Appendix D

Collection System Attribute Information

Map Key	Year Installed	Material	Diameter (Inches)	Length (Feet)	Upstream Invert	Downstream Invert	Slope	Capacity at 80% d/D (GPM)	Last CCTV Inspection
0	1950s	Reinforced Concrete	8	354	2097.6	2089.1	2.42%	896	Unk.
1	1950s	Reinforced Concrete	8	186	2147.5	2146.0	0.80%	515	Unk.
2	1950s	Reinforced Concrete	8	103	2157.8	2157.4	0.35%	340	Unk.
3	1950s	Reinforced Concrete	8	350	2157.4	2151.0	1.83%	778	Unk.
4	1950s	Reinforced Concrete	8	183	2151.0	2144.8	3.41%	1064	Unk.
5	1950s	Reinforced Concrete	8	92	2151.4	2151.0	0.41%	371	Unk.
6	1950s	Reinforced Concrete	8	143	2158.1	2157.4	0.51%	412	Unk.
7	1950s	Reinforced Concrete	8	362	2144.8	2140.8	1.11%	606	Unk.
8	1950s	Reinforced Concrete	8	360	2140.8	2139.5	0.36%	343	Unk.
9	1950s	Reinforced Concrete	8	151	2139.5	2138.8	0.42%	372	Unk.
10	1950s	Reinforced Concrete	8	137	2138.8	2138.7	0.09%	177	Unk.
11	1950s	Reinforced Concrete	8	323	2138.7	2137.2	0.47%	394	Unk.
12	1950s	Reinforced Concrete	8	195	2137.2	2136.5	0.36%	345	Unk.
13	1950s	Reinforced Concrete	8	209	2136.5	2133.4	1.47%	699	Unk.
14	1950s	Reinforced Concrete	8	362	2150.0	2144.0	1.67%	744	Unk.
15	1950s	Reinforced Concrete	8	189	2144.0	2139.5	2.39%	889	Unk.
16	1950s	Reinforced Concrete	8	139	2141.9	2141.4	0.36%	345	Unk.
17	1950s	Reinforced Concrete	8	180	2141.4	2140.8	0.36%	343	Unk.
18	1950s	Reinforced Concrete	8	331	2125.7	2124.3	0.40%	364	Unk.
19	1950s	Reinforced Concrete	8	400	2122.3	2120.7	0.40%	364	Unk.
20	1950s	Reinforced Concrete	8	282	2125.5	2124.3	0.40%	364	Unk.
21	1950s	Reinforced Concrete	8	312	2152.3	2150.0	0.75%	497	Unk.
22	1950s	Reinforced Concrete	8	212	2150.0	2140.6	4.43%	1212	Unk.
23	1950s	Reinforced Concrete	8	209	2140.6	2139.9	0.35%	341	Unk.
24	1950s	Reinforced Concrete	8	168	2139.9	2139.4	0.30%	317	Unk.
25	1950s	Reinforced Concrete	8	350	2139.4	2138.0	0.38%	356	2022
26	1950s	Reinforced Concrete	8	367	2138.0	2136.6	0.39%	361	Unk.
27	1950s	Reinforced Concrete	8	236	2136.6	2135.9	0.28%	305	Unk.
28	1950s	Reinforced Concrete	8	252	2135.9	2135.0	0.36%	344	Unk.
29	1950s	Reinforced Concrete	8	88	2135.0	2134.7	0.37%	352	Unk.
30	1950s	Reinforced Concrete	8	204	2134.7	2134.0	0.35%	342	Unk.
31	1950s	Reinforced Concrete	8	1041	2147.6	2143.4	0.40%	364	Unk.
32	1950s	Reinforced Concrete	8	622	2143.4	2140.9	0.40%	364	Unk.
33	1950s	Reinforced Concrete	8	54	2140.9	2140.7	0.40%	364	Unk.
34	1950s	Reinforced Concrete	8	105	2140.7	2140.3	0.40%	364	Unk.
35	1950s	Reinforced Concrete	8	150	2140.3	2139.7	0.40%	364	Unk.
36	1950s	Reinforced Concrete	8	216	2139.7	2137.4	1.06%	594	Unk.
37	1950s	Reinforced Concrete	8	101	2141.0	2139.7	1.25%	644	Unk.
38	1950s	Reinforced Concrete	8	240	2147.5	2143.4	1.71%	752	Unk.
39	1950s	Reinforced Concrete	8	293	2144.0	2137.4	2.25%	864	Unk.
40	1950s	Reinforced Concrete	8	319	2147.0	2144.2	0.88%	541	Unk.
41	1950s	Reinforced Concrete	8	273	2142.7	2141.3	0.51%	412	Unk.
42	1950s	Reinforced Concrete	8	186	2141.3	2140.5	0.45%	385	Unk.
43	1950s	Reinforced Concrete	8	293	2143.4	2140.8	0.90%	547	Unk.
44	1950s	Reinforced Concrete	8	266	2156.0	2148.5	2.81%	965	Unk.
45	1950s	Reinforced Concrete	8	359	2148.5	2147.2	0.36%	347	Unk.
46	1950s	Reinforced Concrete	8	358	2147.2	2142.5	1.30%	658	Unk.
47	1950s	Reinforced Concrete	8	373	2142.5	2141.2	0.36%	344	Unk.
48	1950s	Reinforced Concrete	8	99	2152.7	2143.7	9.08%	1735	Unk.
49	1950s	Reinforced Concrete	8	180	2143.7	2143.0	0.40%	364	Unk.
50	1950s	Reinforced Concrete	8	288	2159.0	2149.0	3.48%	1074	Unk.
51	1950s	Reinforced Concrete	8	180	2149.0	2145.5	1.91%	796	Unk.
52	1950s	Reinforced Concrete	8	170	2145.5	2142.6	1.74%	759	Unk.
53	1950s	Reinforced Concrete	8	348	2142.6	2141.3	0.35%	342	2022
54	1950s	Reinforced Concrete	8	352	2141.3	2137.8	1.01%	577	2022
55	1950s	Reinforced Concrete	8	385	2137.8	2132.5	1.38%	677	Unk.
56	1950s	Reinforced Concrete	8	356	2132.5	2126.5	1.67%	743	Unk.
57	1950s	Reinforced Concrete	10	178	2134.0	2133.5	0.27%	547	Unk.
58	1950s	Reinforced Concrete	10	210	2133.5	2132.9	0.28%	548	Unk.

Map Key	Year Installed	Material	Diameter (Inches)	Length (Feet)	Upstream Invert	Downstream Invert	Slope	Capacity at 80% d/D (GPM)	Last CCTV Inspection
59	1950s	Reinforced Concrete	10	434	2132.9	2126.3	1.53%	1290	Unk.
60	1950s	Reinforced Concrete	8	267	2156.0	2152.5	1.29%	655	Unk.
61	1950s	Reinforced Concrete	8	186	2152.5	2145.5	3.76%	1116	Unk.
62	1950s	Reinforced Concrete	8	359	2148.8	2143.2	1.57%	721	Unk.
63	1950s	Reinforced Concrete	8	347	2143.2	2141.8	0.41%	369	Unk.
64	1950s	Reinforced Concrete	8	162	2141.6	2141.1	0.27%	300	Unk.
65	1950s	Reinforced Concrete	8	344	2141.1	2138.0	0.91%	548	Unk.
66	1950s	Reinforced Concrete	8	298	2147.6	2141.8	1.95%	805	Unk.
67	1950s	Reinforced Concrete	8	230	2145.7	2140.0	2.49%	908	Unk.
68	1950s	Reinforced Concrete	8	243	2140.0	2136.6	1.40%	681	Unk.
69	1950s	Reinforced Concrete	12	253	2126.3	2121.2	2.02%	2411	Unk.
70	1950s	Reinforced Concrete	12	389	2121.2	2114.0	1.85%	2310	Unk.
71	1950s	Reinforced Concrete	15	144	2114.0	2113.7	0.19%	1332	Unk.
72	1950s	Reinforced Concrete	15	56	2113.7	2113.6	0.18%	1302	Unk.
73	1950s	Reinforced Concrete	15	215	2113.6	2113.3	0.14%	1170	Unk.
74	1950s	Reinforced Concrete	15	262	2113.3	2112.9	0.16%	1217	2022
75	1950s	Reinforced Concrete	15	255	2112.9	2112.5	0.15%	1204	Unk.
76	1950s	Reinforced Concrete	15	276	2112.5	2112.1	0.15%	1187	2022
77	1950s	Reinforced Concrete	15	340	2112.1	2111.6	0.15%	1181	Unk.
78	1950s	Reinforced Concrete	8	294	2132.4	2131.2	0.41%	368	Unk.
79	1950s	Reinforced Concrete	8	349	2131.2	2130.0	0.35%	342	Unk.
80	1950s	Reinforced Concrete	8	389	2130.0	2122.0	2.06%	826	Unk.
81	1950s	Reinforced Concrete	8	179	2122.0	2114.0	4.49%	1220	Unk.
82	1950s	Reinforced Concrete	8	248	2125.2	2120.9	1.77%	766	Unk.
83	1950s	Reinforced Concrete	8	308	2120.9	2114.4	2.09%	832	Unk.
84	1950s	Reinforced Concrete	8	294	2125.0	2123.7	0.45%	384	Unk.
85	1950s	Reinforced Concrete	8	359	2123.7	2119.5	1.16%	620	Unk.
86	1950s	Reinforced Concrete	8	374	2119.5	2114.2	1.42%	686	Unk.
87	1950s	Reinforced Concrete	8	250	2162.6	2160.2	0.98%	570	Unk.
88	1950s	Reinforced Concrete	8	361	2153.1	2142.6	2.91%	982	Unk.
89	1950s	Reinforced Concrete	8	381	2142.6	2133.4	2.42%	895	Unk.
90	1950s	Reinforced Concrete	8	325	2133.4	2128.9	1.39%	680	Unk.
91	1950s	Reinforced Concrete	8	126	2128.9	2115.0	11.07%	1916	Unk.
92	1950s	Reinforced Concrete	8	233	2115.0	2103.0	5.14%	1306	Unk.
93	1950s	Reinforced Concrete	8	358	2103.0	2097.6	1.50%	704	Unk.
94	1950s	Reinforced Concrete	8	294	2135.3	2134.3	0.35%	342	Unk.
95	1950s	Reinforced Concrete	8	347	2134.3	2129.2	1.45%	695	Unk.
96	1950s	Reinforced Concrete	8	389	2129.2	2119.2	2.58%	926	Unk.
97	1950s	Reinforced Concrete	8	326	2119.2	2104.4	4.54%	1227	Unk.
98	1950s	Reinforced Concrete	8	257	2127.3	2125.1	0.85%	531	Unk.
99	1950s	Reinforced Concrete	8	353	2125.1	2122.0	0.88%	539	Unk.
100	1950s	Reinforced Concrete	8	366	2122.0	2113.3	2.37%	887	Unk.
101	1950s	Reinforced Concrete	8	260	2113.3	2104.4	3.42%	1065	Unk.
102	1950s	Reinforced Concrete	8	100	2104.4	2103.4	1.00%	577	Unk.
103	1950s	Reinforced Concrete	15	360	2111.6	2111.3	0.08%	873	2022
104	1950s	Reinforced Concrete	15	296	2111.3	2111.2	0.04%	645	Unk.
105	1950s	Reinforced Concrete	15	405	2111.2	2110.0	0.29%	1655	Unk.
106	1950s	Reinforced Concrete	15	284	2110.0	2103.0	2.47%	4835	2022
107	1950s	Reinforced Concrete	18	181	2089.1	2088.4	0.36%	3020	Unk.
108	1950s	Reinforced Concrete	15	10	2103.0	2102.7	3.20%	5507	Unk.
109	1950s	Reinforced Concrete	15	321	2102.7	2098.8	1.21%	3380	Unk.
110	1950s	Reinforced Concrete	15	55	2098.8	2098.1	1.36%	3594	Unk.
111	1950s	Reinforced Concrete	15	401	2098.1	2088.0	2.51%	4878	Unk.
112	1950s	Reinforced Concrete	18	110	2088.0	2087.8	0.20%	2237	Unk.
113	1950s	Reinforced Concrete	18	388	2087.8	2087.0	0.20%	2245	Unk.
114	1950s	Reinforced Concrete	18	398	2087.0	2086.4	0.16%	1975	Unk.
115	1950s	Reinforced Concrete	18	79	2086.4	2086.2	0.29%	2697	Unk.
116	1950s	Reinforced Concrete	8	393	2121.8	2118.5	0.85%	532	Unk.
117	1950s	Reinforced Concrete	8	361	2118.5	2117.2	0.36%	346	Unk.

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118	1950s	Reinforced Concrete	8	362	2117.2	2113.5	1.00%	576	Unk.
119	1950s	Reinforced Concrete	8	330	2113.5	2107.5	1.82%	778	Unk.
120	1950s	Reinforced Concrete	8	366	2107.5	2106.2	0.36%	344	Unk.
121	1950s	Reinforced Concrete	8	286	2123.6	2122.5	0.37%	350	Unk.
122	1950s	Reinforced Concrete	8	365	2122.5	2121.2	0.36%	345	Unk.
123	1950s	Reinforced Concrete	8	384	2121.2	2119.9	0.34%	335	Unk.
124	1950s	Reinforced Concrete	8	346	2110.3	2108.9	0.40%	364	Unk.
125	1950s	Reinforced Concrete	6	325	2116.4	2114.5	0.60%	207	Unk.
126	1950s	Reinforced Concrete	8	281	2119.3	2112.1	2.53%	917	Unk.
127	1950s	Reinforced Concrete	8	364	2112.1	2109.2	0.80%	514	Unk.
128	1950s	Reinforced Concrete	8	382	2118.5	2117.2	0.34%	336	Unk.
129	1950s	Reinforced Concrete	8	354	2117.2	2116.0	0.36%	347	Unk.
130	1950s	Reinforced Concrete	8	117	2116.0	2115.5	0.40%	364	Unk.
131	1950s	Reinforced Concrete	8	355	2115.5	2114.2	0.36%	343	Unk.
132	1950s	Reinforced Concrete	8	368	2119.9	2118.5	0.36%	343	Unk.
133	1950s	Reinforced Concrete	8	363	2146.0	2141.9	1.13%	613	Unk.
134	Unk.	Unk.	8	262	Unk.	Unk.	Unk.	Unk.	Unk.
135	Unk.	Unk.	8	121	Unk.	Unk.	Unk.	Unk.	Unk.
136	Unk.	Unk.	8	350	Unk.	Unk.	Unk.	Unk.	Unk.
137	Unk.	Unk.	8	246	Unk.	Unk.	Unk.	Unk.	Unk.
138	Unk.	Unk.	8	194	Unk.	Unk.	Unk.	Unk.	Unk.
139	Unk.	Unk.	8	331	Unk.	Unk.	Unk.	Unk.	Unk.
140	Unk.	Unk.	8	271	Unk.	Unk.	Unk.	Unk.	Unk.
141	Unk.	Unk.	8	316	Unk.	Unk.	Unk.	Unk.	Unk.
142	Unk.	Unk.	8	135	Unk.	Unk.	Unk.	Unk.	Unk.
143	Unk.	Unk.	8	175	Unk.	Unk.	Unk.	Unk.	Unk.
144	Unk.	Unk.	8	193	Unk.	Unk.	Unk.	Unk.	Unk.
145	Unk.	Unk.	8	179	Unk.	Unk.	Unk.	Unk.	Unk.
146	Unk.	Unk.	8	193	Unk.	Unk.	Unk.	Unk.	Unk.
147	Unk.	Unk.	8	174	Unk.	Unk.	Unk.	Unk.	Unk.
148	Unk.	Unk.	8	326	Unk.	Unk.	Unk.	Unk.	Unk.
149	Unk.	Unk.	8	337	Unk.	Unk.	Unk.	Unk.	Unk.
150	Unk.	Unk.	8	545	Unk.	Unk.	Unk.	Unk.	Unk.
151	Unk.	Unk.	8	691	Unk.	Unk.	Unk.	Unk.	Unk.
152	Unk.	Unk.	8	287	Unk.	Unk.	Unk.	Unk.	Unk.
153	Unk.	Unk.	8	305	Unk.	Unk.	Unk.	Unk.	Unk.
154	Unk.	Unk.	8	477	Unk.	Unk.	Unk.	Unk.	Unk.
155	Unk.	Unk.	8	43	Unk.	Unk.	Unk.	Unk.	Unk.
156	Unk.	Unk.	8	52	Unk.	Unk.	Unk.	Unk.	Unk.
157	Unk.	Unk.	8	283	Unk.	Unk.	Unk.	Unk.	Unk.
158	Unk.	Unk.	8	306	Unk.	Unk.	Unk.	Unk.	Unk.
159	Unk.	Unk.	8	165	Unk.	Unk.	Unk.	Unk.	Unk.
160	Unk.	Unk.	8	145	Unk.	Unk.	Unk.	Unk.	Unk.
161	Unk.	Unk.	8	141	Unk.	Unk.	Unk.	Unk.	Unk.
162	Unk.	Unk.	8	260	Unk.	Unk.	Unk.	Unk.	Unk.
163	Unk.	Unk.	8	309	Unk.	Unk.	Unk.	Unk.	Unk.
164	Unk.	Unk.	8	249	Unk.	Unk.	Unk.	Unk.	Unk.
165	Unk.	Unk.	8	87	Unk.	Unk.	Unk.	Unk.	Unk.
166	Unk.	Unk.	8	539	Unk.	Unk.	Unk.	Unk.	Unk.
167	Unk.	Unk.	8	304	Unk.	Unk.	Unk.	Unk.	Unk.
168	Unk.	Unk.	8	245	Unk.	Unk.	Unk.	Unk.	Unk.
169	Unk.	Unk.	8	326	Unk.	Unk.	Unk.	Unk.	Unk.
170	Unk.	Unk.	8	394	Unk.	Unk.	Unk.	Unk.	Unk.
171	Unk.	Unk.	8	310	Unk.	Unk.	Unk.	Unk.	Unk.
172	Unk.	Unk.	8	292	Unk.	Unk.	Unk.	Unk.	Unk.
173	Unk.	Unk.	8	274	Unk.	Unk.	Unk.	Unk.	Unk.
174	Unk.	Unk.	8	339	Unk.	Unk.	Unk.	Unk.	Unk.
175	Unk.	Unk.	8	286	Unk.	Unk.	Unk.	Unk.	Unk.
176	Unk.	Unk.	8	539	Unk.	Unk.	Unk.	Unk.	Unk.

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177	Unk.	Unk.	8	290	Unk.	Unk.	Unk.	Unk.	Unk.
178	Unk.	Unk.	8	303	Unk.	Unk.	Unk.	Unk.	Unk.
179	Unk.	Unk.	8	265	Unk.	Unk.	Unk.	Unk.	Unk.
180	Unk.	Unk.	8	355	Unk.	Unk.	Unk.	Unk.	2022
181	Unk.	Unk.	8	328	Unk.	Unk.	Unk.	Unk.	Unk.
182	Unk.	Unk.	8	260	Unk.	Unk.	Unk.	Unk.	Unk.
183	Unk.	Unk.	8	184	Unk.	Unk.	Unk.	Unk.	Unk.
184	Unk.	Unk.	8	317	Unk.	Unk.	Unk.	Unk.	Unk.
185	Unk.	Unk.	8	298	Unk.	Unk.	Unk.	Unk.	Unk.
186	Unk.	Unk.	8	325	Unk.	Unk.	Unk.	Unk.	Unk.
187	Unk.	Unk.	8	50	Unk.	Unk.	Unk.	Unk.	Unk.
188	Unk.	Unk.	8	225	Unk.	Unk.	Unk.	Unk.	Unk.
189	Unk.	Unk.	8	316	Unk.	Unk.	Unk.	Unk.	Unk.
190	Unk.	Unk.	8	374	Unk.	Unk.	Unk.	Unk.	Unk.
191	Unk.	Unk.	8	232	Unk.	Unk.	Unk.	Unk.	Unk.
192	Unk.	Unk.	8	196	Unk.	Unk.	Unk.	Unk.	Unk.
193	Unk.	Unk.	8	77	Unk.	Unk.	Unk.	Unk.	Unk.
194	Unk.	Unk.	8	295	Unk.	Unk.	Unk.	Unk.	Unk.
195	Unk.	Unk.	8	331	Unk.	Unk.	Unk.	Unk.	Unk.
196	Unk.	Unk.	8	246	Unk.	Unk.	Unk.	Unk.	Unk.
197	Unk.	Unk.	8	175	Unk.	Unk.	Unk.	Unk.	Unk.
198	Unk.	Unk.	8	162	Unk.	Unk.	Unk.	Unk.	Unk.
199	Unk.	Unk.	8	229	Unk.	Unk.	Unk.	Unk.	Unk.
200	Unk.	Unk.	8	291	Unk.	Unk.	Unk.	Unk.	Unk.
201	Unk.	Unk.	8	275	Unk.	Unk.	Unk.	Unk.	Unk.
202	Unk.	Unk.	8	196	Unk.	Unk.	Unk.	Unk.	Unk.
203	Unk.	Unk.	8	347	Unk.	Unk.	Unk.	Unk.	Unk.
204	Unk.	Unk.	8	326	Unk.	Unk.	Unk.	Unk.	Unk.
205	Unk.	Unk.	8	150	Unk.	Unk.	Unk.	Unk.	Unk.
206	Unk.	Unk.	8	189	Unk.	Unk.	Unk.	Unk.	Unk.
207	Unk.	Unk.	8	185	Unk.	Unk.	Unk.	Unk.	Unk.
208	Unk.	Unk.	8	149	Unk.	Unk.	Unk.	Unk.	Unk.
209	Unk.	Unk.	8	311	Unk.	Unk.	Unk.	Unk.	Unk.
210	Unk.	Unk.	8	119	Unk.	Unk.	Unk.	Unk.	Unk.
211	Unk.	Unk.	8	303	Unk.	Unk.	Unk.	Unk.	2022
212	Unk.	Unk.	8	338	Unk.	Unk.	Unk.	Unk.	Unk.
213	Unk.	Unk.	4 or 6 (Unk.)	331	Unk.	Unk.	Unk.	Unk.	Unk.
214	Unk.	Unk.	4 or 6 (Unk.)	435	Unk.	Unk.	Unk.	Unk.	Unk.
215	Unk.	Unk.	4 or 6 (Unk.)	550	Unk.	Unk.	Unk.	Unk.	Unk.
216	Unk.	Unk.	4 or 6 (Unk.)	164	Unk.	Unk.	Unk.	Unk.	Unk.
217	Unk.	Unk.	8	454	Unk.	Unk.	Unk.	Unk.	2022
218	Unk.	Unk.	8	326	Unk.	Unk.	Unk.	Unk.	2022
219	Unk.	Unk.	8	174	Unk.	Unk.	Unk.	Unk.	Unk.
220	Unk.	Unk.	8	207	Unk.	Unk.	Unk.	Unk.	Unk.
221	Unk.	Unk.	8	368	Unk.	Unk.	Unk.	Unk.	Unk.
222	Unk.	Unk.	8	312	Unk.	Unk.	Unk.	Unk.	Unk.
223	Unk.	Unk.	8	120	Unk.	Unk.	Unk.	Unk.	Unk.
224	Unk.	Unk.	8	285	Unk.	Unk.	Unk.	Unk.	Unk.
225	Unk.	Unk.	8	215	Unk.	Unk.	Unk.	Unk.	Unk.
226	Unk.	Unk.	Unk.	104	Unk.	Unk.	Unk.	Unk.	Unk.
227	Unk.	Unk.	Unk.	134	Unk.	Unk.	Unk.	Unk.	Unk.
228	Unk.	Unk.	Unk.	44	Unk.	Unk.	Unk.	Unk.	Unk.

Appendix E

Lift Station Housekeeping Checklist

HELPING EACH OTHER
CREATE BETTER COMMUNITIES

J-U-B

THE LANGDON GROUP | GATEWAY MAPPING INC.

J-U-B FAMILY OF COMPANIES

LIFT STATION GOOD HOUSEKEEPING CHECKLIST

DATE UPDATED: 9/27/2022

TO: Inspectors, Operators

DESCRIPTION: This form is used to document the general housekeeping items necessary to effectively operate and maintain a modern lift station. This form does not include consideration of the lift stations capacity and should not be used for trouble shooting of problematic lift stations, but rather general data collection/documentation.

General Lift Station Data

Lift Station Name: _____

Location: _____

Sketch of Site Layout:

_____

Pump Data

Pump Manufacturer: Model:

Pump/Well Configuration (Drywell, wetwell):

Number of Pumps:

Pump Drive (Smart run, VFD, fixed):

Pump Design Point[1]: Gallons per Minute @ Feet TDH

Describe Pump Maintenance History and Document Any Known Issues:

[1] Refer to attached drawdown test template for field measured pump rate

Wet Well Data

Wet Well Material: Wet Well Diameter:

Number of Inlet Pipes: Inlet Pipe Diameter and Material:

Plumbed Overflow: Y / N Overflow Location:

Pump Mounting/Retrieval Equipment:

Onsite Davit Crane: Y / N

Odor Control/Onsite Treatment:

Wet Well Condition Notes:

Discharge Piping, Valve Vault & Flow Meter

Discharge Piping Diameter & Material: _____

Discharge Pressure Gauge: Y / N _____

Discharge Pressure Gauge Manufacturer: _____ Model: _____

Discharge Pressure Gauge Regularly Calibrated: _____

Flow Meter: Y / N _____

Flow Meter Manufacturer: _____ Model: _____

Flow Meter Regularly Calibrated: _____

Sketch Valve Vault. Include valves, fittings, and other appurtenances. Include a discussion of bypass pumping provisions (or lack of):

Forcemain

Forcemain Diameter: _____

Forcemain Material: _____

Forcemain Discharge Location: _____

Contiously Ascending Profile: Y / N Air Release Valves: Y / N

Forcemain Maintenance History:

Electrical, Instrumentation, and Controls

Standby Power: Y / N

Generator Enclosure: Fuel Type:

Generator Manufacturer: Model:

Horsepower: Fuel Tank Capacity:

Automatic Transfer Switch: Y / N

Transfer Switch Manufacturer: Model:

Pump Set Points	Pump 1	Pump 2	Pump 3	Pump 4
On / Off				

Other Set Points	Low Level	High Level			
Elevation					

Telemetry/Lift Station Communication Notes:

Safety

Item	Yes / No (Circle One)	Description
Wet Well Fall Protection: Vault Fall Protection:	Y / N Y / N	
Hose Bib or Other Source of Onsite Washdown Water:	Y / N	
Wet Well Hatch Kept Locked: Valve Vault Hatch Kept Locked:	Y / N Y / N	
Fire Extinguisher Onsite:	Y / N	
Other Safety Equipment Notes:		

Site Security

Describe site security. Common elements include no trespassing signs, chain link fence, and locking gates. More advanced elements include security cameras and intrusion alarms.

Pump Drawdown Testing

Instructions: Use a stopwatch and laser distance reader to note the change in effluent level in the well during a constant time interval. The geometry of the wet well can be used with this data to calculate the change in volume over time (flow rate). Remember to subtract the calculated fill rate from the calculated draw down rate to get the actual flow rate of the pump. Complete a test for each pump individually, and each combination of pumps.

Important Reminders:

- Manually control pumps to allow wet well to fill to adequate depth for tests.
- Ensure effluent is not backing up into the collection system or spilling out of a plumbed overflow.
- Do not draw down the effluent level below the low level cutoff of the lift station.
- If pumped is equipped with VFD, ensure pump is set to run at 60 Hz. During test, run pump and record the change in wet well depth with respect to time.

Lift Station: _____

Pump: _____

DRAWDOWN DATA (Q out)		FILL DATA (Q in)	
Test Time (Seconds)	Effluent Depth from Rim (inches)	Test Time (Seconds)	Effluent Depth from Rim (inches)
0	60	0	50
10	55	10	51
20	50	20	52

Lift Station: _____

Pump: _____

DRAWDOWN DATA (Q out)		FILL DATA (Q in)	
Test Time (Seconds)	Effluent Depth from Rim (inches)	Test Time (Seconds)	Effluent Depth from Rim (inches)
0	60	0	50
10	55	10	51
20	50	20	52

Lift Station: _____

Pump: _____

DRAWDOWN DATA (Q out)		FILL DATA (Q in)	
Test Time (Seconds)	Effluent Depth from Rim (inches)	Test Time (Seconds)	Effluent Depth from Rim (inches)
0	60	0	50
10	55	10	51
20	50	20	52

Lift Station: _____

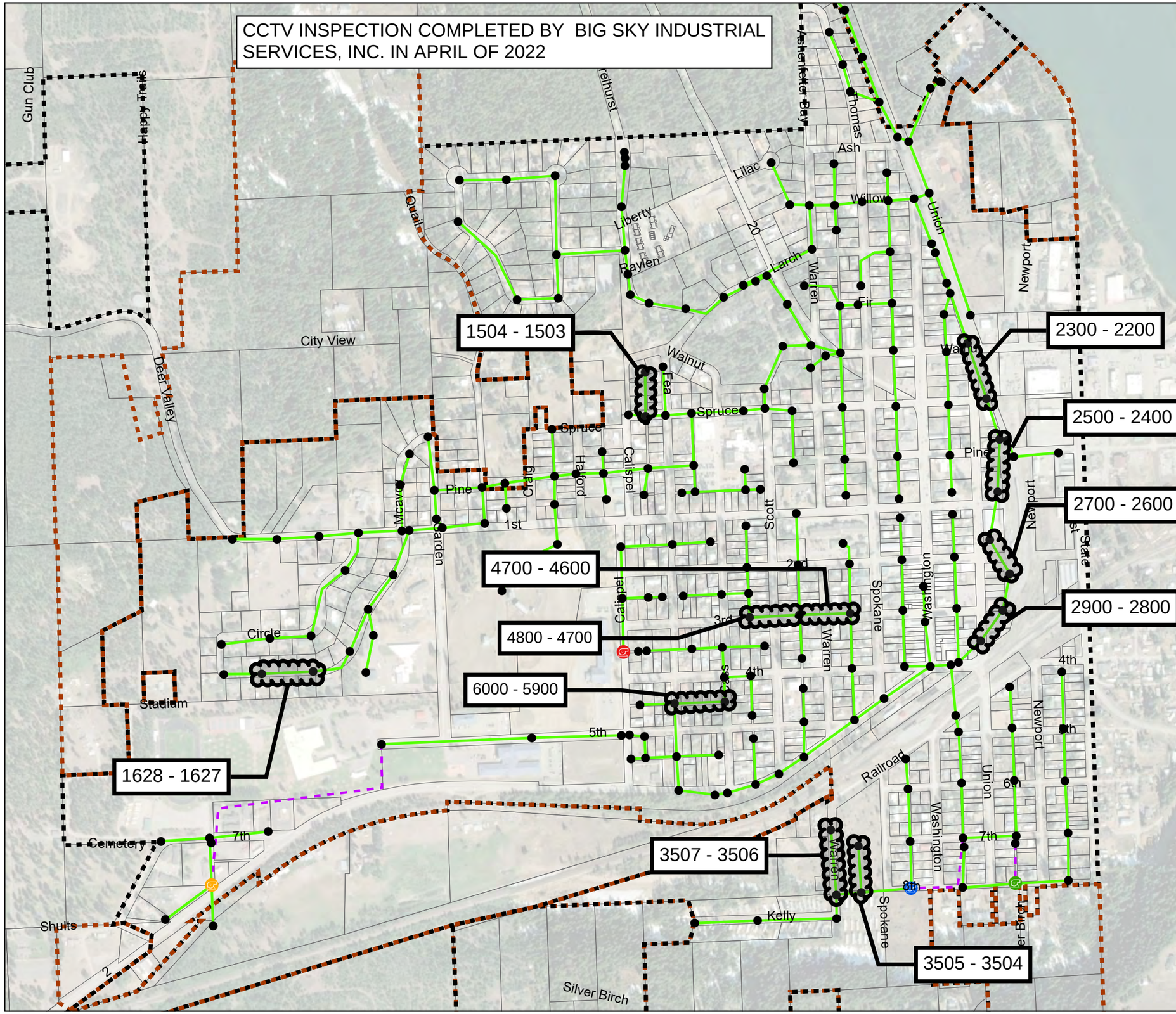
Pump: _____

DRAWDOWN DATA (Q out)		FILL DATA (Q in)	
Test Time (Seconds)	Effluent Depth from Rim (inches)	Test Time (Seconds)	Effluent Depth from Rim (inches)
0	60	0	50
10	55	10	51
20	50	20	52

Appendix F

CCTV Inspection Report Summaries

CCTV INSPECTION COMPLETED BY BIG SKY INDUSTRIAL SERVICES, INC. IN APRIL OF 2022



City of Newport
Wastewater Master Plan

Figure 1

CCTV Inspection Figure

Legend

- City Limits
- UGA
- LS1 (Plagers)
- LS2 (Bing)
- LS3 (Riverbend)
- LS4 (Kalispel)
- Gravity Pipe
- Forcemain

0 1,000 2,000 ft

N W E S

Date: Sep 14, 2022

J·U·B ENGINEERS, INC.

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 12:35:00 PM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 1504
Length Surveyed: 20.1	**Downstream MH Number:** SSMH 1503
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 8"	**Pipe Material:** Polyvinyl Chloride

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	26:05:45	
8.7	**Lateral Left** **Position: 10** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	11:41:41	
20.1	**End Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	19:49:49	

Created with the POSM **report generator** Back

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 12:35:00 PM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 1504
Length Surveyed: 20.1	**Downstream MH Number:** SSMH 1503
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 8"	**Pipe Material:** Polyvinyl Chloride

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: SSMH 1503

(2.5) SI - Start Inspection

(8.7) LL - Lateral Left - Position: 10

(20.1) EI - End Inspection

Total Distance: 20.1

ID Number: SSMH 1504

Created with the **report generator** Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 2:51:00 PM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 1628
Length Surveyed: 302.4	**Downstream MH Number:** SSMH 1627
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	28:09:39	
16.1	**Lateral Left** **Position: 9** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	94:09:59	
37.2	**SLIGHT STANDING WATER** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	17:30:30	

Distance	Fault Observation	Time	Picture
56.7	**Lateral Right** **Position: 1** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	25:49:49	
62.3	**SLIGHT STANDING WATER** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	28:31:31	
82.6	**Belly** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	37:17:16	

Distance	Fault Observation	Time	Picture
92.6	**SLIGHT STANDING WATER** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	40:04:04	
116.1	**Lateral Left** **Position: 10** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	50:06:06	
177.1	**Lateral Right** **Position: 2** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	73:33:32	

Distance	Fault Observation	Time	Picture
218.1	Lateral Left Position: 10 Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	90:51:51	
219.3	Roots in joint Position: 9 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	94:12:12	
285.0	Lateral Left Position: 10 Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	12:25:52	

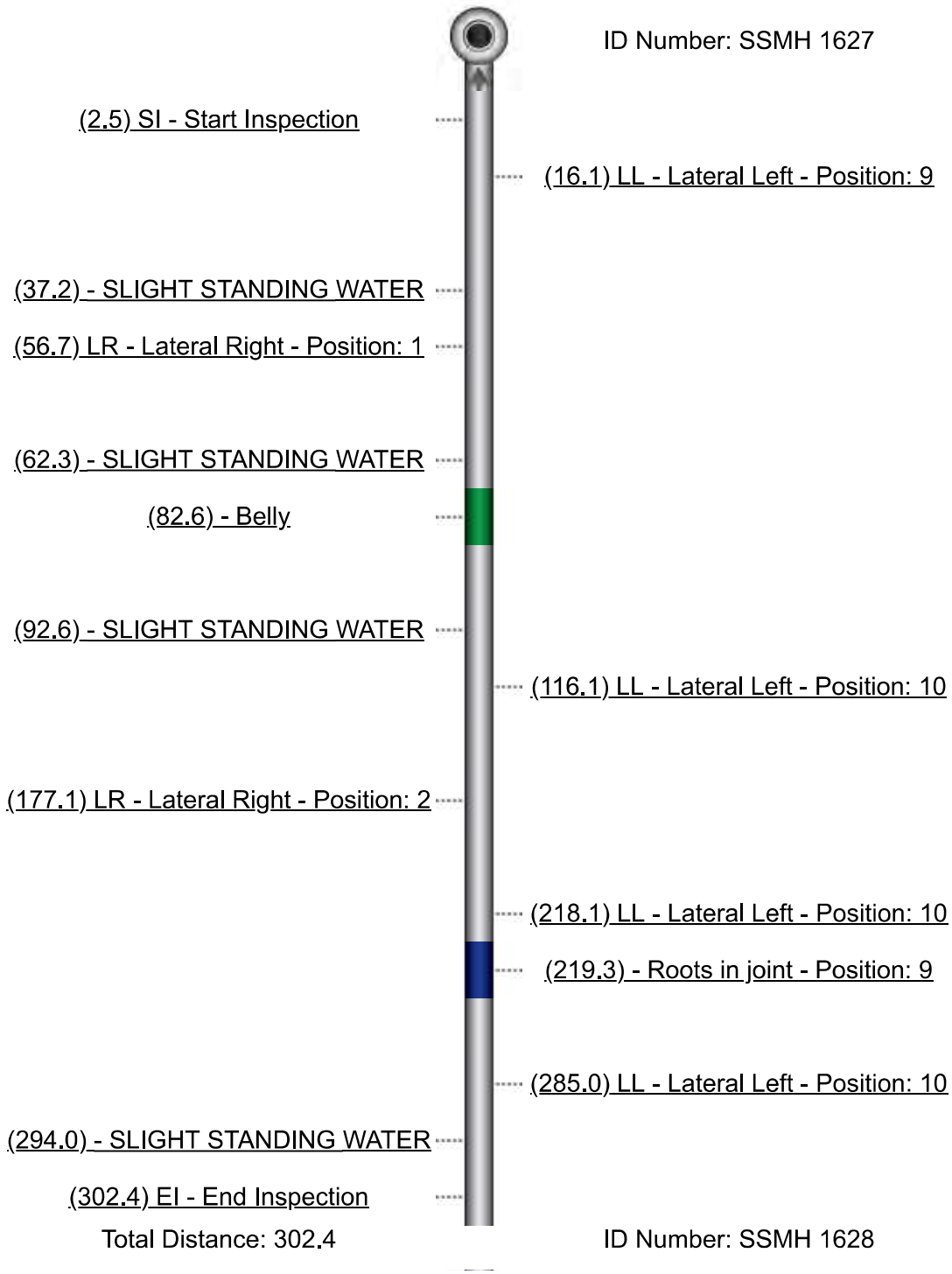
Distance	Fault Observation	Time	Picture
294.0	**SLIGHT STANDING WATER** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	11:50:30	
302.4	**End Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	12:23:30	

Created with the POSM report generator Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 2:51:00 PM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 1628
Length Surveyed: 302.4	**Downstream MH Number:** SSMH 1627
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

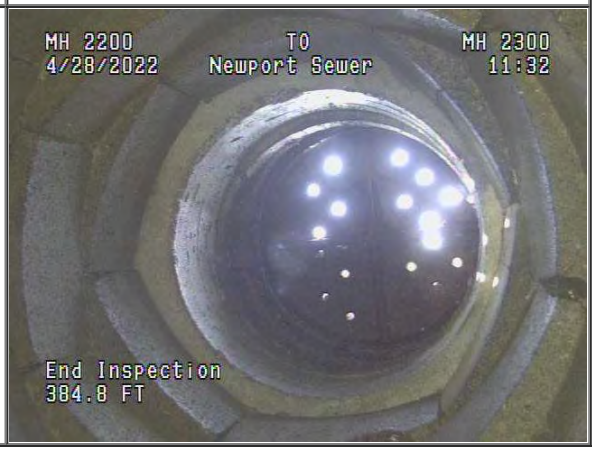


Created with the POSM report generator Back

POSM SOFTWARE

Project Name: Newport Sewer System	
Date: 4/28/2022 11:13:00 AM	**Asset ID:** SL 2300_2200
Location: Railroad	**Upstream MH Number:** 2300
Length Surveyed: 384.8	**Downstream MH Number:** 2200
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 15"	**Pipe Material:** Concrete Pipe (non-reinforced)

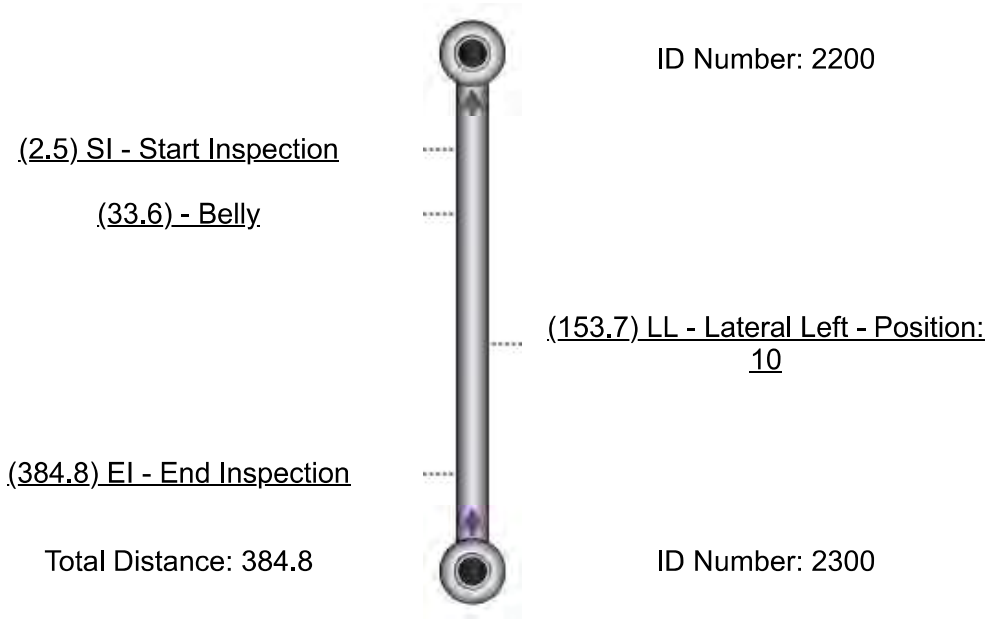
Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 2309351.51385773** **YCoord: 2378758.52239125** **ZCoord: 0**	26	
33.6	**Belly** **Severity: None** **XCoord: 2309359.51262508** **YCoord: 2378728.46861077** **ZCoord: 0**	02:07	
153.7	**Lateral Left** **Position: 10** **Severity: None** **XCoord: 2309390.4017556** **YCoord: 2378612.40883473** **ZCoord: 0**	07:41	

Distance	Fault Observation	Time	Picture
384.8	**End Inspection** **Severity: None** **XCoord: 2309449.83954129** **YCoord: 2378389.08315409** **ZCoord: 0**	19:00	

Created with the POSM report generator Back

Project Name: Newport Sewer System	
Date: 4/28/2022 11:13:00 AM	**Asset ID:** SL 2300_2200
Location: Railroad	**Upstream MH Number:** 2300
Length Surveyed: 384.8	**Downstream MH Number:** 2200
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 15"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe



Created with the **report generator** Back

Project Name: Newport Sewer System	
Date: 4/27/2022 12:52:00 PM	**Asset ID:** SL 2500_2400
Location: Alley btw 1st/Pine	**Upstream MH Number:** 2500
Length Surveyed: 340	**Downstream MH Number:** 2400
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 15	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: 2400

(2.5) SI - Start Inspection

(39.7) LR - Lateral Right - Position: 2

(114.9) - Belly

(340.0) EI - End Inspection

Total Distance: 340

ID Number: 2500

Created with the **report generator** Back

POSM SOFTWARE

Project Name: Newport Sewer System	
Date: 4/27/2022 12:52:00 PM	**Asset ID:** SL 2500_2400
Location: Alley btw 1st/Pine	**Upstream MH Number:** 2500
Length Surveyed: 340	**Downstream MH Number:** 2400
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 15	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 2309528.90106693** **YCoord: 2378080.43710617** **ZCoord: 0**	26	
39.7	**Lateral Right** **Position: 2** **Severity: None** **XCoord: 2309525.0351973** **YCoord: 2378043.43852442** **ZCoord: 0**	02:21	
114.9	**Belly** **Severity: None** **XCoord: 2309517.22032104** **YCoord: 2377968.64569248** **ZCoord: 0**	06:28	

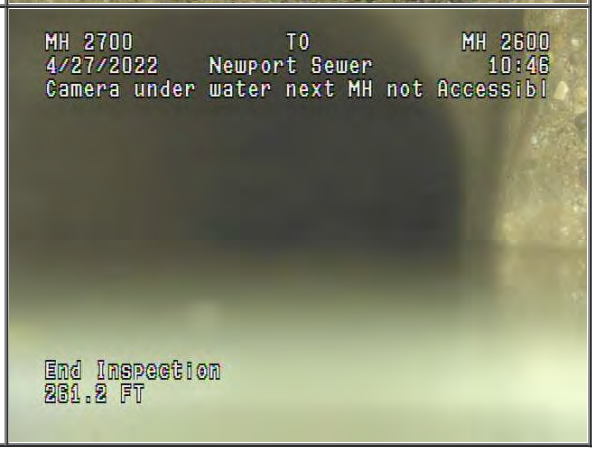
Distance	Fault Observation	Time	Picture
340.0	**End Inspection** **Severity: None** **XCoord: 2309493.82765289** **YCoord: 2377744.76448943** **ZCoord: 0**	21:13	

Created with the POSM report generator Back

POSM SOFTWARE

Project Name: Newport Sewer System	
Date: 4/27/2022 10:28:00 AM	**Asset ID:** SL 2700_2600
Location: Railroad	**Upstream MH Number:** 2700
Length Surveyed: 261.2	**Downstream MH Number:** 2600
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 15	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 2309536.67929505** **YCoord: 2377149.17700763** **ZCoord: 0**	26	
33.1	**Crack In Pipe** **Position: 2 To 4** **Severity: Light** **XCoord: 2309522.78169371** **YCoord: 2377176.43900823** **ZCoord: 0**	02:39	
91.0	**Lateral Left** **Position: 10** **Severity: None** **XCoord: 2309496.48525195** **YCoord: 2377228.02298977** **ZCoord: 0**	05:58	

Distance	Fault Observation	Time	Picture
215.1	Lateral Right Position: 1 Severity: None XCoord: 2309440.12275761 YCoord: 2377338.58554777 ZCoord: 0	12:06	
236.2	Lateral Right Position: 2 Severity: None XCoord: 2309430.53977106 YCoord: 2377357.38385537 ZCoord: 0	13:27	
261.2	End Inspection Severity: None XCoord: 2309419.1855216 YCoord: 2377379.65673168 ZCoord: 0 Remarks: Camera under water next MH not Accessible	18:16	

Created with the POSM report generator Back

POSM SOFTWARE

Project Name: Newport Sewer System	
Date: 4/27/2022 10:28:00 AM	**Asset ID:** SL 2700_2600
Location: Railroad	**Upstream MH Number:** 2700
Length Surveyed: 261.2	**Downstream MH Number:** 2600
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 15	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: 2700

(2.5) SI - Start Inspection

(33.1) - Crack In Pipe - Position: 2 To 4

(91.0) LL - Lateral Left - Position: 10

(215.1) LR - Lateral Right - Position: 1

(236.2) LR - Lateral Right - Position: 2

(261.2) EI - End Inspection Remark: Camera under water next MH not Accessible

Total Distance: 261.2

ID Number: 2600

Created with the POSM **report generator** Back

Project Name: Newport Sewer System

Date: 4/27/2022 8:56:00 AM	**Asset ID:** SL 2900_2800
Location: Union Ave	**Upstream MH Number:** 2900
Length Surveyed: 91.9	**Downstream MH Number:** 2800
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 15	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 2309307.59608859** **YCoord: 2376698.8496471** **ZCoord: 0**	**28**	
38.8	**Grease** **Position: 9** **Severity: Light** **XCoord: 2309330.62507846** **YCoord: 2376726.909505** **ZCoord: 0**	**07:45**	
91.9	**End Inspection at Debris** **Severity: None** **XCoord: 2309364.31211324** **YCoord: 2376767.95574341** **ZCoord: 0**	**16:02**	

Created with the **report generator** Back

Project Name: Newport Sewer System	
Date: 4/27/2022 8:56:00 AM	**Asset ID:** SL 2900_2800
Location: Union Ave	**Upstream MH Number:** 2900
Length Surveyed: 91.9	**Downstream MH Number:** 2800
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 15	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: 2900

(2.5) SI - Start Inspection

(38.8) G - Grease - Position: 9

(91.9) EI - End Inspection at Debris

Total Distance: 91.9

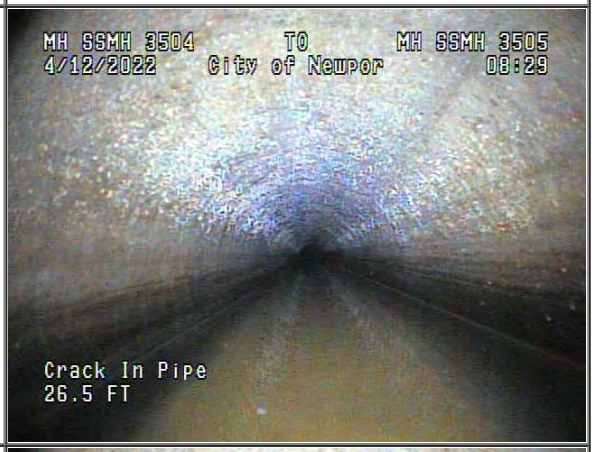
ID Number: 2800

Created with the **report generator** Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 8:24:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 3505
Length Surveyed: 321	**Downstream MH Number:** SSMH 3504
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 6"	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
1.0	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	26:09:39	
14.0	**Standing water** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	14:33:33	
26.3	**GASKET VISABLE?** **Position: 3** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	24:16:16	

Distance	Fault Observation	Time	Picture
26.5	Crack In Pipe Position: 2 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	27:08:08	
94.6	GASKET VISABLE Position: 1 To 2 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	58:38:38	
104.4	GASKET VISABLE Position: 10 To 11 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	64:17:17	

Distance	Fault Observation	Time	Picture
182.4	**GASKET VISABLE** **Position: 7 To 5** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	11:24:46	
202.2	**GASKET VISABLE** **Position: 6 To 4** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	11:53:37	
251.2	**GASKET VISABLE** **Position: 6 To 5** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	13:31:13	

Distance	Fault Observation	Time	Picture
321.0	**End Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	18:20:33	

Created with the POSM **report generator** Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 8:24:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 3505
Length Surveyed: 321	**Downstream MH Number:** SSMH 3504
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 6"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: SSMH 3504

(1.0) SI - Start Inspection

(14.0) - Standing water

(26.3) - GASKET VISABLE? - Position: 3

(26.5) - Crack In Pipe - Position: 2

(94.6) - GASKET VISABLE - Position: 1 To 2

(104.4) - GASKET VISABLE - Position: 10 To 11

(182.4) - GASKET VISABLE - Position: 7 To 5

(202.2) - GASKET VISABLE - Position: 6 To 4

(251.2) - GASKET VISABLE - Position: 6 To 5

(321.0) EI - End Inspection

Total Distance: 321

ID Number: SSMH 3505

Created with the POSM **report generator** Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 9:34:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 3507
Length Surveyed: 211.9	**Downstream MH Number:** SSMH 3506
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 6"	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
1.0	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	**28:10:09**	
2.7	**Change to PVC** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	**91:02:01**	
100.5	**Slight Oval Shape** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	**65:38:37**	

Distance	Fault Observation	Time	Picture
161.9	**SLIGHT STANDING WATER** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	11:14:43	
196.5	**Grease** **Position: 12** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	24:28:19	
211.9	**End Inspection No Tracion** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	41:49:22	

Created with the POSM **report generator** Back

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 9:34:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 3507
Length Surveyed: 211.9	**Downstream MH Number:** SSMH 3506
Run Number:	**Direction Of Survey:** Upstream
Pipe Size: 6"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: SSMH 3506

(1.0) SI - Start Inspection

(2.7) - Change to PVC

(100.5) - Slight Oval Shape

(161.9) - SLIGHT STANDING WATER

(196.5) G - Grease - Position: 12

(211.9) EI - End Inspection No Tracion

Total Distance: 211.9

ID Number: SSMH 3507

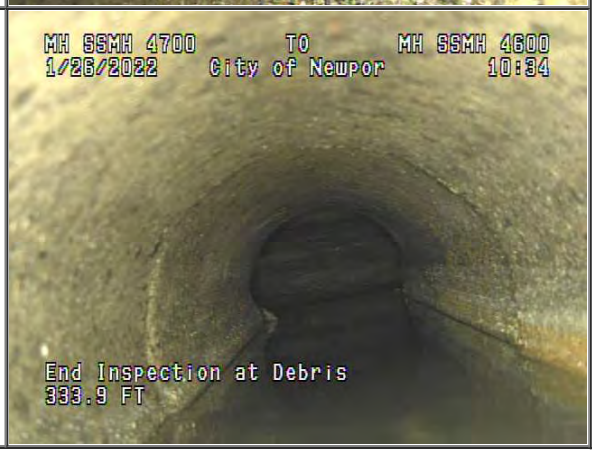
Created with the **report generator** Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 1/26/2022 10:07:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 4700
Length Surveyed: 333.9	**Downstream MH Number:** SSMH 4600
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	26:10:29	
123.0	**Crack In Pipe** **Position: 12** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	40:24:23	
260.9	**Lateral Left capped** **Position: 9** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	78:32:32	

Distance	Fault Observation	Time	Picture
260.9	**Roots** **Position: 9** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	80:21:21	
262.2	**Crack In Pipe** **Position: 8** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	85:13:12	
269.4	**Broken/Repair** **Position: 12** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	90:01:01	

Distance	Fault Observation	Time	Picture
276.0	Broken/Repair Position: 12 Severity: Moderate XCoord: 0 YCoord: 0 ZCoord: 0	95:26:26	
311.8	Crack In Pipe Position: 12 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	11:09:29	
333.9	End Inspection at Debris Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	16:13:30	

Created with the POSM report generator Back

Project Name: City of Newport Master Sewer Plan	
Date: 1/26/2022 10:07:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 4700
Length Surveyed: 333.9	**Downstream MH Number:** SSMH 4600
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: SSMH 4700

(2.5) SI - Start Inspection

(123.0) - Crack In Pipe - Position: 12

(260.9) LL - Lateral Left capped - Position: 9

(260.9) R - Roots - Position: 9

(262.2) - Crack In Pipe - Position: 8

(269.4) B - Broken/Repair - Position: 12

(276.0) B - Broken/Repair - Position: 12

(311.8) - Crack In Pipe - Position: 12

(333.9) EI - End Inspection at Debris

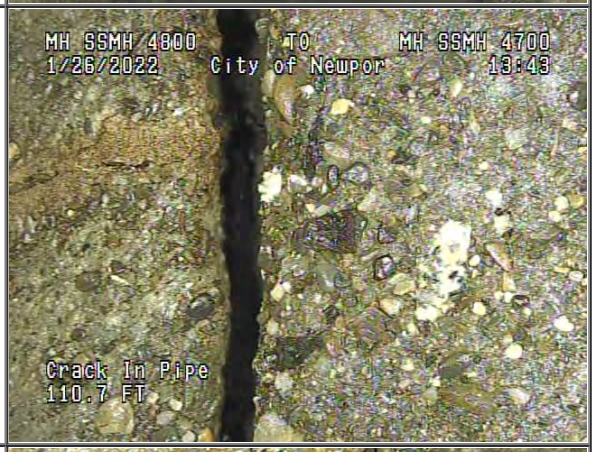
Total Distance: 333.9

ID Number: SSMH 4600

Created with the **report generator** Back

POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 1/26/2022 1:36:00 PM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 4800
Length Surveyed: 337.8	**Downstream MH Number:** SSMH 4700
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	26:07:06	
110.7	**Crack In Pipe** **Position: 12** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	39:06:05	
116.3	**Crack In Pipe** **Position: 10** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	44:17:17	

Distance	Fault Observation	Time	Picture
154.1	GROUT Position: 4 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	59:13:12	
337.8	End Inspection Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	11:13:31	

Created with the POSM report generator Back

Project Name: City of Newport Master Sewer Plan	
Date: 1/26/2022 1:36:00 PM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 4800
Length Surveyed: 337.8	**Downstream MH Number:** SSMH 4700
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: SSMH 4800

(2.5) SI - Start Inspection

(110.7) - Crack In Pipe - Position: 12

(116.3) - Crack In Pipe - Position: 10

(154.1) - GROUT - Position: 4

(337.8) EI - End Inspection

Total Distance: 337.8

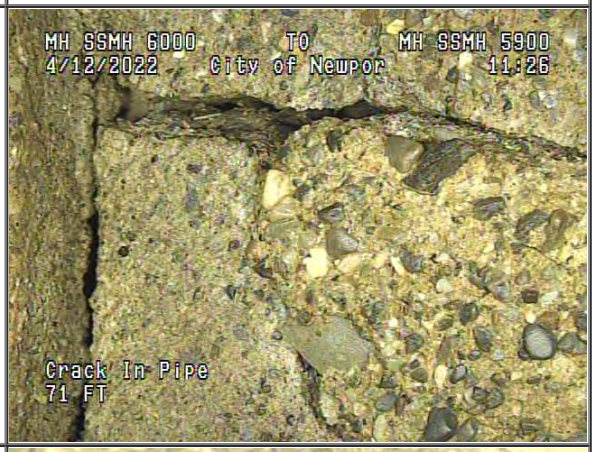
ID Number: SSMH 4700

Created with the **report generator** Back

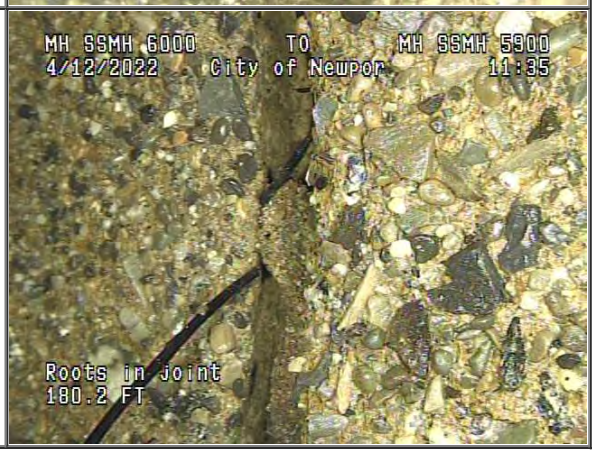
POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 11:20:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 6000
Length Surveyed: 335.3	**Downstream MH Number:** SSMH 5900
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

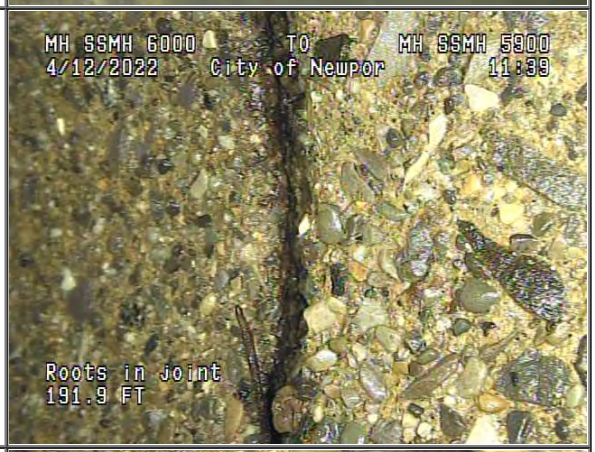
Distance	Fault Observation	Time	Picture
2.5	**Start Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	25:03:22	
15.6	**Crack In Pipe** **Position: 4** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	91:06:25	
53.3	**Roots in joint** **Position: 6** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	24:54:54	

Distance	Fault Observation	Time	Picture
71.0	**Crack In Pipe** **Position: 6 To 10** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	36:30:29	
74.8	**Lateral Right** **Position: 3** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	42:45:45	
77.7	**Lateral Left** **Position: 9** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	46:33:32	

Distance	Fault Observation	Time	Picture
79.4	**Lateral Left** **Position: 10** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	49:06:05	
111.5	**Lateral Left** **Position: 10** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	60:07:06	
126.3	**Lateral Left** **Position: 9** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	65:59:59	

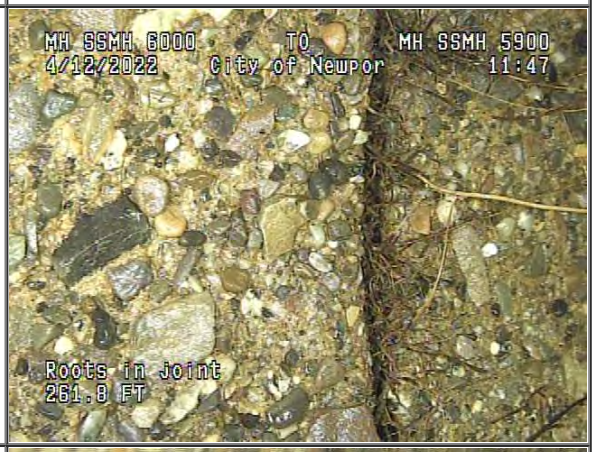
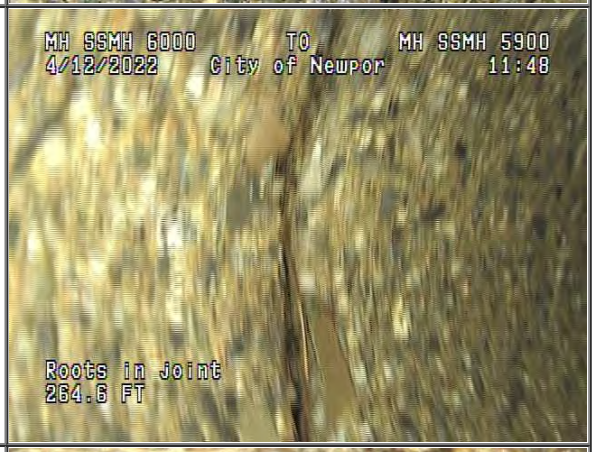
Distance	Fault Observation	Time	Picture
152.4	**Lateral Left capped** **Position: 9** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	79:02:01	
161.0	**Lateral Right** **Position: 2** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	83:50:50	
180.2	**Roots in joint** **Position: 1** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	92:55:55	

Distance	Fault Observation	Time	Picture
187.3	**Lateral Right capped** **Position: 2** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	98:32:32	
187.3	**Roots in lateral right** **Position: 12 To 6** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	10:29:21	
189.0	**Roots in joint** **Position: 8 To 4** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	11:37:01	

Distance	Fault Observation	Time	Picture
189.0	Crack In Pipe Position: 7 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	12:37:01	
191.9	Roots in joint Position: 3 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	11:10:39	
200.8	Roots in joint Position: 4 To 2 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	13:15:57	

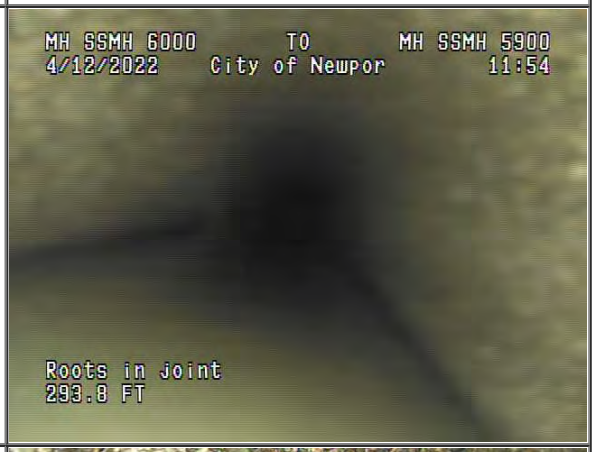
Distance	Fault Observation	Time	Picture
203.6	Roots in joint Position: 4 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	13:33:39	
206.7	Roots in joint Position: 4 To 1 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	13:40:30	
216.6	Lateral Left Position: 10 Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	13:07:03	

Distance	Fault Observation	Time	Picture
216.6	**Roots in lateral left** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	15:04:46	
237.1	**SLIGHT STANDING WATER** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	15:05:58	
246.9	**Roots in joint** **Position: 12 To 8** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	15:27:06	

Distance	Fault Observation	Time	Picture
261.8	Roots in joint Position: 8 To 3 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	16:52:27	
264.6	Roots in joint Position: 2 To 9 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	16:47:03	
265.9	Lateral Right Position: 2 Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	17:57:03	

Distance	Fault Observation	Time	Picture
265.9	Roots in lateral right Position: 2 Severity: Heavy XCoord: 0 YCoord: 0 ZCoord: 0	17:35:50	
267.3	Roots in joint Position: 9 To 3 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	18:53:37	
281.9	Roots in joint Position: 9 To 3 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	18:27:01	

Distance	Fault Observation	Time	Picture
287.8	Roots in joint Position: 8 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	19:24:43	
292.2	Lateral Left capped? Position: 10 Severity: None XCoord: 0 YCoord: 0 ZCoord: 0	19:13:39	
292.2	Roots in lateral left Severity: Heavy XCoord: 0 YCoord: 0 ZCoord: 0	20:27:05	

Distance	Fault Observation	Time	Picture
293.8	**Roots in joint** **Position: 9 To 3** **Severity: Moderate** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	20:39:22	
293.8	**Crack In Pipe** **Position: 8** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	21:15:54	
299.2	**SLIGHT STANDING WATER** **Severity: Light** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	22:27:05	

Distance	Fault Observation	Time	Picture
305.3	Roots in joint Position: 9 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	22:29:27	
308.2	Roots in joint Position: 9 To 3 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	22:37:07	
311.0	Roots in joint Position: 10 Severity: Light XCoord: 0 YCoord: 0 ZCoord: 0	23:04:49	

Distance	Fault Observation	Time	Picture
335.3	**End Inspection** **Severity: None** **XCoord: 0** **YCoord: 0** **ZCoord: 0**	24:27:04	

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POSM SOFTWARE

Project Name: City of Newport Master Sewer Plan	
Date: 4/12/2022 11:20:00 AM	**Asset ID:**
Location: Newport, Wa.	**Upstream MH Number:** SSMH 6000
Length Surveyed: 335.3	**Downstream MH Number:** SSMH 5900
Run Number:	**Direction Of Survey:** Downstream
Pipe Size: 8"	**Pipe Material:** Concrete Pipe (non-reinforced)

Severity
Light
Moderate
Average
Heavy
Severe

ID Number: SSMH 6000

(2.5) SI - Start Inspection

(15.6) - Crack In Pipe - Position: 4

(53.3) - Roots in joint - Position: 6

(71.0) - Crack In Pipe - Position: 6 To 10

(74.8) LR - Lateral Right - Position: 3

(77.7) LL - Lateral Left - Position: 9

(79.4) LL - Lateral Left - Position: 10

(111.5) LL - Lateral Left - Position: 10

(126.3) LL - Lateral Left - Position: 9

(152.4) LL - Lateral Left capped - Position: 9

(161.0) LR - Lateral Right - Position: 2

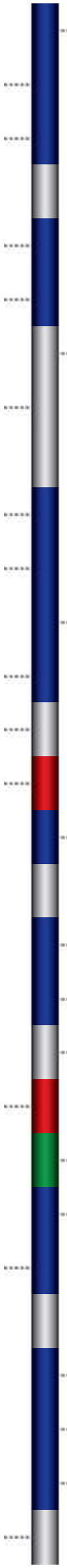
(180.2) - Roots in joint - Position: 1

(187.3) LR - Lateral Right capped - Position: 2

(187.3) - Roots in lateral right - Position: 12 To 6

(189.0) - Roots in joint - Position: 8 To 4

(189.0) - Crack In Pipe - Position: 7



(191.9) - Roots in joint - Position: 3

(200.8) - Roots in joint - Position: 4 To 2

(203.6) - Roots in joint - Position: 4

(206.7) - Roots in joint - Position: 4 To 1

(216.6) LL - Lateral Left - Position: 10

(216.6) - Roots in lateral left

(237.1) - SLIGHT STANDING WATER

(246.9) - Roots in joint - Position: 12 To 8

(261.8) - Roots in joint - Position: 8 To 3

(264.6) - Roots in joint - Position: 2 To 9

(265.9) LR - Lateral Right - Position: 2

(265.9) - Roots in lateral right - Position: 2

(267.3) - Roots in joint - Position: 9 To 3

(281.9) - Roots in joint - Position: 9 To 3

(287.8) - Roots in joint - Position: 8

(292.2) LL - Lateral Left capped? - Position: 10

(292.2) - Roots in lateral left

(293.8) - Roots in joint - Position: 9 To 3

(293.8) - Crack In Pipe - Position: 8

(299.2) - SLIGHT STANDING WATER

(305.3) - Roots in joint - Position: 9

(308.2) - Roots in joint - Position: 9 To 3

(311.0) - Roots in joint - Position: 10

(335.3) EI - End Inspection

Total Distance: 335.3

ID Number: SSMH 5900

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