

Vapor Intrusion in Minnesota : Latest Changes

M I N N E S O T A B R O W N F I E L D S

STATE OF BROWNFIELDS UPDATE

June 24, 2014

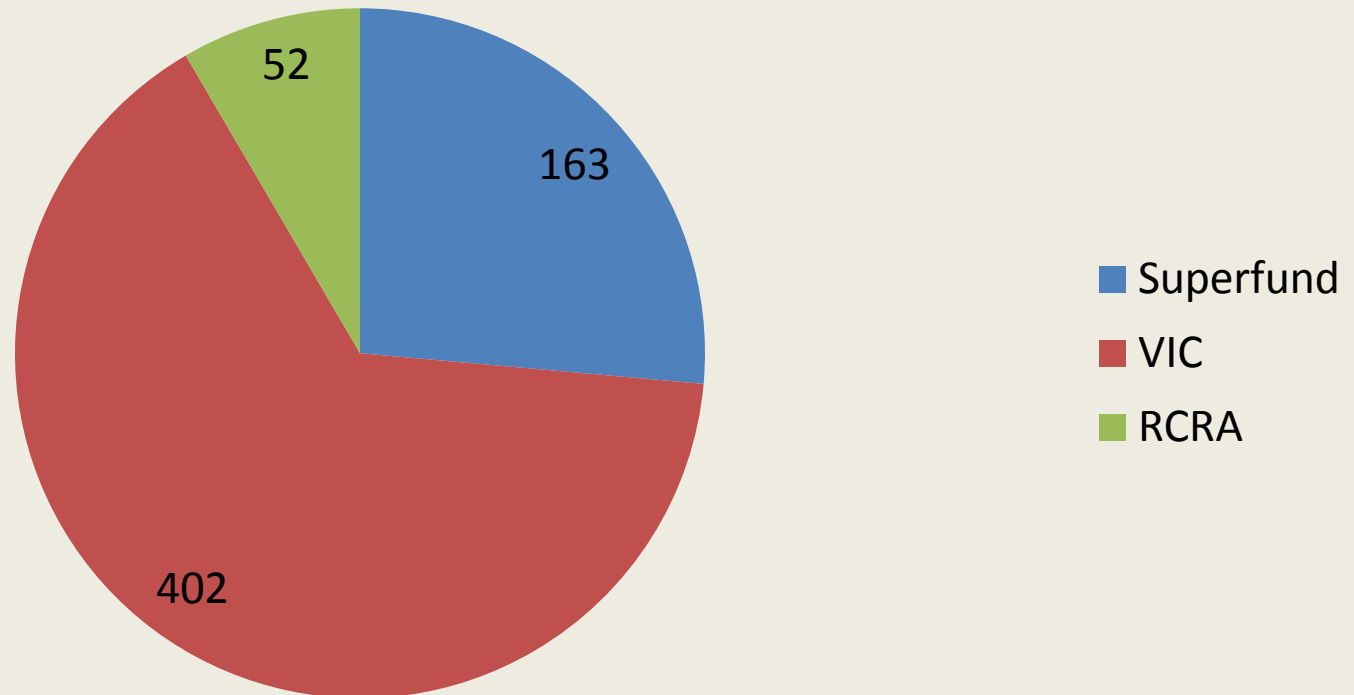
Sandeep Burman

Manager, Site Remediation & Redevelopment



VI Investigations : Active Sites

Active Sites (Haz. Substances)



VI Investigations : Active Sites (Contd.)

Program	Number of Active Sites	Active Site Distribution							Soil Vapor an Issue	Vapor Investigation Completed and no risk found or vapor issue resolved.	Vapor Investigation complete, risk found, action ongoing	Potential vapor risk exists, but investigation is not complete
		Metro	Greater Minnesota	FF	RP	VRP	VP	?				
Superfund	163	94	69	46	72	37		8	92	23	26	43
VIC	402	351	51				402		178	126	20	32
RCRA	52	25	27		52				25	13	7	5
TOTALS	617	470	147	46	124	37	402	8	295	162	53	80



VI Investigations : Active Sites (Contd.)

MPCA investigates vapor intrusion near contaminated sites - Minnesota Pollution Control Agency



VI Investigations and Mitigation : Focus Areas

- Persistence & Uncertainty
- Robust CSM & Lines of multiple evidence
- Emphasis on sub-slab data
- Rigorous design and performance monitoring



VI Investigations and Mitigation : Focus Areas (Contd.)

- VI main driver
- Long – term maintenance responsibility
- Notifications
- MPCA Expedited Responses



VI Investigations : Closed Sites Re-assessment

Closed Sites with VOC	1430 sites
High-density landuse or geologic sensitivity	830 points
Health Demographics?	650 sites in 'high' pregnancy rate areas.
Example:Pregnancy Rate	



Questions & Discussion



Sandeep Burman

651.757.2256

sandeep.burman@state.mn.us