

TECHNICAL MEMORANDUM

INVESTIGATION	Solids Characterisation	PROJECT	Disposal of Solids to Land	
CLIENT	The Alliance Group Limited – Lorneville Plant	PROJECT NO	A01856202	
CLIENT CONTACT	Frances Wise	PREPARED BY	Daryl Irvine	
CLIENT WORK ORDER NO/ PURCHASE ORDER		SIGNATURE	De	
		DATE	14 March 2016	

Introduction

The Alliance Group Limited plant at Lorneville (Alliance Lorneville) has applied for new discharge to surface water consents to replace the existing discharge consent, which expires in 2016. As part of the consent application, Alliance Lorneville has also applied for consent to spread biosolids (dewatered waste activated sludge) to company owned land in the vicinity of the processing plant. As part of a request for further information, made under Section 92 to the Resource Management Act (MfE 1991), Southland Regional Council has queried: *"Are there likely to be any sources of mercury or organics in the biosolids? Are there any pathogens specific to the waste stream which may affect human health? Are there any risks of Salmonella as a result of the discharge of biosolids?"*

Alliance Lorneville has subsequently collected a representative biosolids sample for further heavy metal, organics and microbiological testing to address these queries. In addition, Alliance Lorneville has sampled the stockyards solids for the same testing regime for completeness. This technical memorandum has been prepared by Pattle Delamore Partners to summarise the findings of the further biosolids and stockyards solids testing.

Sampling Methodology

The consent application for disposal of biosolids to land incorporated dewatered waste activated sludge (WAS), from a proposed upgraded wastewater treatment system at the Lorneville plant. Because WAS is not currently produced from the Lorneville plant, a sample was collected from the Alliance Pukeuri plant wastewater treatment system. The Alliance Pukeuri plant incorporates similar processing systems as the Alliance Lorneville plant, with the exception of beef processing facilities and wet-blue tanning (both of which are not present at the Alliance Lorneville plant). Notwithstanding this, the WAS produced from the Alliance Pukeuri plant is considered to be representative of what would be produced from the Alliance Lorneville plant, except for chromium which could be expected to be higher for the Alliance Pukeuri WAS due to potential contribution from the wet-blue tanning process.

The following methodology was utilised for collection of the solids samples:

Alliance Lorneville Stockyards Solids:

A composite sample of stockyards solids was collected on 18 February 2016 by Alliance staff, from a pile of stockyards solids that had recently been scraped from below the stockyards and left to stand prior to disposal. Samples were collected from several locations within the pile and mixed to form a composite sample. The sample was then sent to Hill Laboratories Limited in Christchurch for analysis. The sample was assessed as a solid sample at a Screen Level.



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Alliance Pukeuri Waste Activated Sludge:

A liquid WAS sample was collected from the WAS tank at Alliance Pukeuri on 17 February 2016, by Alliance staff. The sample was then sent to Hill Laboratories Limited in Christchurch for analysis and was assessed as a liquid sample at a Screen Level.

Results

The laboratory results from the stockyards and waste activated sludge analyses have been collated and attached in Appendix A. The WAS results were initially reported in units of g/m³ as received, due to the sample being liquid form. For the purpose of comparing the results from the two solids samples and for assessment against guideline limits, the WAS results were converted to mg/kg dry weight, based on the measured solids content of the WAS sample (approximately 1.11% solids content). Where applicable, the results have been compared with the Guidelines for Safe Application of Biosolids to Land in New Zealand (Biosolids Guidelines) (NZWWA 2003)¹.

For the assessment of microorganisms, both the stockyards and WAS samples contained elevated levels of *E. coli* and *Campylobacter* species (above Grade 'A' guideline limits) but contained less than detection levels for *Salmonella*. Due to the elevated microorganism count for *E. coli* and *Campylobacter* both waste streams can be considered to fall into Grade 'B' categorisation under the Biosolids Guidelines.

The heavy metal results for both samples were less than the Biosolids Guidelines limits for the Grade 'a' biosolids limits, with the exception of the zinc concentration in the stockyards solids, which was less than the Grade 'b' limit. The higher zinc content in the stockyards solids may be as a result of zinc related veterinary products utilised on farms. The mercury content of both solids samples were below the Screen detection limit, and less than the Biosolids Guidelines Grade 'a' limit.

Both samples were assessed against a large organic compounds suite (refer to Appendix A), with all organic compounds with Biosolids Guideline limits returning below method detection limit results. While some individual parameters had detection limits greater than the Grade 'a' limit, the detection limits were below the Grade 'b' limit of the Biosolids Guidelines. The Total PCB (sum of 35 congeners) detection limit was greater than both the Grade 'a' and 'b' limits, however, the detection limit is as a result of the sum of all 35 congeners detection limits. The individual PCB congeners were all below detection limits and below the Total PCB Grade 'a' limit.

The organic compounds testing did register above detection limit results for 3 & 4-Methylphenol (m- + p-cresol) for both solids samples. There is no limit for 3 & 4-Methylphenol (m- + p-cresol) in the Biosolids Guidelines. P-Cresol naturally occurs in sheep urine (Martin 1982) and is the likely source measured in both samples.

Conclusions

In response to the request by Southland Regional Council under Section 92 of the RMA, for further information for the consent application from Alliance Lorneville for disposal of biosolids to land, specifically: "Are there likely to be any sources of mercury or organics in the biosolids? Are there any pathogens specific to the waste stream which may affect human health? Are there any risks of Salmonella as a result of the discharge of biosolids?", the following conclusions have been drawn:

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¹ Note: The Biosolids Guidelines (NZWWA 2003) Grade 'A' and 'B' limits relate to microorganism levels where as Grade 'a' and 'b' limits relate to other contaminants.



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- : There are no likely sources of mercury in the biosolids;
- There are potentially organics present in the biosolids, however, the organics present are likely to be naturally occurring organics and do not have an associated Biosolids Guideline limit;
- There are *E.coli* and *Campylobacter* micro-organism species present in the biosolids, but Salmonella was reported as being <30 MPN/L (adjusted to <675 MPN/25g dry wt). The dry weight value is based on the calculation of 30 MPN/L, however, it is likely that this is an over representation. Proposed controls will be in place for disposal of the biosolids to minimise risks to human health.

Limitations

This report has been prepared by Pattle Delamore Partners Limited (PDP) on the basis of information provided by Alliance Group Limited and Hill Laboratories Limited. PDP has not independently verified the provided information and has relied upon it being accurate and sufficient for use by PDP in preparing the report. PDP accepts no responsibility for errors or omissions in, or the currency or sufficiency of, the provided information.

This report has been prepared by PDP on the specific instructions of Alliance Group Limited for the limited purposes described in the report. PDP accepts no liability if the report is used for a different purpose or if it is used or relied on by any other person. Any such use or reliance will be solely at their own risk.

References

Martin AK (1982) The origin of urinary aromatic compounds excreted by ruminants. 3. The metabolism of phenolic compounds to simple phenols. Br J Nutr. 1982 Nov;48(3):497-507.

MfE (1991) Resource Management Act, Ministry for the Environment, New Zealand.

NZWWA (2003), *Guidelines for the Safe Application of Biosolids to Land in New Zealand*, New Zealand Water and Waste Association and Ministry for the Environment.





APPENDIX A:

ALLIANCE LORNEVILLE SOLIDS ANALYSIS

Data Set:	Alliance Lorneville Solids Analysis			
Recorded by:	D. Irvine, Pattle Delamore Partners Limited			
Job Number	A01856202			

Sample Name:		Lorneville Stock Yards	Pukeuri WAS	NZWWA Biosolids G	uidelines Limits
Sample Date:		18-Feb-16	17-Feb-16	NZW WA Diosolius G	didennes Emiles
Laboratory Number:		1540028	1539459		
Parameter:	Units			Grade A or a	Grade B or b
Dry Matter	g/100g as rcvd	14.7	1.11		
Escherichia coli	MPN / g	> 16000	> 14414	100	Not applicable
Salmonella	MPN /25g dry wt	< 75	< 676	1	Not applicable
Campylobacter species	MPN / 25g dry wt	> 27500	< 676	1	Not applicable
Metals extensive suite, screen level (33 metals)					
Total Recoverable Aluminium	mg/kg dry wt	5200	1559		
Total Recoverable Antimony	mg/kg dry wt	< 0.8	< 0.378		
Total Recoverable Arsenic	mg/kg dry wt	< 4	< 1.892	20	30
Total Recoverable Barium	mg/kg dry wt	60	27.027		
Total Recoverable Bismuth	mg/kg dry wt	< 0.8	< 0.189		
Total Recoverable Boron	mg/kg dry wt	< 40	106.306		
Total Recoverable Cadmium	mg/kg dry wt	0.3	0.180	1	10
Total Recoverable Caesium	mg/kg dry wt	< 0.4	0.234		
Total Recoverable Calcium	mg/kg dry wt	17800	19820		
Total Recoverable Chromium	mg/kg dry wt	12	23.4	600	1500
Total Recoverable Cobalt	mg/kg dry wt	2.7	0.856		
Total Recoverable Copper	mg/kg dry wt	20	36.0	100	1250
Total Recoverable Iron	mg/kg dry wt	10700	2342		
Total Recoverable Lanthanum	mg/kg dry wt	2.6	1.12		
Total Recoverable Lead	mg/kg dry wt	6.4	3.60	300	300
Total Recoverable Lithium	mg/kg dry wt	4.5	1.57		
Total Recoverable Magnesium	mg/kg dry wt	4300	1982		
Total Recoverable Manganese	mg/kg dry wt	580	168		
Total Recoverable Mercury	mg/kg dry wt	< 0.2	< 0.189	1	7.5
Total Recoverable Molybdenum	mg/kg dry wt	2.5	1.98		
Total Recoverable Nickel	mg/kg dry wt	7	3.87	60	135
Total Recoverable Phosphorus	mg/kg dry wt	5800			
Total Recoverable Potassium	mg/kg dry wt	6800	9279		
Total Recoverable Rubidium	mg/kg dry wt	22	17.7		
Total Recoverable Selenium	mg/kg dry wt	< 40	< 1.89		
Total Recoverable Silver	mg/kg dry wt	< 0.8	< 0.198		
Total Recoverable Sodium	mg/kg dry wt	1550	48649		
Total Recoverable Strontium	mg/kg dry wt	140	44.1		
Total Recoverable Thallium	mg/kg dry wt	< 0.4	< 0.099		
Total Recoverable Tin	mg/kg dry wt	< 2	< 0.991		
Total Recoverable Uranium	mg/kg dry wt	< 0.2	0.216		
Total Recoverable Vanadium	mg/kg dry wt	< 200	6.31		
Total Recoverable Zinc	mg/kg dry wt	480	243	300	1500
Organochlorine Pesticides Screening in Soil					
Aldrin	mg/kg dry wt	< 0.1	< 0.009	0.02	0.2
alpha-BHC	mg/kg dry wt	< 0.1	< 0.018		
beta-BHC	mg/kg dry wt	< 0.1	< 0.018		
delta-BHC	mg/kg dry wt	< 0.1	< 0.018		
gamma-BHC (Lindane)	mg/kg dry wt	< 0.1	< 0.018		
cis-Chlordane	mg/kg dry wt	< 0.1	< 0.009		
trans-Chlordane	mg/kg dry wt	< 0.1	< 0.009		
Total Chlordane [(cis+trans)*100/42]	mg/kg dry wt	< 0.2	< 0.018	0.02	0.2
2,4'-DDD	mg/kg dry wt	< 0.1	< 0.018		
4,4'-DDD	mg/kg dry wt	< 0.1	< 0.018		
2,4'-DDE	mg/kg dry wt	< 0.1	< 0.018		
4,4'-DDE	mg/kg dry wt	< 0.1	< 0.018		
2,4'-DDT	mg/kg dry wt	< 0.1	< 0.018		
4,4'-DDT	mg/kg dry wt	< 0.1	< 0.009		
Total DDT Isomers	mg/kg dry wt	< 0.6			
Dieldrin	mg/kg dry wt	< 0.1	< 0.009	0.02	0.2
Endosulfan I	mg/kg dry wt	< 0.1	< 0.018		
Endosulfan II	mg/kg dry wt	< 0.1	< 0.018		
Endosulfan sulphate	mg/kg dry wt	< 0.1	< 0.018		
Endrin	mg/kg dry wt	< 0.1	< 0.009		
Endrin aldehyde	mg/kg dry wt	< 0.1	< 0.009		
Endrin ketone	mg/kg dry wt	< 0.1	< 0.018		
Heptachlor	mg/kg dry wt	< 0.1	< 0.009	0.02	0.2
Heptachlor epoxide	mg/kg dry wt	< 0.1	< 0.009	0.02	0.2
Hexachlorobenzene	mg/kg dry wt	< 0.1	< 0.072	0.02	0.2
Methoxychlor	mg/kg dry wt	< 0.1	< 0.009		
Organonitro&phosphorus Pesticides Screen in Soil by					
Acetochlor	mg/kg	< 0.4	< 0.180		
Alachlor	mg/kg	< 0.18	< 0.090		
Atrazine	mg/kg	< 0.4	< 0.180		
Atrazine-desethyl	mg/kg	< 0.4	< 0.180		
Atrazine-desisopropyl	mg/kg	< 0.7	< 0.360		

Azaconazole	mg/kg	< 0.18	< 0.090	
Azinphos-methyl	mg/kg	< 1.8	< 0.360	
Benalaxyl	mg/kg	< 0.18	< 0.090	
Bitertanol	mg/kg	< 0.7	< 0.360	
Bromacil	mg/kg	< 0.4	< 0.180	
Bromopropylate	mg/kg			
Butachlor	mg/kg	< 0.4	< 0.180	
Captan	mg/kg	< 0.7	< 0.360	
Carbaryl	mg/kg	< 0.4	< 0.180	
Carbofuran	mg/kg	< 0.4	< 0.180	
Chlorfluazuron	mg/kg	< 0.4	< 0.180	
Chlorothalonil	mg/kg	< 0.4	< 0.180	
Chlorpyrifos	mg/kg	< 0.4	< 0.180	
Chlorpyrifos-methyl	mg/kg	< 0.4	< 0.180	
Chlortoluron	mg/kg	< 0.7	< 0.360	
Cyanazine	mg/kg	< 0.4	< 0.180	
Cyfluthrin	mg/kg	< 0.5	< 0.270	
Cyhalothrin	mg/kg	< 0.4	< 0.180	
Cypermethrin	mg/kg	< 0.9	< 0.450	
Deltamethrin (including Tralomethrin)	mg/kg	< 0.7	< 0.180	
Diazinon	mg/kg	< 0.18	< 0.090	
Dichlofluanid	mg/kg	< 0.4	< 0.180	
Dichloran	mg/kg	< 0.9	< 0.450	
Dichlorvos	mg/kg	< 0.4	< 0.180	
Difenoconazole	mg/kg	< 0.5	< 0.270	
Dimethoate	mg/kg	< 0.7	< 0.360	
Diphenylamine	mg/kg	< 0.7	< 0.360	
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Diuron	mg/kg	< 0.4	< 0.180	
Fenpropimorph	mg/kg	< 0.4	< 0.180	
Fluazifop-butyl	mg/kg	< 0.4	< 0.180	
Fluometuron	mg/kg	< 0.4	< 0.180	
Flusilazole	mg/kg	< 0.4	< 0.180	
Fluvalinate	mg/kg	< 0.3	< 0.135	
Furalaxyl	mg/kg	< 0.18	< 0.090	
Haloxyfop-methyl	mg/kg		< 0.180	
Hexaconazole	mg/kg	< 0.4	< 0.180	
Hexazinone	mg/kg	< 0.18	< 0.090	
IPBC (3-Iodo-2-propynyl-n-butylcarbamate)	mg/kg dry wt	< 1.8	< 0.901	
Kresoxim-methyl	mg/kg	< 0.18	< 0.090	
Linuron	mg/kg	< 0.7	< 0.180	
Malathion	mg/kg	< 0.4	< 0.180	
Metalaxyl (Mefenoxam)	mg/kg	< 0.4	< 0.180	
Methamidophos	mg/kg	< 1.8	0.100	
Metolachlor	mg/kg	< 0.18	< 0.090	
Metribuzin	mg/kg	< 0.4	< 0.180	
Molinate	mg/kg	< 0.7	< 0.360	
Myclobutanil	mg/kg	< 0.4	< 0.180	
Naled	mg/kg	< 1.8	< 0.901	
Norflurazon	mg/kg	< 0.7	< 0.360	
Oxadiazon	mg/kg	< 0.4	< 0.180	
Oxyfluorfen	mg/kg	< 0.18	< 0.090	
Paclobutrazol	mg/kg	< 0.4	< 0.180	
Parathion-ethyl	mg/kg	< 0.4	< 0.180	
Parathion-methyl	mg/kg	< 0.4	< 0.180	
Pendimethalin	mg/kg	< 0.4	< 0.180	
Permethrin	mg/kg	< 0.1	< 0.054	
Pirimicarb	mg/kg	< 0.4	< 0.180	
Pirimiphos-methyl	mg/kg	< 0.4	< 0.180	
Prochloraz	mg/kg	< 1.8	< 0.901	
Procymidone	mg/kg	< 0.4	< 0.180	
Prometryn	mg/kg	< 0.18	< 0.090	
Propachlor	mg/kg	< 0.18	< 0.180	
Propanil	mg/kg	< 0.7	< 0.360	
Propazine	mg/kg	< 0.18	< 0.090	
Propiconazole	mg/kg	< 0.3	< 0.135	
Pyriproxyfen	mg/kg	< 0.4	< 0.180	
Quizalofop-ethyl	mg/kg	< 0.4	< 0.180	
Simazine	mg/kg	< 0.4	< 0.180	
Simetryn	mg/kg	< 0.4	< 0.180	
Sulfentrazone	mg/kg	< 1.8	< 0.901	
TCMTB [2-(thiocyanomethylthio)benzothiazole,Busan		< 1.8	< 0.360	
Tebuconazole			< 0.180	
	mg/kg			
Terbacil	mg/kg	< 0.4	< 0.180	
Terbufos	mg/kg	< 0.4	< 0.180	
Terbumeton	mg/kg	< 0.4	< 0.180	
Terbuthylazine	mg/kg	< 0.18	< 0.090	
Terbuthylazine-desethyl	mg/kg	< 0.4	< 0.180	
Terbutryn	mg/kg	< 0.4	< 0.180	
Thiabendazole	mg/kg	< 1.8	< 0.901	
Thiobencarb	mg/kg	< 0.4	< 0.180	
	0, 0		5.200	

Tolylfluanid	mg/kg	< 0.18	< 0.090		
Triazophos	mg/kg	< 0.4	< 0.180		
Trifluralin	mg/kg	< 0.4	< 0.180		
Vinclozolin	mg/kg	< 0.4	< 0.180		
Polychlorinated Biphenyls Screening in Soil					
PCB-18	mg/kg dry wt	< 0.01			
PCB-28	mg/kg dry wt	< 0.01	< 0.036		
PCB-31	mg/kg dry wt	< 0.01	< 0.036		
PCB-44	mg/kg dry wt	< 0.01	< 0.036		
PCB-49	mg/kg dry wt	< 0.01	< 0.036		
PCB-52	mg/kg dry wt	< 0.01	< 0.036		
PCB-60	mg/kg dry wt	< 0.01	< 0.036		
PCB-77	mg/kg dry wt	< 0.01	< 0.036		
PCB-81	mg/kg dry wt	< 0.01	< 0.036		
PCB-86	mg/kg dry wt	< 0.01	< 0.036		
PCB-101	mg/kg dry wt	< 0.01	< 0.036		
PCB-105	mg/kg dry wt	< 0.01	< 0.036		
PCB-110	mg/kg dry wt	< 0.01	< 0.036		
PCB-114	mg/kg dry wt	< 0.01	< 0.036		
PCB-118		< 0.01	< 0.036		
	mg/kg dry wt				
PCB-121	mg/kg dry wt	< 0.01	< 0.036		
PCB-123	mg/kg dry wt	< 0.01	< 0.036		
PCB-126	mg/kg dry wt	< 0.01	< 0.036		
PCB-128	mg/kg dry wt	< 0.01	< 0.036		
PCB-138	mg/kg dry wt	< 0.01	< 0.036		
PCB-141	mg/kg dry wt	< 0.01	< 0.036		
PCB-149	mg/kg dry wt	< 0.01	< 0.036		
PCB-151	mg/kg dry wt	< 0.01	< 0.036		
PCB-153	mg/kg dry wt	< 0.01	< 0.036		
PCB-156	mg/kg dry wt	< 0.01	< 0.036		
PCB-150 PCB-157	mg/kg dry wt	< 0.01	< 0.036		
PCB-157			< 0.036		
	mg/kg dry wt				
PCB-167	mg/kg dry wt	< 0.01	< 0.036		
PCB-169	mg/kg dry wt	< 0.01	< 0.036		
PCB-170	mg/kg dry wt	< 0.01	< 0.036		
PCB-180	mg/kg dry wt	< 0.01	< 0.036		
PCB-189	mg/kg dry wt	< 0.01	< 0.036		
PCB-194	mg/kg dry wt	< 0.01	< 0.036		
PCB-206	mg/kg dry wt	< 0.01	< 0.036		
PCB-209	mg/kg dry wt	< 0.01	< 0.036		
Total PCB (Sum of 35 congeners)	mg/kg dry wt	< 0.4		0.02	0.2
		< 0.4	< 1.261	0.02	0.2
Pentachlorophenol Screening in Soil by LCMSMS				0.02	0.2
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP)	mg/kg dry wt	< 0.1	< 0.027	0.02	0.2
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP)				0.02	0.2
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS	mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1	< 0.027 < 0.027	0.02	0.2
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane	mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2	< 0.027 < 0.027 < 0.450	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether	mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2	< 0.027 < 0.027	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane	mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2	< 0.027 < 0.027 < 0.450	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroethoyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chlorophenyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 2 < 4 < 4 < 2 < 4 < 4 < 4 < 4 < 4	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.450 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chlorophenyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chlorophenyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GO	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Bromophenyl phenyl ether A-Bromophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt c-MS mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.905 < 0	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.450 < 0.901 < 0.905 < 0	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodin-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.450 < 0	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane)	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt c-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 4 < 2 < 4 < 4 < 2 < 4 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane)	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt c-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 4 < 2 < 4 < 4 < 2 < 4 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt c-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDE	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ \\ < & 0.450 \\ \\ \\ \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chlorophenyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDE 4,4'-DDT	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 4 < 2 < 4 < 2 < 4 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ \\ < & 0.901 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ < & 0.450 \\ \\ \\ \\ < & 0.450 \\ \\ \\ \\ \\ \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 4 < 2 < 4 < 2 < 2 < 4 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.901 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.450 \\ \\ < & 0.901 \\ \\ \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	< 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 4 < 2 < 4 < 2 < 4 < 4 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.450 < 0.450 < 0.901 < 0.901 < 0.450 < 0.450 < 0.901 < 0.901 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.450 < 0.901 < 0	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulphate	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 4 < 2 < 4 	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDE 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan II Endosulfan sulphate Endrin	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 4 < 2 < 4 	< 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodi-n-propylamine N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan II Endosulfan II Endosulfan sulphate Endrin	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 2 < 4 < 4 < 2 < 4 	 < 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan I Endosulfan sulphate Endrin Endrin ketone Heptachlor	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 2 	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 $	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan I Endosulfan sulphate Endrin Endrin ketone Heptachlor	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 2 	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan I Endosulfan sulphate Endrin Endrin ketone Heptachlor Heptachlor poxide Hexachlorobenzene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 2 	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 $	0.02	
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Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodin-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC gamma-BHC (Lindane) 4,4'-DDE 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan I Endosulfan sulphate Endrin Endrin ketone Heptachlor epoxide Hexachlorobenzene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 2 	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \end{array}$	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodin-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulphate Endrin Endrin ketone Heptachlor Heptachlor epoxide Hexachlorobenzene Polycyclic Aromatic Hydrocarbons in SVOC Soil Sampl	mg/kg dry wt mg/kg dry wt	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccc} & 0.027 \\ < & 0.027 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.901 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 \\ < & 0.450 $	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethyl)ether Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan II Endosulfan II Endosulfan II Endosulfan sulphate Endrin Endrin ketone Heptachlor epoxide Hexachlorobenzene Polycyclic Aromatic Hydrocarbons in SVOC Soil Sampl	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 2 < 1 	 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.450 	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether 4-Bromophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDT JDieldrin Endosulfan I Endosulfan I Endosulfan I Endosulfan I Endosulfan sulphate Endrin Endrin ketone Heptachlor Heptachlor epoxide Hexachlorobenzene Polycyclic Aromatic Hydrocarbons in SVOC Soil Sampl Acenaphthene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 4 < 2 < 4 < 1 	 < 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.270 < 0.270 	0.02	
Pentachlorophenol Screening in Soil by LCMSMS Pentachlorophenol (PCP) 2,3,4,6-Tetrachlorophenol (TCP) Haloethers in SVOC Soil Samples by GC-MS Bis(2-chloroethoxy) methane Bis(2-chloroethyl)ether 4-Bromophenyl phenyl ether 4-Bromophenyl phenyl ether A-Chlorophenyl phenyl ether Nitrogen containing compounds in SVOC Soil Sample 2,4-Dinitrotoluene 2,6-Dinitrotoluene N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine + Diphenylamine Organochlorine Pesticides in SVOC Soil Samples by GC Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) 4,4'-DDD 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan I Endosulfan I Endosulfan I Endosulfan I Endosulfan I Endosulfan sulphate Endrin Endrin ketone Heptachlor Heptachlor epoxide Hexachlorobenzene Polycyclic Aromatic Hydrocarbons in SVOC Soil Sampl Acenaphthylene Anthracene	mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt mg/kg dry wt s by GC-MS mg/kg dry wt mg/kg dry wt	 < 0.1 < 0.1 < 0.1 < 2 < 2 < 2 < 2 < 2 < 2 < 4 < 4 < 2 < 4 < 4 < 2 < 4 < 1 	 < 0.027 < 0.027 < 0.450 < 0.450 < 0.450 < 0.450 < 0.450 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.901 < 0.450 < 0.901 < 0.450 < 0.450 < 0.450 < 0.270 < 0.270 < 0.270 	0.02	

Benzo[b]fluoranthene + Benzo[j]fluoranthene mg/kg dry wt < 2 < 0.270 Benzo[g,h,i]perylene mg/kg dry wt < 2 < 0.270 Benzo[k]fluoranthene mg/kg dry wt < 2 < 0.270 Benzo[k]fluoranthene mg/kg dry wt < 1 < 0.270 1&2-Chloronaphthalene mg/kg dry wt < 1 < 0.270 Chrysene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 1 0.270 Phenathrene mg/kg dry wt < 1 0.270 Phenathrene mg/kg dry wt < 1 0.270 Phenols in S	
Benzolk/filuoranthene mg/kg dry wt < 2 0.270 1&2-Chloronaphthalene mg/kg dry wt < 1 < 0.270 Chrysene mg/kg dry wt < 1 < 0.270 Dibenzo[a,h]anthracene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 1 < 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 1 < 0.270 Phenathrene mg/kg dry wt < 1 < 0.270 Naphthalene mg/kg dry wt < 1 < 0.270 Phenathrene mg/kg dry wt < 1 0.270 Phenols in SVOC Soil Samples by GC-MS - - 0.270 - 2-Chlorophenol mg/kg dry wt < 5	
1&2-Chloronaphthalenemg/kg dry wt<	
Chrysene mg/kg dry wt < 1 < 0.270 Dibenzo[a,h]anthracene mg/kg dry wt < 2 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluorene mg/kg dry wt < 1 < 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 1 < 0.270 2-Methylnaphthalene mg/kg dry wt < 1 < 0.270 Naphthalene mg/kg dry wt < 1 < 0.270 Phenanthrene mg/kg dry wt < 1 < 0.270 Phenost in SVOC Soil Samples by GC-MS 1 < 0.270 Phenols in SVOC Soil Samples by GC-MS 1 0.270 Phenols in SVOC Soil Samples by GC-MS 0.270 2-Chlorophenol mg/kg dry wt < 5 0.901 2-Chlorophenol mg/kg dry wt < 5 0.450 2,4-Dichlorophenol mg/kg dry wt 3 <th></th>	
Dibenzo[a,h]anthracene mg/kg dry wt < 2 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluoranthene mg/kg dry wt < 1 < 0.270 Fluorene mg/kg dry wt < 1 < 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 1 < 0.270 2-Methylnaphthalene mg/kg dry wt < 1 < 0.270 Naphthalene mg/kg dry wt < 1 < 0.270 Naphthalene mg/kg dry wt < 1 < 0.270 Naphthalene mg/kg dry wt < 1 < 0.270 Phenanthrene mg/kg dry wt < 1 < 0.270 Pyrene mg/kg dry wt < 1 < 0.270 Phenols in SVOC Soil Samples by GC-MS 0.270 2-Chlorophenol mg/kg dry wt < 5 < 0.901 2-Chlorophenol mg/kg dry wt < 2 <	
Fluoranthene mg/kg dry wt < 1 < 0.270 Fluorene mg/kg dry wt < 1 < 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 2 < 0.270 Indeno(1,2,3-c,d)pyrene mg/kg dry wt < 1 < 0.270 2-Methylnaphthalene mg/kg dry wt < 1 < 0.270 Naphthalene mg/kg dry wt < 1 < 0.270 Phenanthrene mg/kg dry wt < 1 < 0.270 Pyrene mg/kg dry wt < 1 < 0.270 Phenols in SVOC Soil Samples by GC-MS 0.270 2-Chloro-3-methylphenol mg/kg dry wt < 5 < 0.901 2-Chlorophenol mg/kg dry wt < 5 < 0.901 2,4-Dichlorophenol mg/kg dry wt < 2 0.450 2,4-Dimethylphenol mg/kg dry wt < 3 < 0.450 3 & 4-Methylphenol (m- + p-cresol) mg/kg dry wt	
Fluorene mg/kg dry wt <	
Indeno(1,2,3-c,d)pyrenemg/kg dry wt<2<0.2702-Methylnaphthalenemg/kg dry wt<	
2-Methylnaphthalenemg/kg dry wt<10.270Naphthalenemg/kg dry wt<	
Naphthalene mg/kg dry wt <	
Phenanthrene mg/kg dry wt < 1 < 0.270 Pyrene mg/kg dry wt <	
Pyrene mg/kg dry wt < 1 < 0.270 Phenols in SVOC Soil Samples by GC-MS -	
Phenols in SVOC Soil Samples by GC-MS4-Chloro-3-methylphenolmg/kg dry wt< 5	
4-Chloro-3-methylphenol mg/kg dry wt < 5	
2-Chlorophenol mg/kg dry wt < 2 < 0.450 2,4-Dichlorophenol mg/kg dry wt <	
Z4-Dichlorophenol mg/kg dry wt < 2 < 0.450 2,4-Dimethylphenol mg/kg dry wt < 3	
2,4-Dimethylphenolmg/kg dry wt< 3< 0.4503 & 4-Methylphenol (m- + p-cresol)mg/kg dry wt1312.342	
3 & 4-Methylphenol (m- + p-cresol) mg/kg dry wt 131 2.342	
2-Methylphenol (o-Cresol) mg/kg dry wt < 2 < 0.450	
2-Nitrophenol mg/kg dry wt < 5 < 0.901	
Pentachlorophenol (PCP) mg/kg dry wt < 40 < 9.009	
Phenol mg/kg dry wt < 4 9.730	
2,4,5-Trichlorophenol mg/kg dry wt < 4 < 0.901	
2,4,6-Trichlorophenol mg/kg dry wt < 4 < 0.901	
Plasticisers in SVOC Soil Samples by GC-MS	
Bis(2-ethylhexyl)phthalate mg/kg dry wt < 8 < 2.703	
Butylbenzylphthalate mg/kg dry wt < 4 < 0.901	
Di(2-ethylhexyl)adipate mg/kg dry wt < 2 < 0.450	
Diethylphthalate mg/kg dry wt < 4 < 0.901	
Dimethylphthalate mg/kg dry wt < 4 < 0.901	
Di-n-butylphthalate mg/kg dry wt < 4 < 0.901	
Di-n-octylphthalate mg/kg dry wt < 4 < 0.901	
Other Halogenated compounds in SVOC Soil Samples by GC-MS	
1,2-Dichlorobenzene mg/kg dry wt < 4 < 0.901	
1,3-Dichlorobenzene mg/kg dry wt < 4 < 0.901	
1,4-Dichlorobenzene mg/kg dry wt < 4 < 0.901	
Hexachlorobutadiene mg/kg dry wt < 4 < 0.901	
Hexachloroethane mg/kg dry wt < 4 < 0.901	
1,2,4-Trichlorobenzene mg/kg dry wt < 2 < 0.450	
Other compounds in SVOC Soil Samples by GC-MS	
Benzyl alcohol mg/kg dry wt < 20 < 4.505	
Carbazole mg/kg dry wt < 2 < 0.450	
Dibenzofuran mg/kg dry wt < 2 < 0.450	
Isophorone mg/kg dry wt < 2 < 0.450	
Tributyl Tin Trace in Soil samples by GCMS	
Dibutyltin (as Sn) mg/kg dry wt < 0.03 < 0.054	
Monobutyltin (as Sn) mg/kg dry wt < 0.03	
Tributyltin (as Sn) mg/kg dry wt < 0.017 < 0.045	
Triphenyltin (as Sn) mg/kg dry wt < 0.014 < 0.036	