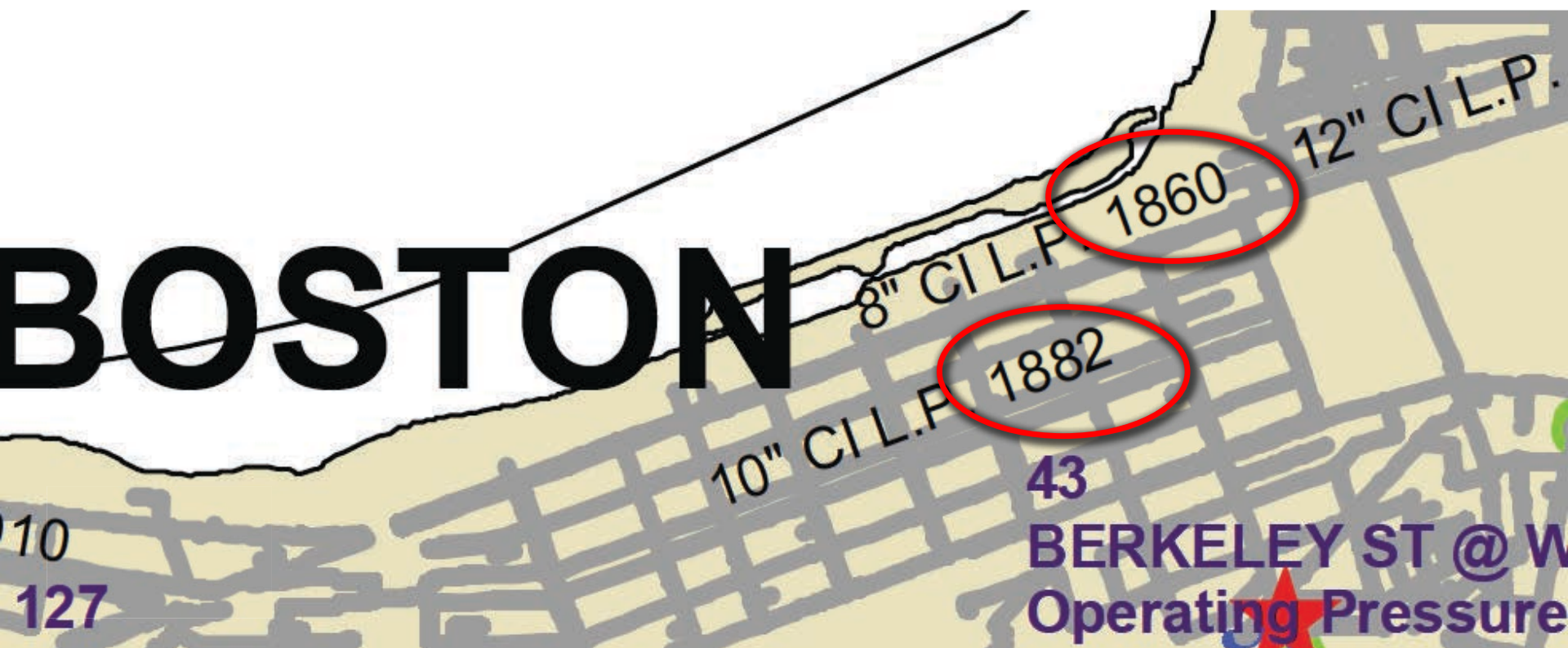


Natural Gas Leaks

HEET

New England Pipes

- Some pipes from 1860s
- Old pipes leak and can crack
- Utilities on 20 year time frame for replacement



Problems

1. Potentially explosive



East Harlem gas explosion (2014) by James Keivon. © New York Daily News. All rights reserved. This content is excluded from our Creative Commons license. For more information, see <https://ocw.mit.edu/help/faq-fair-use/>

Problems

1. Potentially explosive
2. Kill trees



Problems

1. Potentially explosive
2. Kill trees
3. Powerful greenhouse gas



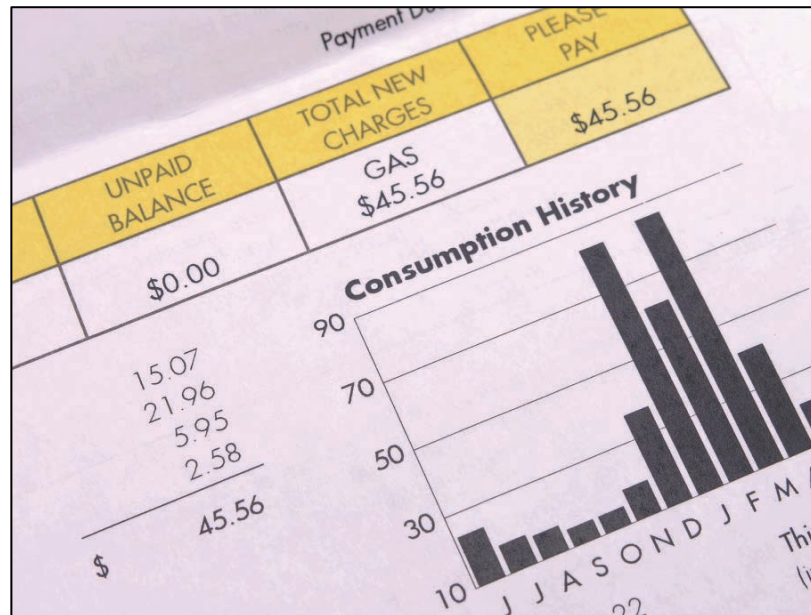
Burned = CO₂



NOT burned = Methane
86X more damaging

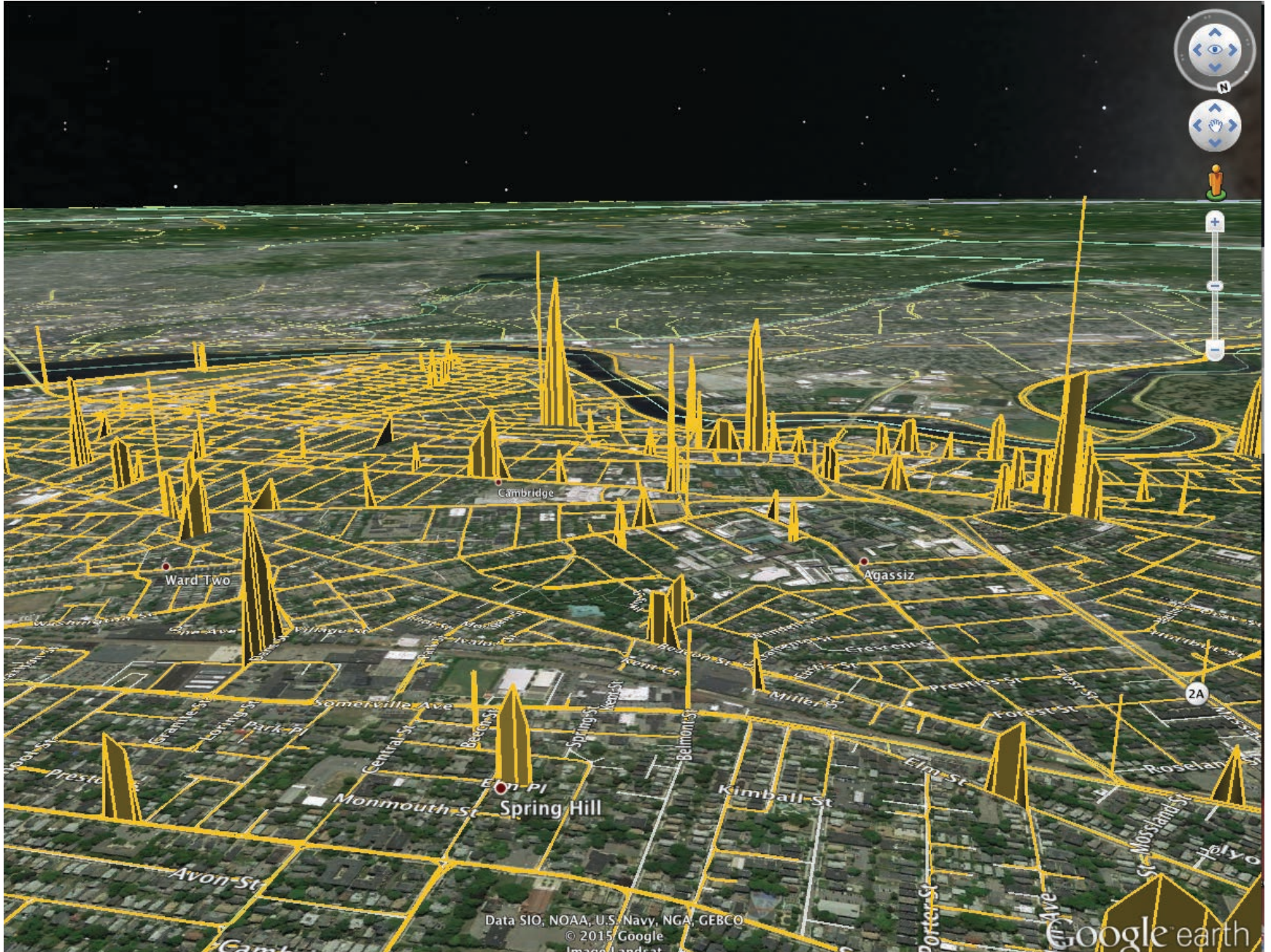
Problems

1. Potentially explosive
2. Kill trees
3. Powerful greenhouse gas
4. Paid for by the ratepayer



It's possible to map natural gas leaks





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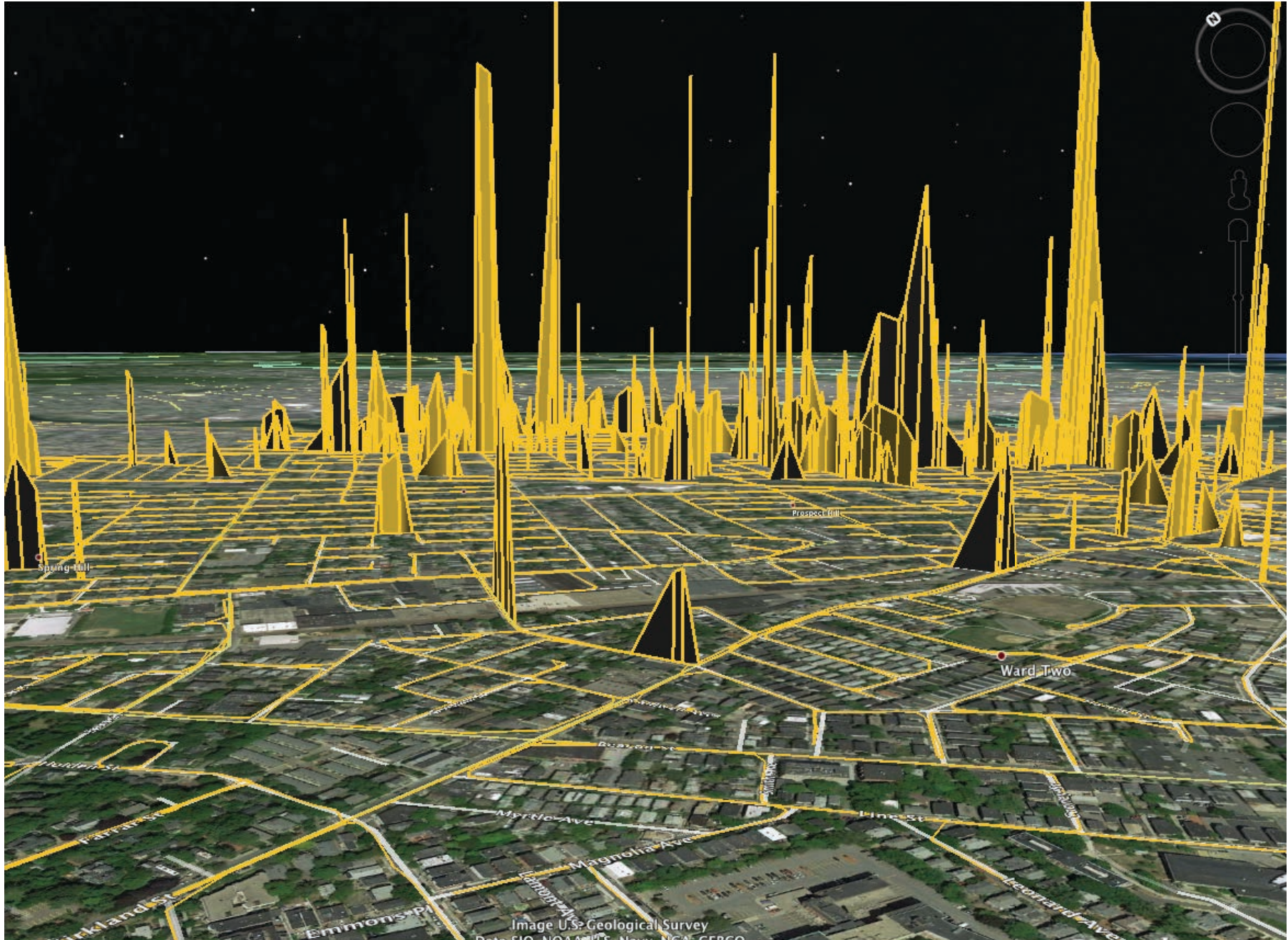


Image U.S. Geological Survey
Data: SIO, NOAA, US Navy, NGA, GEBCO

Via Hand Delivery and Electronic Mail

February 27, 2015

Mark D. Marini, Secretary
Department of Public Utilities
One South Station, 5th Floor
Boston, MA 02110

**Re: D.P.U. 15-SQ-05; Boston Gas Company d/b/a National Grid
2014 Annual Service Quality Report**

Dear Secretary Marini:

Enclosed please find the Boston Gas Company d/b/a National Grid (“Boston Gas” or “Company”) annual service quality report for calendar year 2014. This report is submitted in accordance with G.L. c. 164, § 1E and the Department of Public Utilities’ (“Department”) Guidelines established in Service Quality Standards for Electric Distribution Companies and Local Gas Distribution Companies, D.T.E. 04-116-C (2007) (“Guidelines”). Please also find enclosed my appearance of counsel.



Andrea G. Keeffe
Associate Counsel

LEAK_NO	REPORTED_HOUSE_NUMBER	REPORTED_STREET	REPORTED_CROSS_STREET	REPORTED_TOWN	REPAIR_NO	REPAIRED_HOUSE_NUMBER	REPAIRED_STREET
320143	1094	FELLSWAY W	CENTRAL AVE	MED			
320145	462	NORTH AVE	SALEM ST	ROC			
320147	109	ATLANTIC AVE	MEADOW LN	COH			
320183	151	N MAIN ST	RED GATE LN	COH			
320296	11	CASTLEWOOD DR	CHARLES GATE RD	BIL			
320300	50	HOOVER ST	CAMDEN ST	QUI			
320301	46	PRESIDENTS RD	COOLIDGE AVE	WEY			
320355	355	MAIN ST	HOWARD ST	HAV			
320394		QUINCY SHORE DR	E SQUANTUM ST	QUI			
320405	15	WESTERN AVE	MIDDLE ST	GLO			
320412	57	SYLVAN ST	ADAMS ST	DAN			
320445	73	COTTAGE ST	HURD ST	MEL			
320452	1698	CENTRE ST	RHODA ST	ROS			
320455	62	VINTON ST	W EMERSON ST	MEL			
320487		FRONT ST	AUSTIN RD	WEY			
320493	200	GRANITE AVE	GUILFORD RD	MIL			
320499	245	CROSS ST	PINE GROVE PIKE	WNC			
320501	775	MAIN ST	GREEN ST	MEL			
320576	176	MALDEN ST	WEST ST	MAL			
320636	118	WASHINGTON ST	KNEELAND ST	MAL			
320667	351	CANTON AVE	ELM LAWN LN	MIL			
320697	2	OVAL RD	HANCOCK ST	QUI			
320699	46	SUNNYSIDE RD	PILGRIM RD	QUI			
320731	360	BLUE LEDGE DR	HIGHCREST RD	ROS			
320783	11	DEER COVE RD	PURITAN RD	SWA			
320819	72	AMBLE RD	RACK RD	CFD			
320840	671	E SQUANTUM ST	DEERFIELD ST	QUI			
320854	249	JERUSALEM RD	LITTLE HARBOR RD	COH			
320855	260	JERUSALEM RD	LITTLE HARBOR RD	COH			
320878	395	WARREN ST	PRI WAY OFF WARREN ST WAY	BRO			
320885	6	WELLINGTON TER	CYPRESS ST	BRO			
320905	3	WRIGHT ST	BEDFORD RD	WOB			
320917	343	BROADWAY	SCHOOL ST	SOM			
320966	25	LENOX ST	ESSEX ST	BRO			
320984	54	ADAMS ST	WHARF ST	MIL			
320986	96	WASHINGTON ST	JOHNSON ST	MIL			
321009	40	SQUANTUM ST	CALIFORNIA AVE	MIL			
321011		SUMMER ST	WINN TER	MAL			
321014		DUDLEY LN	CENTRE ST	MIL			
321020	357	ATLANTIC AVE	NICHOLS RD	COH			
321023	28	ELM CT	ELM ST	COH			
321025	156	N MAIN ST	RED GATE LN	COH			



Andrea G. Keeffe
Associate Counsel

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320145	462 NORTH AVE		SALEM ST	ROC			
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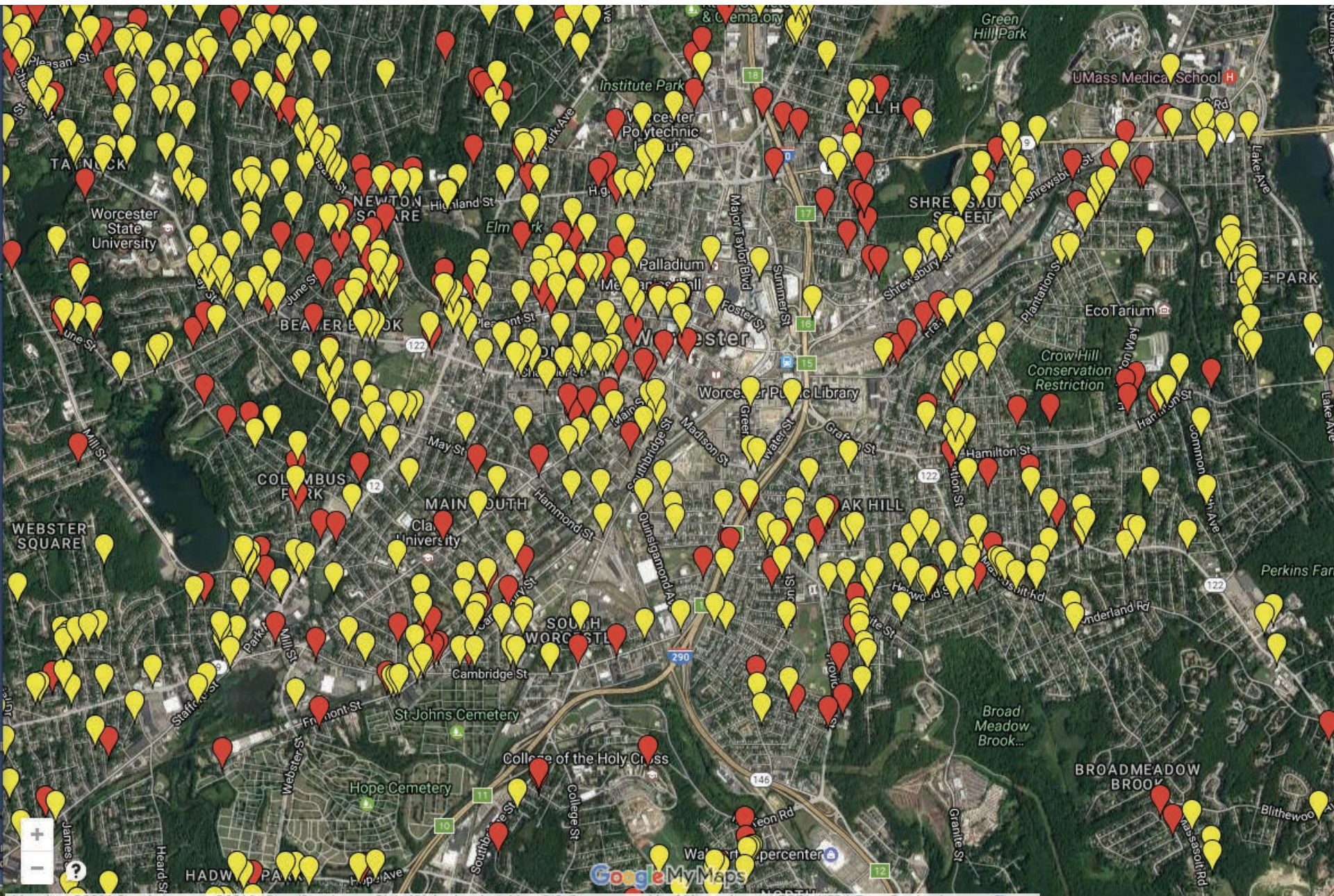


Cohasset

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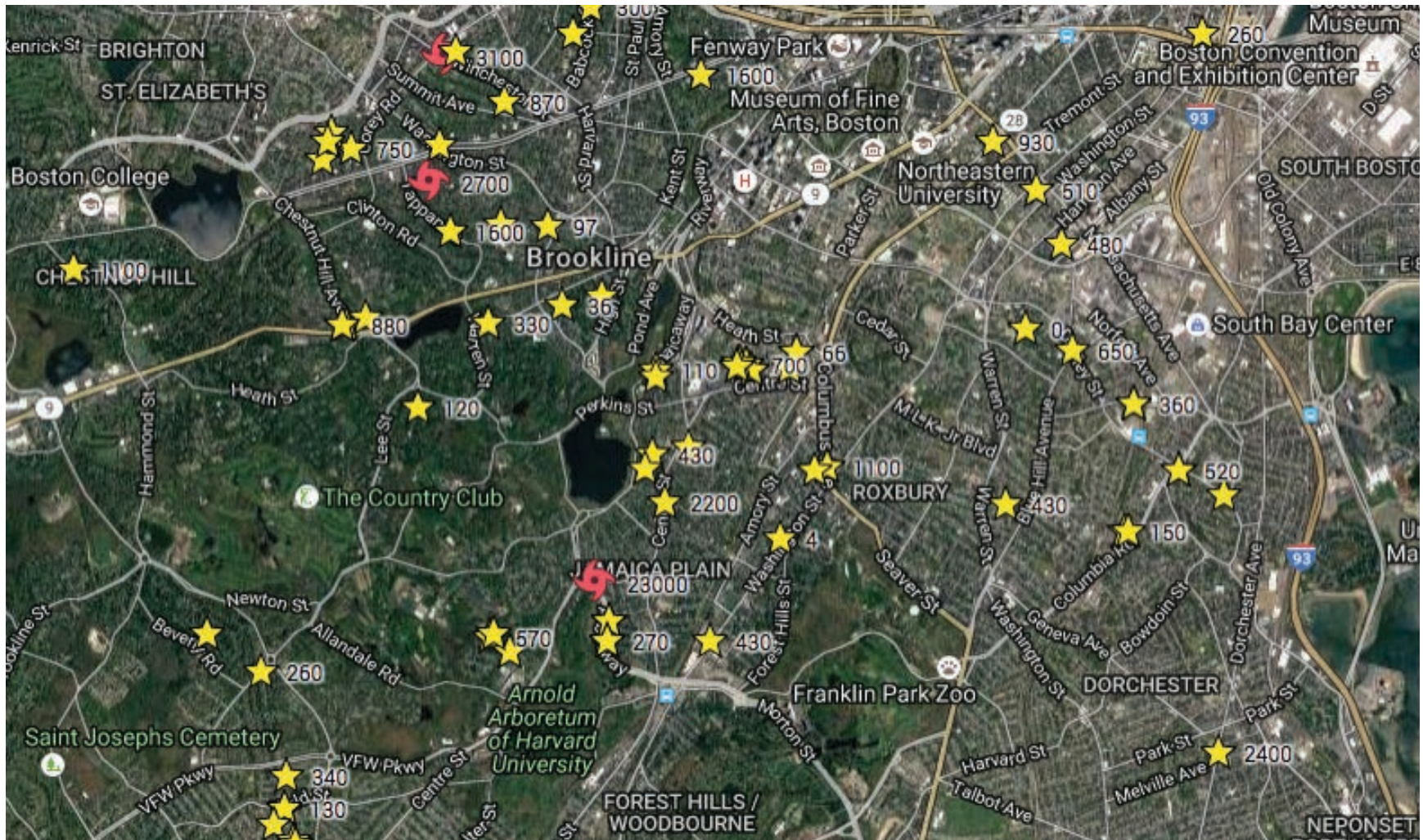


Dorchester



Worcester

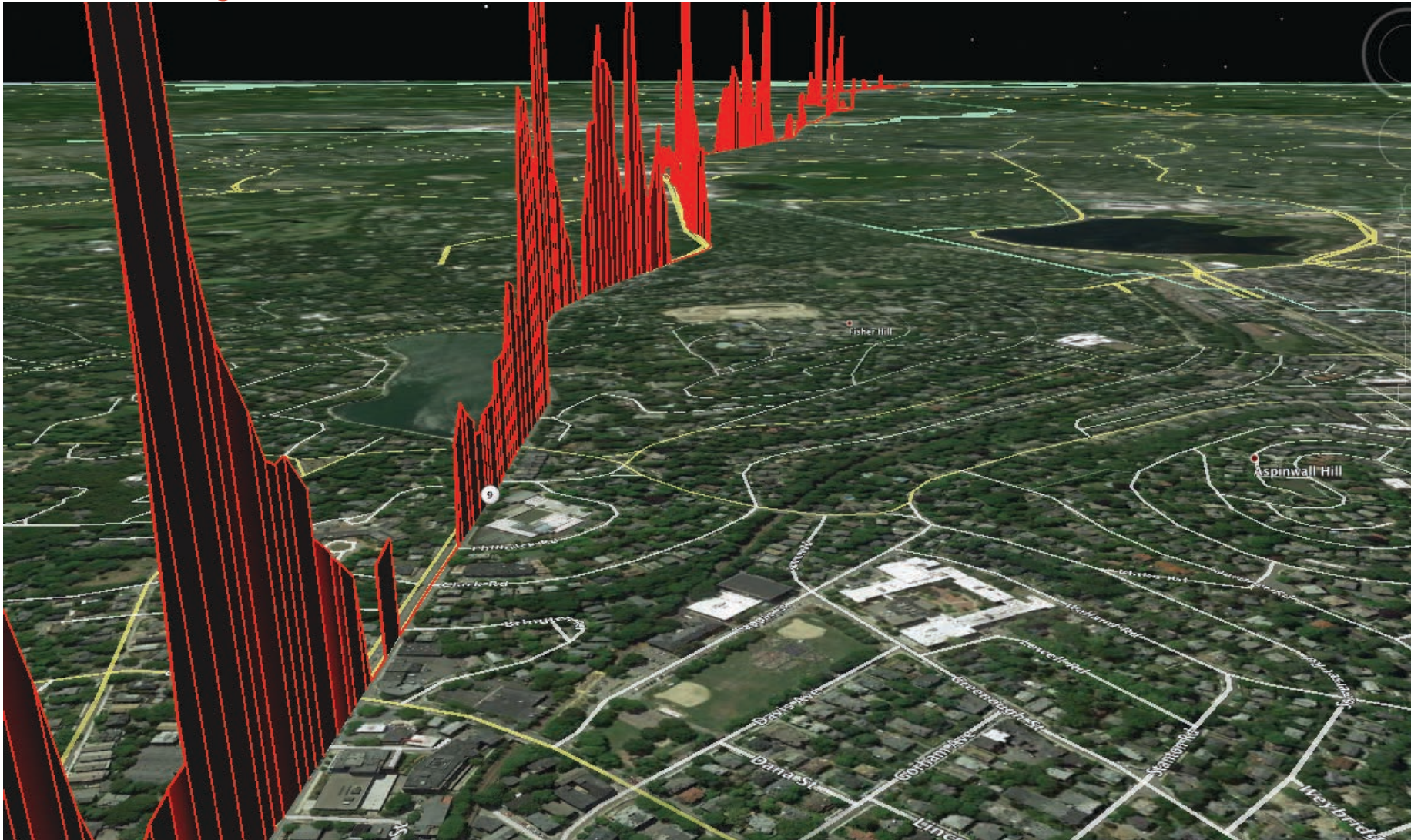
Super-emitters



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See Hendrick, M. F., et al. "[Fugitive methane emissions from leak-prone natural gas distribution infrastructure in urban environments.](#)" *Environmental Pollution* 213 (2016): 710–6.

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Resource: Climate Action Hands-On: Harnessing Science with Communities to Cut Carbon
David Damm-Luhr, Rajesh Kasturirangan, Nathan Phillips, Audrey Schulman, Britta Voss, Jeff Warren and Ory Zik

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