

Sample 3

Work Order & Project:	401711-37638 4-26 NUTT ST, NAS, BUCHANAN ST & FAXON ST
Sample Location:	Buchanan St Near Intersection with Main St
Pipe Sample Details:	2" Bare Steel, Standard Wall (0.154"), Low Pressure, Installed in 1924
Soil Sample Details:	Dark Reddish Sandy Soil
Test Date:	3/2/2018

Soil Testing Results

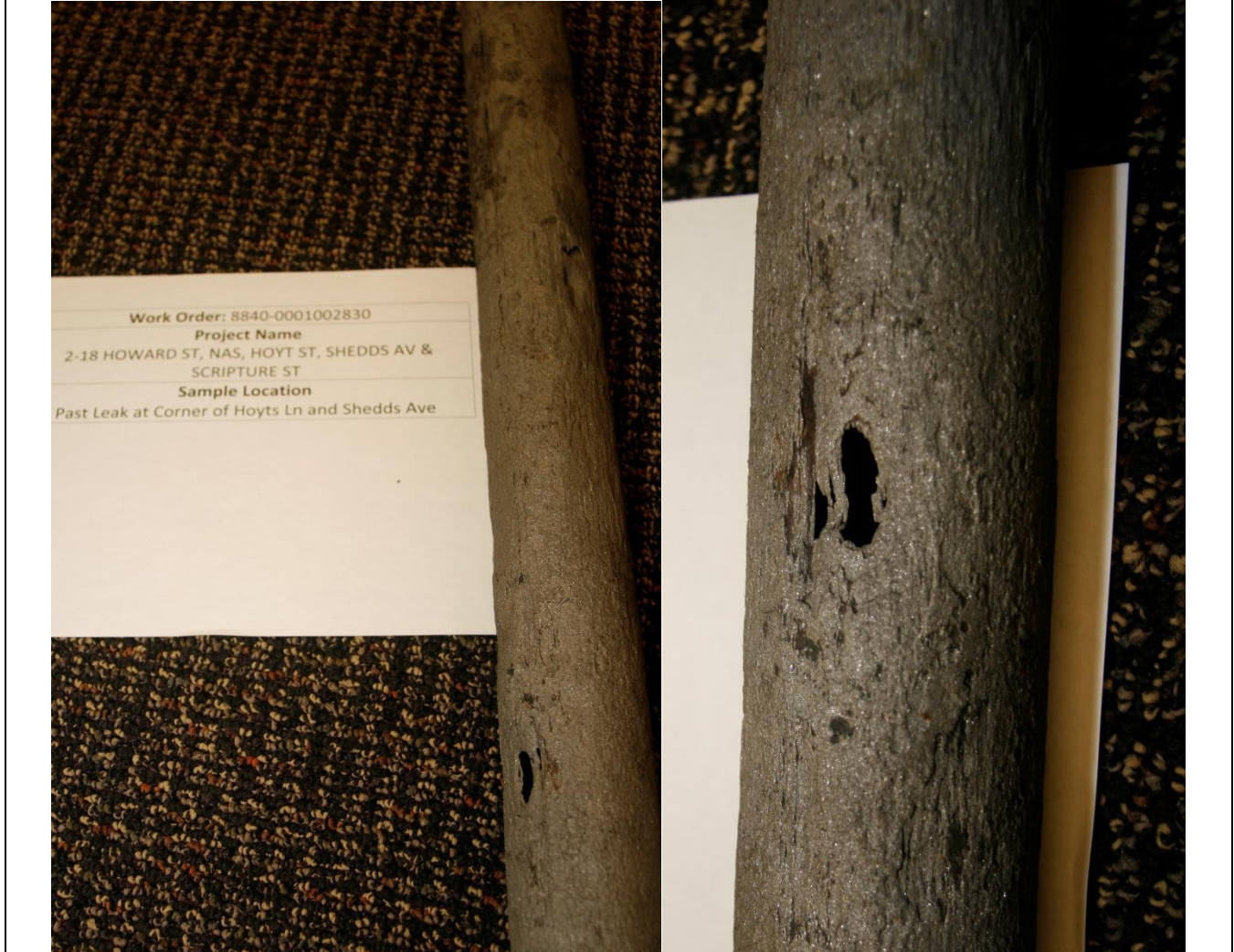
	Quantitative Value	Qualitative Value
pH:	6	-
Chloride (mg/l):	0	None
Sulfide (mg/l):	< 5	Not Appreciably Present
Sulfate (mg/l):	<200	Low
APB Level (Colonies/ml):	100	Medium
SRB Level (Colonies/ml):	<10	Low

Sample Condition: Heavy corrosion pitting over entire pipe, 100% wall loss in pits.



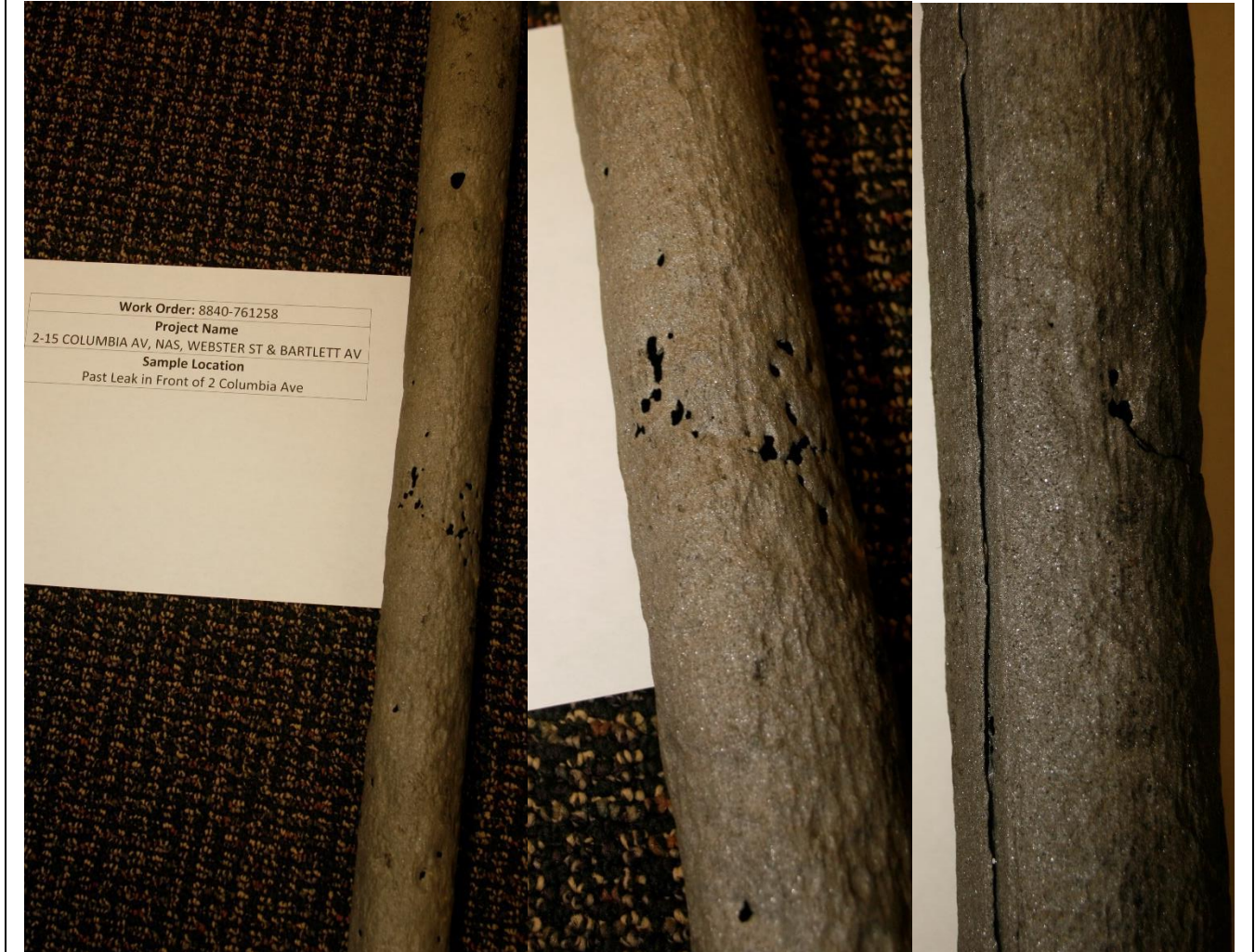
Sample 2

Work Order & Project:	8840-0001002830 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST	
Sample Location:	Past Leak at Corner of Hoyts Ln and Shedds Ave	
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pressure, Installed in 1912	
Soil Sample Details:	Medium Brown Sandy Soil	
Test Date:	6/22/2016	
<u>Soil Testing Results</u>		
	Quantitative Value	Qualitative Value
pH:	6	-
Chloride (mg/l):	0	None
Sulfide (mg/l):	< 5	Not Appreciably Present
Sulfate (mg/l):	200-400	Low
APB Level (Colonies/ml):	Unable to Obtain, Error with Testing Kit	
SRB Level (Colonies/ml):	Unable to Obtain, Error with Testing Kit	
Sample Condition:	Generalized corrosion pitting with multiple areas of 100% wall loss.	



Sample 3

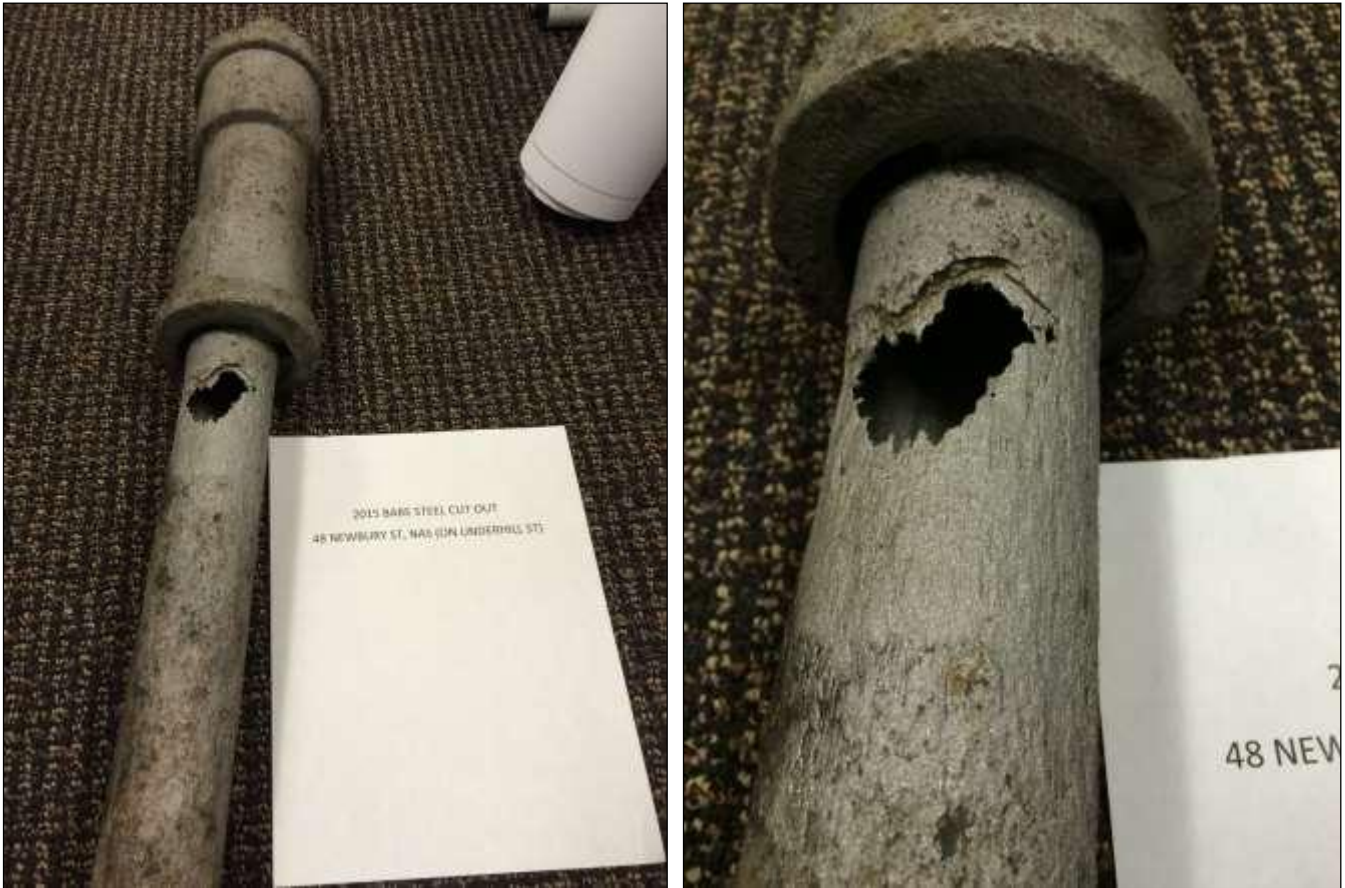
Work Order & Project:	8840-761258 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV	
Sample Location:	Past Leak in Front of 2 Columbia Ave	
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pressure, Installed in 1915	
Soil Sample Details:	Medium Brown Sandy Soil	
Test Date:	2/2/2017	
<u>Soil Testing Results</u>		
	Quantitative Value	Qualitative Value
pH:	6	-
Chloride (mg/l):	0	None
Sulfide (mg/l):	< 5	Not Appreciably Present
Sulfate (mg/l):	400	Low-Medium
APB Level (Colonies/ml):	10,000	High
SRB Level (Colonies/ml):	10	Low
Sample Condition: Widespread generalized wall loss, multiple areas of 100% wall loss, split long seam.		



Sample 6

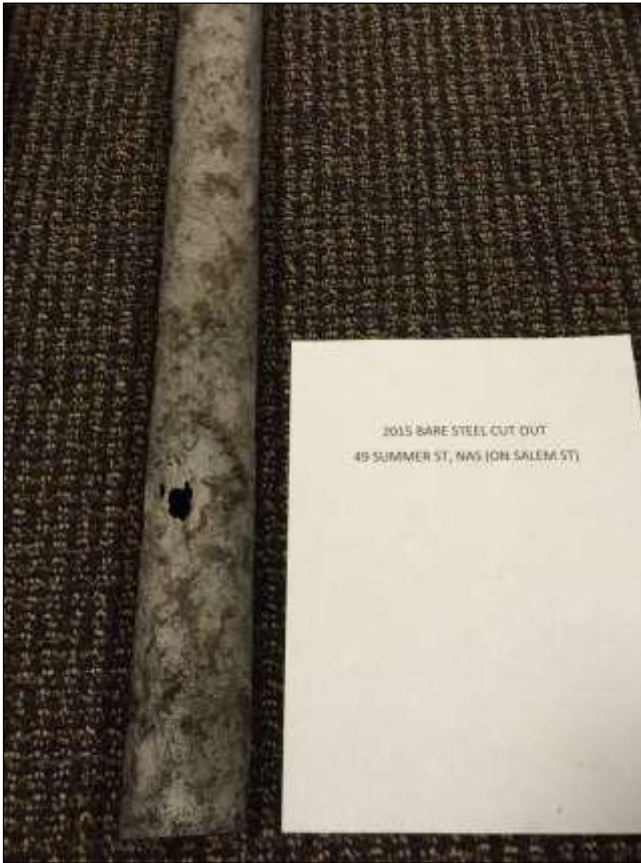
Work Order & Project:	8840-0001006605 2-16 STEVENS ST, NAS	
Sample Location:	Past Leak at Intersection of Stevens St and Morton St	
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pressure, Installed in	
Soil Sample Details:	Light Brown Sandy Soil	
Test Date:	2/17/2017	
Soil Testing Results		
	Quantitative Value	Qualitative Value
pH:	7	-
Chloride (mg/l):	0	None
Sulfide (mg/l):	< 5	Not Appreciably Present
Sulfate (mg/l):	< 200	Low
APB Level (Colonies/ml):	100,000	High
SRB Level (Colonies/ml):	100,000	High
Sample Condition: Widespread generalized corrosion with large areas of 100% wall loss.		





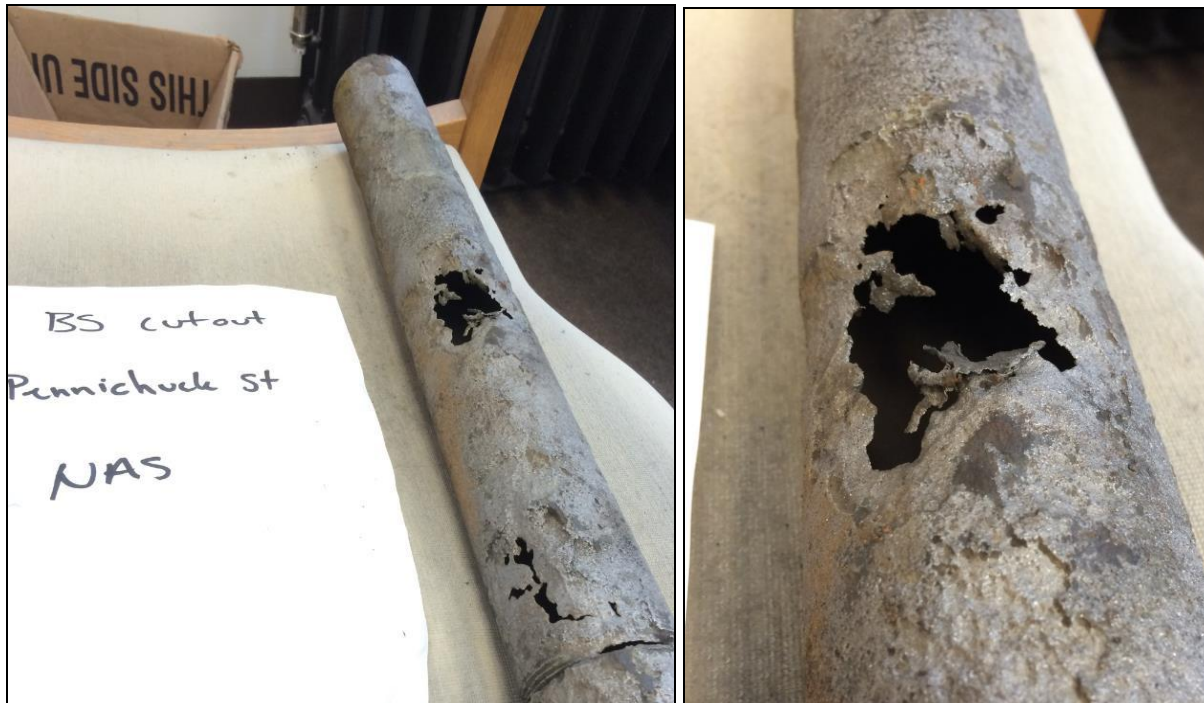
(2) **49 SUMMER ST (ON SALEM ST), NASHUA – WO# 8840-791898** – 2 inch bare steel (1924), low pressure (LP) – 0.218” wall thickness.

- A soil sample was taken and analyzed. Chemical and microbiological testing was performed on 10/15/2015. The pH was measured to be 6.0 or neutral. Testing for chlorides was negative. Presence of sulfide tested negative (<5 mg/l) and sulfate levels measured 400 mg/l or in the low-medium range. The APB testing produced a reading of 100,000 bacteria colonies per ML or a high level of bacteria. The testing for SRB produced a reading of 1,000 bacteria colonies per ML or a medium level of bacteria. The soil was observed to be a dark brown color, sandy with some odor.
- The pipe sample was observed to be in very poor condition. The sample has deep pitting and multiple locations of small holes with 100% wall loss on the exposed steel.
- The following pictures were taken:



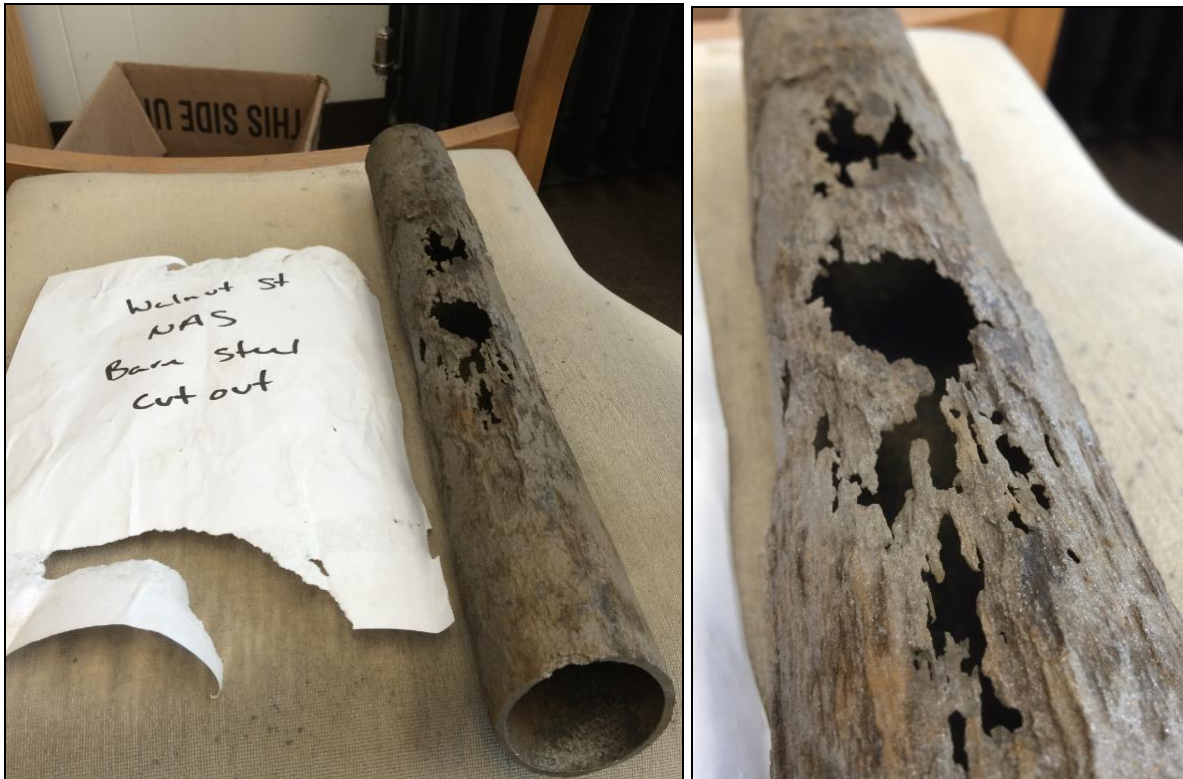
large holes with 100% wall loss on the exposed steel.

- The following pictures were taken:



(2) **90 Dodge St, Nashua – WO# 8840-0001001269** – 2 inch bare steel (1959), low pressure (LP) – 0.160” wall thickness.

- A soil sample was taken and analyzed. Chemical and microbiological testing was performed on 9/02/2014. The pH was measured to be 6.0 or neutral. Testing for chlorides was negative. Presence of sulfide tested negative (<5 mg/l) and sulfate levels measured 400 mg/l or in the low-medium range. The APB testing produced a reading of 100,000 bacteria colonies per ML or a high level of bacteria. The testing for SRB produced a reading of 100 bacteria colonies per ML or a medium level of bacteria. The soil was observed to be a brown color, sandy with some stones and had a slight odor.
- The pipe sample was observed to be in very poor condition. Multiple locations of small holes with 100% wall loss on the exposed steel.
- The following pictures were taken:



- (4) **57 Spalding St, Nashua – WO# 8840-0001000431** – 2 inch bare steel (1956), low pressure (LP) – 0.139” wall thickness.
- A soil sample was taken and analyzed. Chemical and microbiological testing was performed on 10/09/2014. The pH was measured to be 6.0 or neutral. Testing for chlorides was negative. Presence of sulfide tested negative (<5 mg/l) and sulfate levels measured 400 mg/l or in the low-medium range. The APB testing produced a reading of 1,000 bacteria colonies per ML or a medium level of bacteria. The testing for SRB produced a reading of <10 bacteria colonies per ML or a low level of bacteria. The soil was observed to be a brown color, sandy with some stones and had a slight odor.
 - The pipe sample was observed to be in very poor condition. Multiple locations of large and small holes with 100% wall loss on the exposed steel.
 - The following pictures were taken:



(5) **95 Shaker Rd, Concord (Shaker Rd School) – WO# 8840-0001001106** – 1 inch bare steel (YOI Unknown), 60 psig pressure – 0.133” wall thickness.

- A soil sample was taken and analyzed. Chemical and microbiological testing was performed on 11/18/2014. The pH was measured to be 6.0 or neutral. Testing for chlorides was negative. Presence of sulfide tested negative (<5 mg/l) and sulfate levels measured 400 mg/l or in the low-medium range. The APB testing produced a reading of 100,000 bacteria colonies per ML or a high level of bacteria. The testing for SRB produced a reading of 1,000 bacteria colonies per ML or a medium level of bacteria. The soil was observed to be a brown color, moist sand and odorless.
- The pipe sample was observed to be in fair condition with minor pitting. The deepest pit was measured 0.036” or 27% wall loss.
- The following pictures were taken:

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Fiscal Year 2019 Cast Iron/Bare Steel Replacement Program
Computation of Revenue Requirement

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	
	Actual	July 1, 2009 through March 31, 2010 9 Months FY10	Actual FY11	Actual FY12	Actual FY13	Actual FY14	Actual FY15	Actual FY16	Actual FY17	Actual FY18	Estimate FY19	Estimate FY20	
Incremental Investment													
1	CIBS Program Actual Spend-Mains	1,736,153	4,049,995	3,391,069	1,570,208	2,174,813	2,781,140	3,006,856	3,304,532	5,204,619	8,858,559	-	-
2	CIBS Program Actual Spend-Service	729,463	798,555	668,631	352,005	161,352	370,655	776,086	705,984	1,209,322	1,389,222	-	-
3	CIBS Program Estimated Spend-Mains					-	-	-	-	-	-	11,118,115	16,302,661
4	CIBS Program Estimated Spend-Service					-	-	-	-	-	-	1,429,561	2,876,940
5	Base Spending Amount	500,000	482,110	500,000	500,000	500,000	506,240	514,244	520,965	527,275	534,484	534,484	
6	Incremental Amount	1,965,616	4,366,440	3,559,700	1,422,213	1,836,165	2,651,795	3,276,702	3,496,272	5,892,976	9,720,506	12,013,192	18,645,117
7	Cumulative CIBS Program Spend Since July 1, 2009		4,366,440	7,926,140	9,348,353	11,184,518	13,836,312	17,113,015	20,609,287	26,502,263	36,222,769	48,235,961	66,881,078
8													
9	Deferred Tax Calculation												
10	Annual Tax Depreciation	1,031,948	4,366,440	3,559,700	1,422,213	1,836,165	2,651,795	3,276,702	3,496,272	5,892,976	9,720,506	12,013,192	18,645,117
11	Cumulative Tax Depreciation Since July 1, 2009		4,366,440	7,926,140	9,348,353	11,184,518	13,836,312	17,113,015	20,609,287	26,502,263	36,222,769	48,235,961	66,881,078
12													
13	Annual Book Depreciation	49,836	98,794	179,335	212,059	249,951	307,352	384,247	464,177	600,433	814,476	1,003,569	1,490,157
14	Cumulative Book Depreciation Since July 1, 2009		98,794	278,129	490,188	740,138	1,047,490	1,431,737	1,895,914	2,496,347	3,310,822	4,314,391	5,804,549
15													
16	Annual Book/Tax Timer	982,112	4,267,646	3,380,365	1,210,154	1,586,614	2,344,443	2,892,456	3,032,095	5,292,543	8,906,031	11,009,623	17,154,960
17	Cumulative Book/Tax Timer	982,112	4,267,646	7,648,011	8,858,165	10,444,379	12,788,822	15,681,278	18,713,373	24,005,916	32,911,947	43,921,570	61,076,530
18	Statutory Tax Rate	40.53%	40.53%	40.53%	40.53%	40.53%	39.61%	39.61%	39.61%	39.61%	27.24%	27.08%	27.08%
19													
20	Deferred Tax Reserve	398,001	1,729,677	3,099,739	3,590,214	4,233,107	5,161,741	6,211,354	7,412,367	9,508,743	11,934,746	11,946,620	13,610,778
21													
22	Rate Base Calculation												
23	Plant In Service	1,965,616	4,366,440	7,926,140	9,348,353	11,184,518	13,836,312	17,113,015	20,609,287	26,502,263	36,222,769	48,235,961	66,881,078
24	Accumulated Depreciation	(49,836)	(98,794)	(278,129)	(490,188)	(740,138)	(1,047,490)	(1,431,737)	(1,895,914)	(2,496,347)	(3,310,822)	(4,314,391)	(5,804,549)
25	Net Plant in Service	1,915,780	4,267,646	7,648,011	8,858,166	10,444,379	12,788,822	15,681,278	18,713,373	24,005,916	32,911,946	43,921,569	61,076,529
26	Deferred Tax Reserve	(398,001)	(1,729,677)	(3,099,739)	(3,590,214)	(4,233,107)	(5,161,741)	(6,211,354)	(7,412,367)	(9,508,743)	(11,934,746)	(11,946,620)	(13,610,778)
27	Year End Rate Base	1,517,779	2,537,969	4,548,272	5,267,951	6,211,273	7,627,082	9,469,924	11,301,006	14,497,173	20,977,200	31,974,949	47,465,752
28													
29	Revenue Requirement Calculation												
30	Year End Rate Base	1,517,779	2,537,969	4,548,272	5,267,951	6,211,273	7,627,082	9,469,924	11,301,006	14,497,173	20,977,200	31,974,949	47,465,752
31	Pre-Tax ROR	11.53%	11.53%	11.63%	11.63%	11.63%	11.50%	10.22%	9.87%	9.87%	8.51%	8.50%	8.50%
32	Return and Taxes	175,003	292,628	528,964	612,663	722,371	877,114	967,826	1,115,409	1,430,871	1,785,160	2,717,871	4,034,589
33	Book Depreciation	49,836	98,794	179,335	212,059	249,951	307,352	384,247	464,177	600,433	814,476	1,003,569	1,490,157
34	Property Taxes 2.80%	37,347	88,340	194,259	231,198	241,265	359,366	503,369	490,290	727,379	921,535	1,229,804	1,710,143
35	Annual Revenue Requirement	262,185	479,762	902,558	1,055,920	1,213,587	1,543,832	1,855,442	2,069,876	2,758,683	3,521,171	4,951,244	7,234,889
36													
37	Prior Year Annual Revenue Requirement	-	-	479,762	902,558	1,055,920	1,213,587	1,543,832	1,855,442	2,069,876	2,758,683	3,521,171	4,951,244
38													
39	Incremental Annual Rate Adjustment	262,185	479,762	422,796	153,362	157,667	330,245	311,610	214,434	688,807	762,488	1,422,784	2,283,645
40													
46													
47													
48	Actual Capital Structure/ROR												
49													
50													
51													
52													
53		Ratio	Rate										
54	Long Term Debt	49.85%	4.42%	2.200%									
55	Short Term Debt	0.95%	2.49%	0.02%									
56	Common Equity	49.20%	9.30%	6.280%									
57													
58		100.00%		8.500%									

39(k) includes a low income revenue correction from FY 18 of (\$7,290) = (\$6,911 plus interest)

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Fiscal Year 2019 Cast Iron/Bare Steel Replacement Program
Vintage Year Book Depreciation Schedule

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	
	Actual	July 1, 2009 thru March 31, 2010 9 Months FY10	Actual FY11	Actual FY12	Actual FY13	Actual FY14	Actual FY15	Actual FY16	Actual FY17	Actual FY18	Estimate FY19	Estimate FY20	
Book Depreciation Schedule-Mains													
1	Actual CIBS spending	1,736,153	4,049,995	3,391,069	1,570,208	2,174,813	2,781,140	3,006,856	3,304,532	5,204,619	8,858,559	11,118,115	16,302,661
2	Base spending	(352,073)	(402,707)	(417,650)	(408,438)	(465,466)	(441,199)	(402,383)	(423,720)	(422,739)	(455,796)	(473,590)	(473,590)
3	Incremental CIBS spending	1,384,080	3,647,288	2,973,419	1,161,770	1,709,346	2,339,940	2,604,473	2,880,812	4,781,880	8,402,763	10,644,525	15,829,071
4													
5	Book Depreciation Rate:												
6	Year 1	2.54%	35,065	0	0	0	0	0	0	0	0	0	0
7	Year 1 beginning in FY10	1.92%		70,028	57,090	22,306	32,819	44,927	50,006	55,312	91,812	161,333	204,375
8	Year 2	1.92%			70,028	57,090	22,306	32,819	44,927	50,006	55,312	91,812	161,333
9	Year 3	1.92%				70,028	57,090	22,306	32,819	44,927	50,006	55,312	91,812
10	Year 4	1.92%					70,028	57,090	22,306	32,819	44,927	50,006	55,312
11	Year 5	1.92%						70,028	57,090	22,306	32,819	44,927	50,006
12	Year 6	1.92%							70,028	57,090	22,306	32,819	44,927
13	Year 7	1.92%								70,028	57,090	22,306	32,819
14	Year 8	1.92%									70,028	57,090	22,306
15	Year 9	1.92%										70,028	57,090
16	Year 10	1.92%											70,028
17	Year 11	1.92%											70,028
18	Book Depreciation Expense-Mains	35,065	70,028	127,118	149,424	182,243	227,170	277,176	332,487	424,299	585,632	719,979	1,093,926
19													
20	Accumulated Depreciation Mains-Beginning of Year	-	-	70,028	197,146	346,570	528,813	755,982	1,033,158	1,365,646	1,789,945	2,375,577	3,095,557
21	Accumulated Depreciation Mains-End of Year	35,065	70,028	197,146	346,570	528,813	755,982	1,033,158	1,365,646	1,789,945	2,375,577	3,095,557	4,189,482
22													
23													
24	Book Depreciation Schedule-Services												
25													
26	Actual CIBS spending	729,463	798,555	668,631	352,005	161,352	370,655	776,086	705,984	1,209,322	1,389,222	1,429,561	2,876,940
27	Base spending	(147,927)	(79,403)	(82,350)	(91,562)	(34,534)	(58,801)	(103,857)	(90,524)	(98,226)	(71,479)	(60,894)	(60,894)
28	Incremental CIBS spending	581,536	719,152	586,281	260,443	126,818	311,854	672,229	615,460	1,111,096	1,317,743	1,368,667	2,816,046
29													
30	Book Depreciation Rate:												
31	Year 1	2.54%	14,771	0	0	0	0	0	0	0	0	0	0
32	Year 1 beginning in FY10	4.00%		28,766	23,451	10,418	5,073	12,474	26,889	24,618	44,444	52,710	112,642
33	Year 2	4.00%			28,766	23,451	10,418	5,073	12,474	26,889	24,618	44,444	52,710
34	Year 3	4.00%				28,766	23,451	10,418	5,073	12,474	26,889	24,618	44,444
35	Year 4	4.00%					28,766	23,451	10,418	5,073	12,474	26,889	24,618
36	Year 5	4.00%						28,766	23,451	10,418	5,073	12,474	26,889
37	Year 6	4.00%							28,766	23,451	10,418	5,073	12,474
38	Year 7	4.00%								28,766	23,451	10,418	5,073
39	Year 8	4.00%									28,766	23,451	10,418
40	Year 9	4.00%										28,766	23,451
41	Year 10	4.00%											28,766
42	Year 11	4.00%											28,766
43	Book Depreciation Expense-Services	14,771	28,766	52,217	62,635	67,708	80,182	107,071	131,690	176,133	228,843	283,590	396,232
44													
45	Accumulated Depreciation Services-Beginning of Year	-	-	28,766	80,983	143,618	211,326	291,508	398,579	530,268	706,402	935,245	1,218,835
46	Accumulated Depreciation Services-End of Year	14,771	28,766	80,983	143,618	211,326	291,508	398,579	530,268	706,402	935,245	1,218,835	1,615,066
47													
48													
49													
50	Total Mains & Services Depreciation Expense	49,836	98,794	179,335	212,059	249,951	307,352	384,247	464,177	600,433	814,476	1,003,569	1,490,157
51													
52	Total Mains & Services Accumulated Depreciation	49,836	98,794	278,129	490,188	740,138	1,047,490	1,431,737	1,895,914	2,496,347	3,310,822	4,314,391	5,804,549

6(a) & 31(a) FY 2009 filing used the composite depreciation rate for both mains and services.

**Liberty Utilities (EnergyNorth Natural Gas) Corp.
Fiscal Year 2019 Cast Iron/Bare Steel Replacement Program
Municipal Taxes as a Percentage of Net Plant**

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(m) ¹
	12/31/2005	12/31/2006	12/31/2007	12/31/2008	12/31/2009	12/31/2010	12/31/2011	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018
1 Plant in Service	258,573	272,678	289,379	305,221	319,737	332,049	344,966	356,165	381,214	419,215	451,950	494,511	539,666	
2 Depreciation and Amortization Reserve	(82,363)	(88,564)	(94,562)	(102,587)	(108,270)	(114,294)	(119,973)	(121,047)	(129,209)	(137,656)	(149,943)	(163,209)	(171,469)	
3 Net Plant	176,209	184,114	194,817	202,634	211,467	217,756	224,993	235,118	252,006	281,559	302,007	331,302	368,198	-
4														
5 Average Net Plant														
6 Plant in Service		265,625	281,028	297,300	312,479	325,893	338,508	350,565	368,690	400,214	435,582	456,863	495,808	269,833
7 Depreciation Reserve		(85,463)	(91,563)	(98,575)	(105,429)	(111,282)	(117,133)	(120,510)	(125,128)	(133,432)	(143,799)	(150,432)	(160,706)	(85,734)
8 Net Plant		180,162	189,465	198,726	207,051	214,611	221,375	230,056	243,562	266,782	291,783	306,431	335,102	184,099
9														
10 Municipal Taxes		3,534	3,641	3,771	4,294	5,459	5,776	5,321	6,835	8,560	7,644	9,596	9,386	
11														
12 % Municipal Taxes to Net Plant		1.96%	1.92%	1.90%	2.07%	2.54%	2.61%	2.31%	2.81%	3.21%	2.62%	3.13%	2.80%	0.00%

Note: Source of above data is the December 31 PUC Annual Report to be consistent with data previously provided to the Commission.

¹Data from the Annual Report isn't available yet. The Annual Report isn't due until 3/31/2019.

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Fiscal Year 2019 Cast Iron/Bare Steel Replacement Program
Bill Impacts due to Cast Iron and Bare Steel Replacement Program

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Estimate FY 2019	Estimate FY 2020
1 Annual Increase due to Cast Iron Bare Steel program	262,185	479,762	521,590	(44,226)	157,667	330,245	311,610	214,434	688,807	762,488	1,422,784	2,283,645
2												
3 Annual Throughput (see Winter COG filing - schedule 10B)	154,702,063	150,828,182	154,648,622	163,588,592	158,062,349	160,018,819	166,523,068	172,103,158	186,909,214	182,370,287	183,203,513	183,203,513
4												
5 Increase Factor	\$0.0017	\$0.0032	\$0.0034	(\$0.0003)	\$0.0010	\$0.0021	\$0.0019	\$0.0012	\$0.0037	\$0.0042	\$0.0078	\$0.0125
6												
7 Annual Calendar Year Gross Revenues (Annual Report - Page 11) ³	\$176,520,000	\$151,224,178	\$132,475,941	\$146,365,316	\$119,363,340	\$137,617,008	\$119,363,341	\$156,933,825	\$120,053,649	\$156,933,825	\$0	\$0
8												
9 Annual Percent Increase	0.15%	0.32%	0.39%	-0.03%	0.13%	0.24%	0.26%	0.14%	0.57%	0.49%	#DIV/0!	#DIV/0!
10												
11 Miles of Cast Iron/Bare Steel Main Replaced Annually through CIBS	2.96	3.98	2.79	1.56	1.65	3.51	5.00	5.05	10.26	11.58	9.91	13.38
12 Cumulative Miles of Main Replaced through CIBS	2.96	6.94	9.73	11.29	12.94	16.45	21.45	26.50	36.76	48.34	58.25	71.63
13 Total Miles of Cast Iron/Bare Steel Main Remaining ¹	149.8	142.0	137.4	132.1	126.30	120.88	113.96	106.46	93.18	78.65	68.74	55.36
14												
15 Services Replaced Annually ²	101	127	282	81	84	174	316	291	572	584	270	399
16 Cumulative Number of Services Replaced	101	228	510	591	675	849	1,165	1,456	2,028	2,612	2,882	3,281
17												
18 Typical Residential bill	\$1,292	\$1,107	\$1,118	\$1,059	\$1,020	\$1,123	\$1,309	\$1,309	\$1,078	\$1,171	\$1,170	\$1,170
19												
20 Typical Usage	800	800	800	800	800	800	800	800	763	779	778	778
21												
22 Annual Increase for Residential Heating customer	\$1.36	\$2.54	\$2.70	(\$0.22)	\$0.80	\$1.65	\$1.50	\$1.00	\$2.81	\$3.26	\$6.04	\$9.69
23												
24 Percent Bill Increase	0.10%	0.23%	0.24%	-0.02%	0.08%	0.15%	0.11%	0.08%	0.26%	0.28%	0.52%	0.83%
25												
26												
27 Typical G-41	\$3,375	\$2,939	\$2,842	\$2,696	\$2,654	\$2,926	\$3,499	\$3,499	\$2,651	\$3,031	\$3,213	\$3,213
28												
29 Typical Usage	2,167	2,167	2,167	2,167	2,167	2,167	2,167	2,167	2,029	2,180	2,260	2,260
30												
31 Annual Increase for G-41 customer	\$3.67	\$6.89	\$7.31	(\$0.59)	\$2.16	\$4.47	\$4.06	\$2.70	\$7.48	\$9.11	\$17.55	\$28.17
32												
33 Percent Bill Increase	0.11%	0.23%	0.26%	-0.02%	0.08%	0.15%	0.12%	0.08%	0.28%	0.30%	0.55%	0.88%
34												
35												
36 Typical G-42	\$22,595	\$18,926	\$18,432	\$17,516	\$16,884	\$18,853	\$22,486	\$22,486	\$16,284	\$18,916	\$21,784	\$21,784
37												
38 Typical Usage	15,567	15,567	15,567	15,567	15,567	15,567	15,567	15,567	14,720	15,883	18,073	18,073
39												
40 Annual Increase for G-42 customer	\$26.38	\$49.52	\$52.50	(\$4.21)	\$15.53	\$32.13	\$29.13	\$19.40	\$54.25	\$66.41	\$140.36	\$225.28
41												
42 Percent Bill Increase	0.12%	0.26%	0.28%	-0.02%	0.09%	0.17%	0.13%	0.09%	0.33%	0.35%	0.64%	1.03%
43												
44												
45 Typical G-52	\$21,973	\$16,707	\$16,605	\$16,025	\$14,629	\$16,555	\$18,667	\$18,667	\$14,087	\$15,714	\$17,730	\$17,730
46												
47 Typical Usage	15,687	15,687	15,687	15,687	15,687	15,687	15,687	15,687	14,566	15,645	17,935	17,935
48												
49 Annual Increase for G-52 customer	\$26.59	\$49.90	\$52.91	(\$4.24)	\$15.65	\$32.37	\$29.35	\$19.55	\$53.68	\$65.41	\$139.28	\$223.56
50												
51 Percent Bill Increase	0.12%	0.30%	0.32%	-0.03%	0.11%	0.20%	0.16%	0.10%	0.38%	0.42%	0.79%	1.26%

Line / Column Notes:
1(b)-16(b) Amounts are cumulative from July 1, 2009

¹These figures are estimated as of the end of the CIBS fiscal year (i.e. FY 2019 data is as of 3/31/2019). Mileage includes Cast Iron/Bare Steel replaced through the CIBS Program as well as City/State Construction.

²These figures include all service replacements and inserts, including bare steel, coated steel and plastic services

³Data from the Annual Report isn't available yet. The Annual Report isn't due until 3/31/2019.