

WasteMINZ 2011 – 5 October 2011

Light Non Aqueous Phase Liquids and Vapour Intrusion Management





Welcome

- Welcome to the workshop
- House keeping:
 - Safety – fire exits
 - Toilets
 - Coffee / tea breaks – 9.30 / 11 / 2.30
 - Lunch break – 12.30 to 1.15
- Hills demonstration of vapour sampling equipment
- Course notes are in black and white (apologies) – will provide a link to download pdf's – so you can get them in colour



Introductions



Dave Thomas



Ian Hers



Background to workshop

- Ministry for the Environment “Guidelines for Assessing and Managing Petroleum Hydrocarbon Contaminated Sites in New Zealand” were issued in draft in 1997 and finalised in 1999
- Guidelines have worked well over the last 12+ years
- Significant advances in the understanding on LNAPL and Vapour Intrusion Management in North America and Europe over the last 10 years – oil companies, universities/researchers, regulators, consultants
- Increased focus on these issues in NZ over this period (e.g. through the Auckland Regional Plan: Air, Land, Water) and projects addressing these issues
- An attempt to deliver a similar workshop last year – but didn’t get off the ground, but started the planning early this year
- White board questions / queries
- Questions during the workshop



Workshop programme

Time	Session Name	Description	Facilitator
08:00 – 08:30	Course Kickoff	Welcome, safety/evacuation briefing, introductions, expectations	
08:30 – 09:30	LNAPL 1	LNAPL concepts critical to successful site characterisation	DT
09:30 – 9:45	Break		
9:45 – 11:00	LNAPL 2	Principals and methods for characterizing LNAPL extent. Evaluating stability of PSH and residual LNAPL source zones	DT
11:00 – 11:15	Break		
11:15 – 12:30	VI 1 - Principles & Theory	Principles of vapour intrusion assessment & evaluation. Under what conditions can we negate risk of vapour intrusion?	IH
12:30 – 13:15	Lunch		
13:15 – 14:30	Vapour Intrusion 2 – Measurement & Evaluation	How do we evaluate risk? Sampling, measurement & lab testing procedures. How do we interpret sub slab, indoor air and outdoor air sampling results?	IH
14:30 – 14:45	Break		
14:45 - 15:00	NZ Regs		SH
15:00 – 17:00	LNAPL & VI Group Exercise	Identify extent (depth and areal) of LNAPL PSH and associated risks. Evaluate if LNAPL recovery is necessary. Identify buildings potentially at risk from vapour intrusion?	DT/IH

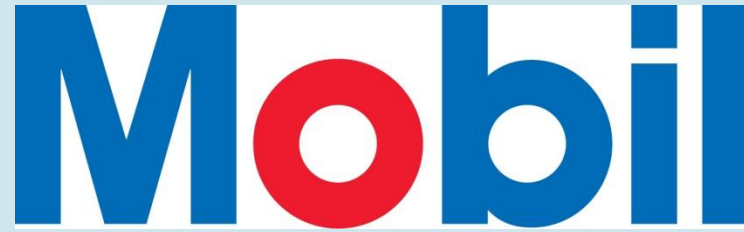


My expectations

- Successful workshop
- Open, positive and constructive dialogue / discussion
- All walk away this evening knowing a lot more than now



Financial sponsors





Other thanks goes to

- WasteMINZ
 - Contaminated Land Sector Group
 - Nic Quilty
 - Marion Short