Checklist for the removal and replacement of petroleum underground storage tanks and underground equipment

This checklist is taken from *Contaminated Land Management Guidelines No.* 1 - Reporting on Contaminated Sites in New Zealand (Revised 2011) and relates to the removal and replacement of petroleum underground storage tanks and underground equipment. Please refer to the guideline for further details on the use and application of the checklist.

This checklist should be included as a coversheet for all contaminated site investigations of this nature.

Report form for the removal and replacement of petroleum underground storage tanks and underground equipment

Checkli	ist										
Cor	npany informa	tion			Site pla	n and loca	lity diagram	I			
Site	e information				Bore/pit	logs					
Contaminant information					Analytic	al result s	heets / chai	n of custody			
Inte	erpretation				Photographs						
Compa	ny informatio	n									
Oil com	pany name:										
Compar	ny representati	ive/ agent:									
Date(s)	on-site:										
Owners	hip:		Compa	Company Operator					Third party		
	s details (tradir ddress):	ng name and									
Current	site use:			Service station Workshop Commercial Truckstop Other (describe)							
Reason	for removal:			Replacement Partial removal Complete Transfer Other							
Site inf	ormation										
Name:											
Address	S:										
Legal de	escription:										
City/dist	trict council are	ea:									
City/dist	trict council zo	ning	Site:								
			Adjacent:								
All HAIL	activities und	ertaken on site:									
Danger	ous goods offic	cer responsible	:								
DGI not	ified on:			DGI	DGI on-site at (<i>date/time</i>):						
Number	of tankpits:			Nun	Number of tanks removed:						
Remov	ed/replaced ta	ank informatio	n								
Tank/ pit ID	Capacity (<i>litres</i>)	Contents (product)	Remove/ replace	Age (<i>yr</i>)	Material	Holed (y/n)	Condition	Pit constr condition			

Site environm	nent								
Neighbouring land uses North			Industrial/commercial			Resid	lential	Agricultural	
(indicate on site plan) South			Industrial/commercial			Resid	lential	Agricultural	
		East	🗌 In	dustrial/commercial		Residential		Agricultural	
		West	🗌 In	dustrial/comme	rcial	Resid	lential	Agricultural	
Topography:				Sloping		Gently slo	oping	Flat	
Surface covering (show on plan):				Unsealed	1	Mixed sea	al/gravel	Sealed	
Surface drainage/runoff (show on plan):				Drains		Soakhole	s	Interceptor	
Underground services (show on plan):				Present	Distant		Absent		
Could services affect migration?				Yes (to what extent?)					
Nearest surfac	ce water body:	:		> 100 metres <a> < 100 metres (s				show on plan)	
Surface water	use:			Recreation	on	Drink	ing	Irrigation	
				Aquacultu	ure	Indus	try	Shipping	
				Not utilised Not known					
Site soil type le	og (lithology if	^r known):	Dep	th (<i>m</i>)	Desc	ription (eg, bro	wn silty clay	<i>'</i>)	
Include anoma characteristics		lios lau							
Was groundwa	ater encounter	red?		No 🗌 Y	'es	Depth (m	bgl)		
Was sheen or	free product v	visible?		No Yes If yes, describe and reference photo					
Have on-site wells been sampled?				No Yes					
Checked for separate phase?				No Yes					
Off-site wells (check with Re	egional Cou	ncil):						
Well number Distance from site		Dire	Direction from site		Depth (<i>m</i>) Use				
Local groundw (if more than c each aquifer ir	one aquifer coi								

Contaminant information											
Hydrocarbon impact assessment											
Location		Visual PID reading		ading	Sam	ples	Evidence	of	Justification for why no		
		inspection				taken		contamina (staining	tion sa	samples taken if there was evidence of contamination	
		Yes	No	Yes	No	Yes	No	odour, e	tc)		
Tank pit walls											
Pit bedding material											
Under pumps											
Dispensing lines											
Remote fills											
Fill lines											
Vent lines											
Other (servio	ces, etc)										
Surface soils (show on plan)											
Vegetation/soil removal											
Site and nea	ar-site veg	etation	condition	:		G	Good Poor				
Was impacte	ed soil/bec	dding re	emoved fr	om site?	?	Ye	S		No		
If yes, how r and where w			he site dio	l it come	e from,						
Sampling (/	ocations s	hown c	on plan) (e	ensure s	ample n	numbers	are sarr	ne as those i	represent	ed on site plan)	
Sample	Date sampled		ocation	Dept	th (<i>m</i>)	Soil type		Odd	our?	Remaining/ removed	
	cumpiec			_				Yes	No		
				_							

Interpretation				
Current site use:	Petroleum use Industrial/commercial	Residential Agricultural		
Future site use:	Petroleum use Industrial/commercial	Residential Agricultural		
Adjoining land use:	Petroleum use Industrial/commercial	Residential Agricultural		
Groundwater use:	Potable Irrigation Stock	Not used Not known		
Soil type: * Considered for groundwater inhalation risk only	SAND, sandy loams, silty sands SANDY SILT, silt, silty loam, clay sand SILTY CLAY, clay loam, sandy clay CLAY	PUMICE GRAVELS* FRACTURED BASALT* PEAT/ORGANIC SOIL		
Depth to contamination:	< 1 metre	> 4 metres		
Depth to groundwater:	2 metres 4 metres	8 metres		
Human health exposure	pathways			
	Pathway	Complete Incomplete		
Current site use Petroleum use Industrial/commercial Residential Agricultural	Soil ingestion Dermal absorption Maintenance/excavation worker Inhalation of vapour from soil Inhalation of vapour from water Groundwater usage Produce ingestion			
Future site use Petroleum use Industrial/commercial Residential Agricultural	Soil ingestion Dermal absorption Maintenance/excavation worker Inhalation of vapour from soil Inhalation of vapour from water Groundwater usage Produce ingestion			
Adjoining site use Petroleum use Industrial/commercial Residential Agricultural	Soil ingestion Dermal absorption Maintenance/excavation worker Inhalation of vapour from soil Inhalation of vapour from water Groundwater usage Produce ingestion			

Ecological risk assessment										
		Significantly im	pacted	Limited impact		Not impacted				
Ecological recepto	ors:									
Describe all likely	receptors:									
Aesthetic issues										
	Significantly impacted	Limited impact			Description of impa	scription of impact (<i>if applicable</i>)				
Odour										
Soil structure]						
Visual]						
Vegetation										
Comments										
Report prepared by:										
Authorised by:				Date	:					