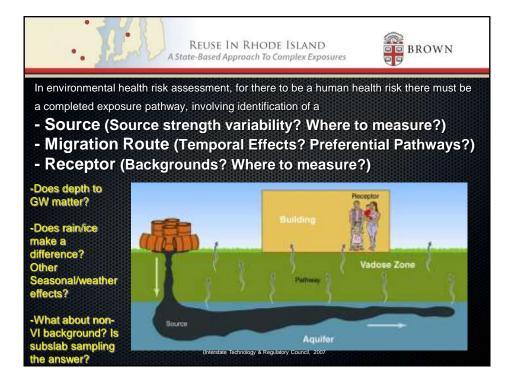
## TCE Fate and Transport, as Related to Vapor Intrusion

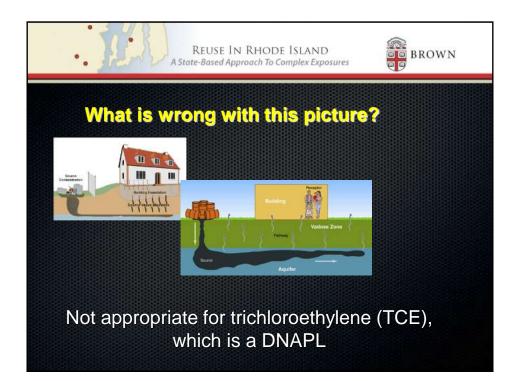


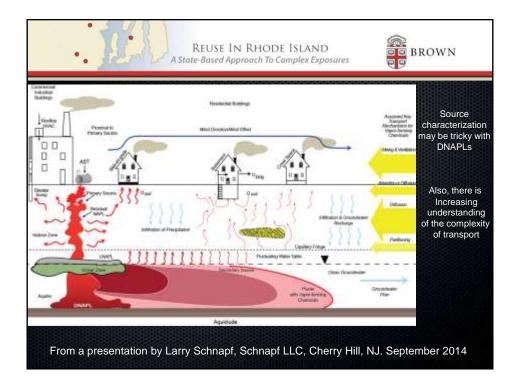
Eric Suuberg School of Engineering, Brown University Providence, Rhode Island

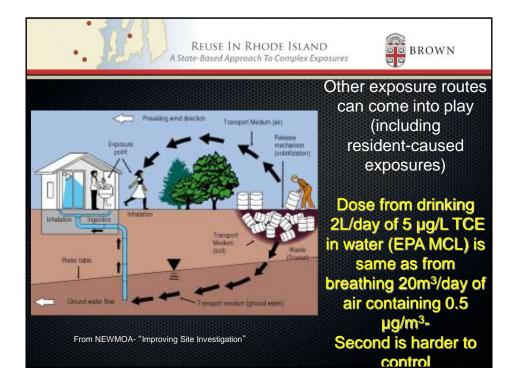
NEWMOA/Brown SRP Workshop on TCE Vapor Intrusion: State of the Science, Regulations and Technical Options May 2015



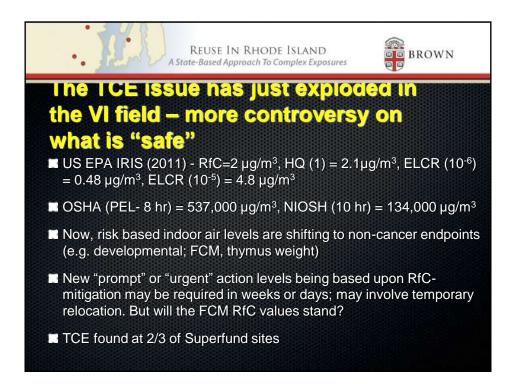


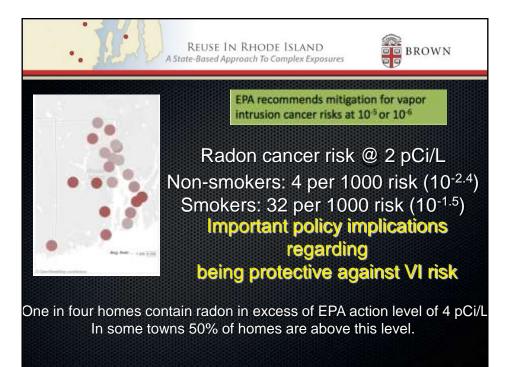




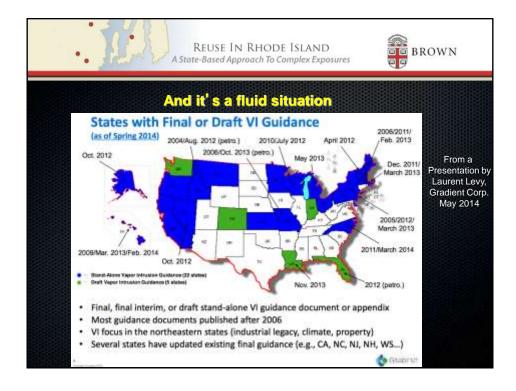


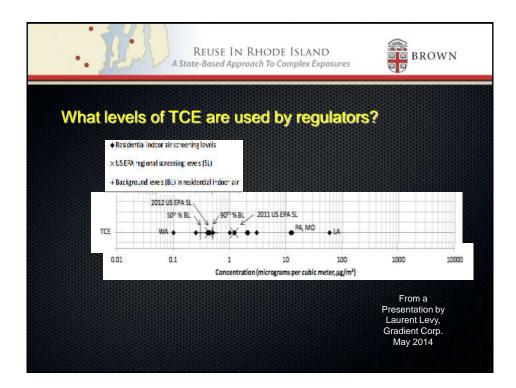


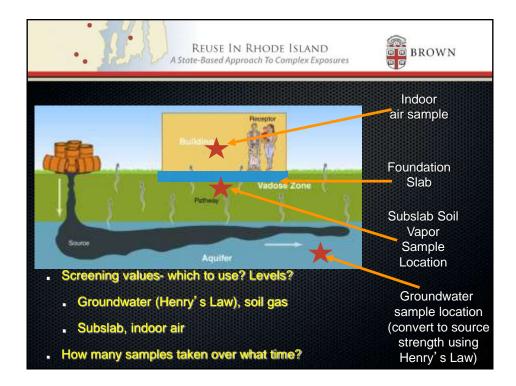












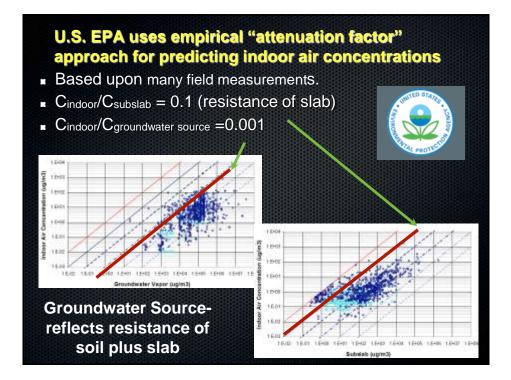
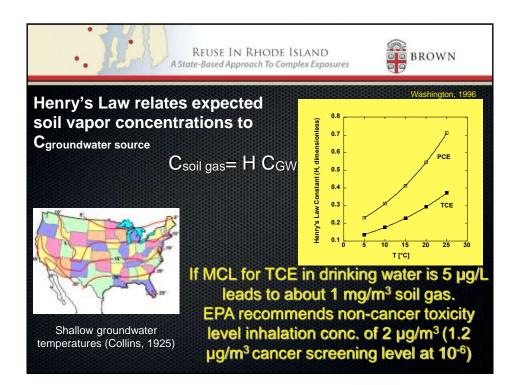
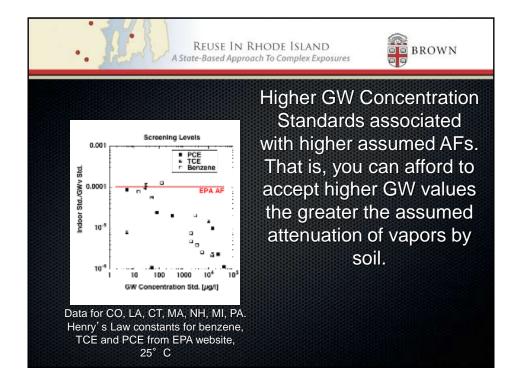
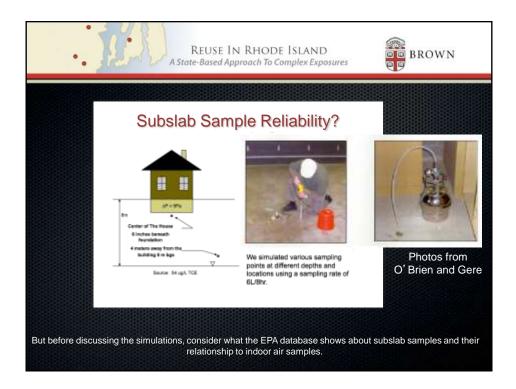


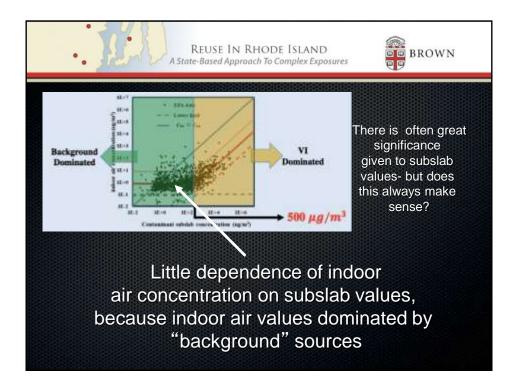
Table 2. Residential screening levels for selected VDDs.									
And the second second	Beszman			105			PCE		
State	Groundwater	Soll Gas	Indeur Air	Grandwater	Sol Gen	Indoor Air	Groundwater	Sell Gos	Indear A
Alamica	5	8.1	0.31	5	0.87	0.022	5	9.1	0.81
California	NA	36.8	0.064	165	588	1.22	NA	190	0.41
Colorado	15	NA	0.93	5	NA:	0.018	5	MAN	0.31
Connecticut	130	2480	53	27	752		340	3788	5
hickene	85-850	2501400; 25-140*	2.5	4.6-700	10000000 8-800	1241	7.4.1100	380/5800; 32-580*	0,9-10
Louisiana	2,900	N05	18	15.000	944	39	15,000	PAR	110
Mokia	NA	NA	102	NA.	Han.	744	140.	NA	NA
Massachusetts	3000	NA	8.8	30	925	1.37	193	NG	0.04
Michigan	5600	150	2.0	1E.000	7082	-14	25,000	2100	42
Minienza.	NA	1.34.5	1.3-6.5	NA.	NA	<b>NA</b>	344	NA.	30
Now Hangohimi	2000	95	1.8	50	54	1.1	80	60	1.4
New Jursey	15	16	2.	1	- 来才,	3	1	34	3
New York	NA.	Paid,	NA:	NA	944	75	NAN	NA	100
Citio .	14	31	3.1.	22	122	12.2	11	81	81
Obiahornei	5	33	0.87	B	D.97	0.017	5	0.33	0.33
Oregori	160	NØ.	0.27	6.6	745	0.018	78	NA.	0.34
PenninAnim	3500	NA.	2.2	14:000	NA	12	-48,000	NA:	36

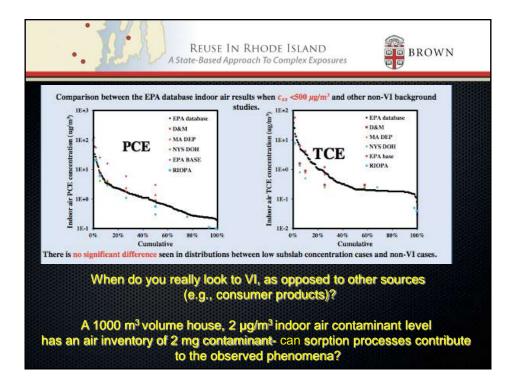


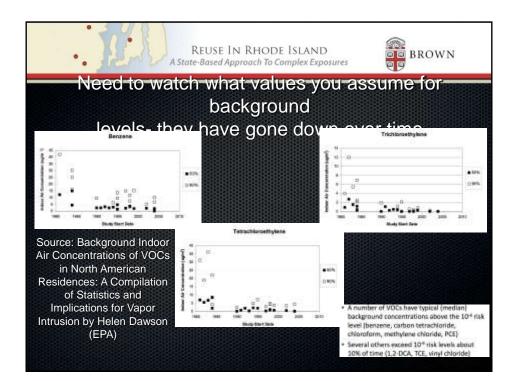
	Auton values used in state VI guidence. Attenueties Coefficiente					
State	Groundwater	Shallow Soll Ges	Durg Sol Das	BITEN	Gravel Spaces	
Niedio	0.001	0.1	0.01	PAR.	NA	
Celégnie	NA.	0.01-0.002	more as shokes	PAR.	0.008	
Celerado	NA .	O.1 Indistant	NA CONTRACTOR	74A	1	
Connection.	0.001	0.001	N.K.	N45.	NAS.	
ndana	144	10.0 - mp kin 1.0 - 1993 - 0.01	0.01	NA		
CLEAR IN CO.	P4.5	745	YAR .	144.	NB	
Mathe	NA	NA	TADA.	144	140	
Assocheputto	Research on JAL mental	rice.	YAS.	Arbusted by 1Dx	P.40	
Action	Salect on JSE model	0.08	0.002	NA.	P40	
Wrinesoto	192	745	2445	144	144	
New Harrigstein	Soped or .155 modul	0.02	0.02	Groundwater value		
and consideration				educated by 10k	1.00	
New James	Report on JSE minibil	0.02	286	0.000	190	
New York	505	240	NA	A4	P40.	
(Fee)	0.001	0.1	0.04	NA.	745	
Chipborns	10.000	CI-1 Technology	CL1 (8-10 K)	NA.	4	
Dreatin	0.000	144	NA	NO	P4/6	
a signal	NA	0.01	hit	NA	144	



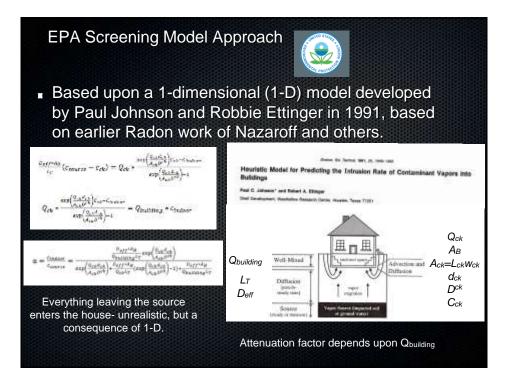












	STREETS FOR THE STREETS	15555555555555555555555555555555555555
Late comen	Moders	
	Lanin in d. 491,112,291, Darwald (199); Jenger M. 1873; Analash; wali Shenn (H.) (1011)	Many
	Latin et al. (2020) (M), Researce and Serve (42) (409), Volt.AbOL 1931	mathematical models of VI being
	chevit. 4/% COOL 2004 cells. VOLSANDE. 4/1-4/y	developed worldwide.
Training the second sec	NVOLABITAL (1945) 27 d. R. madet (1944) 1049-0023 autout/j. NVD4-003	Differ based on
	(4000A115	where the main attenuation is
	Keyline and Forsparse (199), Despansi et al. (191)	assumed
	(A) evalut (A), Julianess at al. (20), 94A (46); Mapping and Chen (4). 20a, SW: maint (Advance at all inferences (A), 75a (2008); and (2008); and (2008); The diverse model (Modeling at al. (2007)); Parsent of al. (2007); The and all A007(3); Parsent of al. (2007); The and all A007(3); Parsent of al. (2007); and all A007(3); Parsent of al. (2007); Comprised and Machiner(6); (2007);	Source: Yao et al., <i>Env. Sci. Tech.,</i> 47, 2457-2470 (2013).

