

Gas Safety Inc  
16 Brook Lane  
Southboro, Ma 01772  
508-344-9321

Town of Reading, Massachusetts  
Town Manager  
Robert LaLecheur  
Re: Gas Leak Survey  
7/21/2020

Town of Reading

Pursuant to a contract between the Town of Reading and Gas Safety Inc (GSI), GSI has conducted Phase One of the gas leak study. GSI surveyed town roadways with a Picarro cavity ringdown spectrometer (CRDS) that detects methane in parts per billion and tags each reading with a Global Positioning coordinate (GPS) that allows for mapping throughout any location. All CRDS raw data files have been delivered to the town via electronic mail and shared in this [Google Drive file](#).

## Results

GSI utilized industry reported 12/31/2019 [gas leak data](#) compiled by local nonprofit HEETMA.ORG that indicated 120 active outstanding leaks at 12/31/2019. The CRDS survey indicated [84 active known leaks](#) with [36 locations with no reading](#) on the CRDS. The CRDS survey indicated [69 other locations](#) with elevated methane levels that warrant investigation. The 69 locations may or may not be actual gas leaks as the CRDS detects methane that can come from many sources including but not limited to vehicle exhaust, septic system failures, sewage system emissions, ruminant animals, landfills and swamps. GSI expects that many of the 79 locations may not be actual gas pipeline leaks but suggest that each location be resurveyed with the CRDS and if positive be investigated, documented and reported to NGRID.

## Phase II

GSI suggests testing all 120 known leak locations and all 69 CRDS new leak indications for a potential total of 189 leaks. There were a few locations where 2 leaks were listed that may be separate leaks or duplicate leaks. GSI expects total leaks to be in the range of 160-200 documented leaks. According to the contract, GSI will only charge the Town of Reading for positive leak reports and there is no charge for repaired or negative leak locations, therefore

total costs to test all leak locations for phase II is estimated at \$15,000 and should not exceed \$20,000.

Respectfully Submitted,

Bob Ackley  
President  
Gas Safety Inc  
508-344-9321  
robert.c.ackley@gmail.com

Appendix:

#### Known NGRID Reported Leaks

p/n	#	Street	Sfx
p	20	Arlington	St
p	276	Ash	St
p	11	Bancroft	Rd
p	2	Border	Rd
p	2	Border	Rd
p	71	Cross	St
p	60	Deering	St
p		Forest Glen	Rd
p		Forest Glen	Rd
p	40	Grand	St
p	46	Grand	St
p	24	Grove	St
p	39	Grove	St
p	59	Grove	St
p	33	Hanscome	Ave
p	85	Haven	St
p	322	Haven	St
p	34	Kingston	St
p	33	Locust	St

p	39	Lowell	St
p	69	Lowell	St
p	127	Lowell	St
p	127	Lowell	St
p	178	Lowell	St
p	330	Lowell	St
p	80	Main	st
p	80	Main	St
p	154	Main	St
p	163	Main	St
p	165	Main	St
p	172	Main	St
p	178	Main	St
p	228	Main	St
p	270	Main	St
p	285	Main	St
p	288	Main	St
p	290	Main	St
p	295	Main	St
p	300	Main	St
p	328	Main	St
p	352	Main	St
p	454	Main	St
p	750	Main	St
p	849	Main	St
p	881	Main	St
p		Main	St
p	757	Main	St
p	115	Middlesex	Ave
p		Mt Veron	St
p	12	Oak	St
p	120	Oak	St
p	23	Oak Ridge	Rd
p	202	Pearl	St

p	2	Pinevale	Av
p	41	Prescott	St
p	56	Prescott	St
p	64	Prescott	St
p	166	Prescott	st
p	174	Prescott	St
p	124	Prescott	St
p	8	Putitan	Rd
p	40	Sanborn	Rd
p	6	Shckford	Rd
p	70	South	St
p	128	South	st
p	362	South	st
p		South	St
p	4923	Summer	Ave
p		Summer	Ave
p	285	Summer	Ave
p		Summer Ave	Ave
p	60	Temple	St
p	66	Temple	St
p	87	Walkers Brook	Rd
p	13	Washington	St
p	20	Washington	St
p	109	Washington	St
p	143	Washington	St
p	113	Washington	St
p		Weston	Rd
p	90	Woburn	St
p	146	Woburn	St
p	283	Woburn	St
p		Woburn	St
n	40	Auburn	St
n	40	Autumn	St
n	245	Charles	St

n	251	Charles	St
n	59	Grove	St
n	73	HillCrest	Rd
n	34	Kingston	St
n		Linden	St
n	405	Lowell	St
n	369	Lowell	St
n	431	Main	St
n	85	Mineral	St
n	7	Mt Vernon	St
n	2	Oak	St
n	30	Orange	St
n	50	Orange	St
n	4	Parkman	Rd
n	52	Pearl	St
n	35	Pierce	St
n	45	Pratt	St
n	30	Priscilla	Rd
n	124	Prospect	St
n	8	Puritan	Rd
n	55	Putnam	St
n	70	South	st
n	12	Thorndike	St
n		Torre	St
n	110	Vine	St
n	110	Vine	St
n	104	Wakefield	St
n	168	West	St
n	59	Willow	St
n	76	Willow	St

New Potential Leak Locations

1	Linnea Lane
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2	Charles Street
3	Charles Street
4	Charles Street by Pearl Street
5	Belmont Street by Pearl Street
6	Charles Street at Francis Street
7	Pearl Street
8	Canterbury Drive
9	Bay State Road
10	Track Road
11	Track Road
12	A Street
13	Walkers Brook Road
14	Cross Street
15	Ash Street at Parker Street
16	Avon Street
17	Washington Street
18	Washington Street
19	South Street / Heather Drive
20	Melbourne Street
21	Fairview Drive
22	Scotland Road
23	Scotland Road / Sigbee Rd
24	Gilmore Ave
25	Woburn Street / Copeland Ave
26	Copeland Ave
27	Woburn Street / Temple Street
28	Woburn Street / Wenda Street
29	Edwin Street
30	Green Street / High Street
31	Harriman Ave
32	Bancroft Ave

33	Lowell Street / Middlesex Ave
34	Highland Street
35	Priscilla road
36	Winthrop Ave
37	Bancroft St / Lowell Street
38	Locust Street
39	Winthrop Road / Tower Road
40	Hartshorn Road
41	High Street / Vine Street
42	Lowell Street / Willow Street
43	Spruce Road
44	Harrison Ave
45	Augustus Court
46	Prescott St / Pratt St
47	Criterion Street
48	Woodbine Street
49	Pine Ridge Road / Sylvan Rd
50	Bancroft Ave / Locust Street
51	Prescott Street / Pratt Street
52	Chequessett Road
53	Brook St
54	Prospect St
55	Summer Ave / king
56	Breton Cir
57	Avalon Ave
58	Mt Vernon St
59	Federal St
60	Main St @ Lawrence Road
61	Charles St ? Wakefield St
62	Woburn St / Linden St
63	Woburn St / Main St
64	Main St / Pleasant Street
65	Main St / Ash Street

66	Bay State Road
67	Summer Ave
68	Summer Ave Mineral
69	Summer Ave @ Boyd