Valve Vault	Concrete Structure	1986	N/A	Yes	Yes	N/A		Top slab has significant damage	2.00	1.00	5.00	2.00	2.00	4.00	1.00	17.00
WS	Wells Street	Site	Electrical/Controls	1986	N/A	Yes	Yes	N/A		Electrical/controls located in below-grade valve vault	4.00	2.00	10.00	1.00	5.00	5.00	1.00	28.00